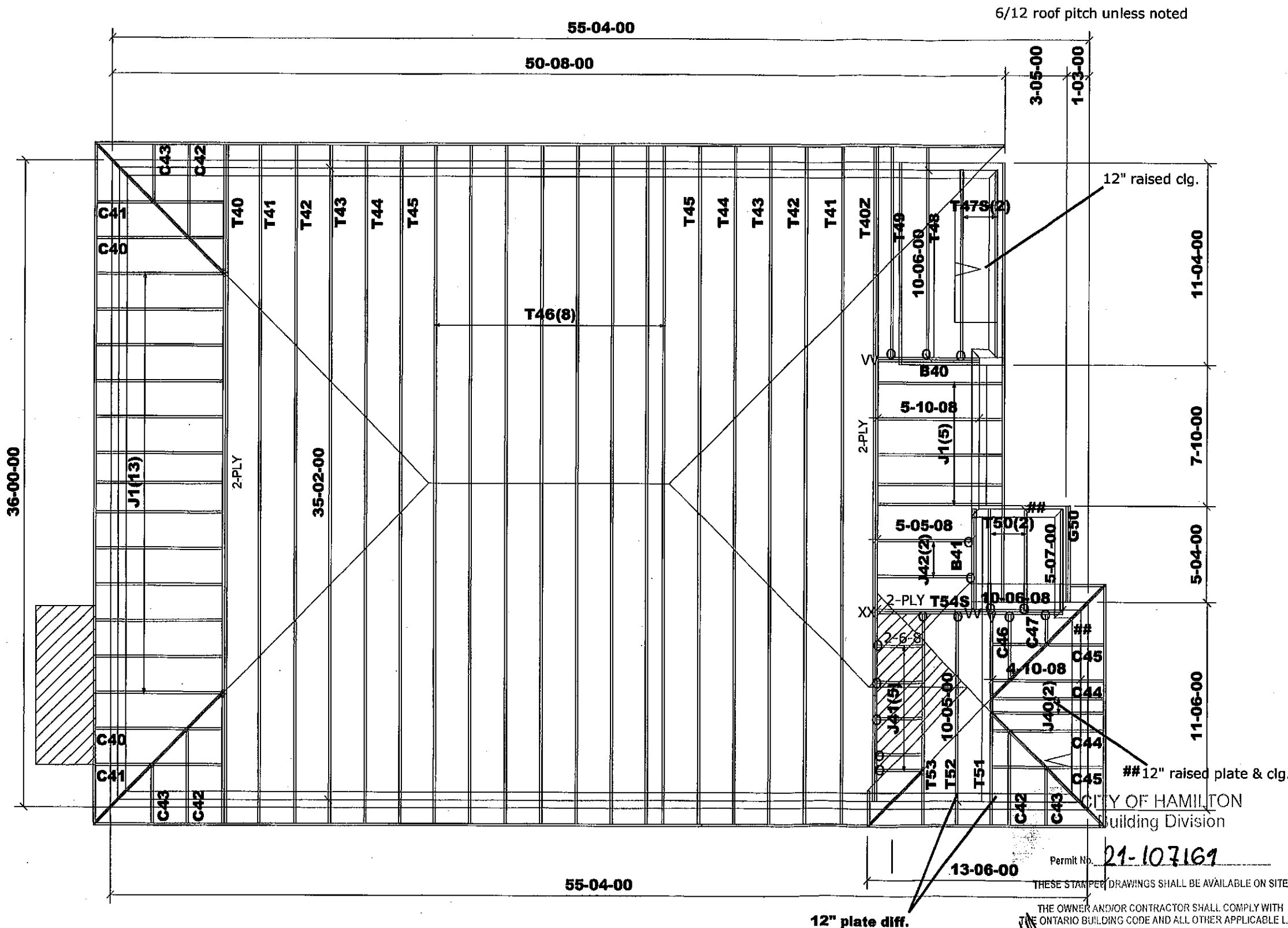




ASPHALT SHINGLES
FINISHED OVERHANG: 12"
2x6 EXTERIOR WALLS
2x6 FASCIA BOARD
HEEL: R.T.M.C.

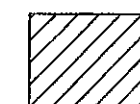
All conventional framing to conform with Part 9 of O.B.C. 2012 (2019 amendment). Roof rafters that cross over or meet trusses to be min. 2x4 SPF #2 @ 24" o/c with a vertical post to the truss at each cross point. Vertical posts longer than 6' to have lateral bracing so that the distance between the post 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)

BEAMS:
B40= B41=
2- 2x10 SPF #2

 DENOTES:
CONVENTIONAL
FRAMING

M13138



Job Track: 51225
Plan Log: 202419
Layout ID: 408224

Builder / Location:
GREEN PARK HOMES / WATERDOWN

Project: RUSSELL GARDENS PH.3

Date: 2020-04-27 Sales: Mario DiCano

Designer: JG

Model / Elevation:
MOUNTAINASH 6/3- 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.

FEB 26 2021

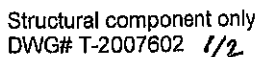
DATE

Mike ver 8.3.1.215

LOT 295



CONTINUED ON PAGE 2



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408222	T1	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TsfFoe31v6I zns11-Jm9J91AhZi22o2EEfINZsEz3HTH?mEdCAUuvczMFIJ

PLATES (Table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	MT20	5.0	6.0	1.50	3.00
C	TTWW-m	MT20	7.0	8.0	Edge	2.50
D, F, I						
D	TMWV-l	MT20	4.0	4.0		
E	TMW-w	MT20	2.0	4.0		
G	TS-l	MT20	3.0	6.0		
H	TMW-w	MT20	2.0	4.0		
J	TTWW-m	MT20	7.0	8.0	Edge	2.50
K	TMWV-p	MT20	5.0	6.0	1.50	3.00
M	BMV-l-p	MT20	3.0	6.0		
N, O, T, U						
N	BMWV-l	MT20	5.0	6.0		
P	BS-l	MT20	5.0	6.0		
Q	BMWVW-l	MT20	5.0	8.0		
R	BMWVW-l	MT20	5.0	8.0		
S	BS-l	MT20	5.0	6.0		
V	BMV-l-p	MT20	3.0	6.0		

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	FACTORED LC1 MAX (LC1)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS1 (LC1)
FR-TO		FROM	TO	LENGTH	FR-TO		
AR-AS	0 3261	-18.5	-18.5 0.25 (1)	10.00			
AS-N	0 3261	-18.5	-18.5 0.25 (1)	10.00			
N-AT	0 0	-18.5	-18.5 0.04 (4)	10.00			
AT-AU	0 0	-18.5	-18.5 0.04 (4)	10.00			
AU-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	4-0-10	-49	-55	---	FRONT	VERT	DEAD	---	C1
C	4-0-10	-117	-117	---	FRONT	VERT	TOTAL	---	C1
C	4-0-10	-254	-254	---	FRONT	VERT	SNOW	---	C1
G	17-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
I	25-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
J	31-1-6	-49	-55	---	FRONT	VERT	DEAD	---	C1
J	31-1-6	-254	-254	---	FRONT	VERT	SNOW	---	C1
O	25-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
S	11-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
U	3-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
W	5-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
X	7-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Y	9-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Z	11-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AA	13-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AB	15-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AC	19-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AD	21-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AE	23-11-4	-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	5-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AJ	7-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AK	9-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AL	13-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AM	15-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AN	17-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AO	19-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AP	21-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AQ	23-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AR	27-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AS	29-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AT	31-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AU	33-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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



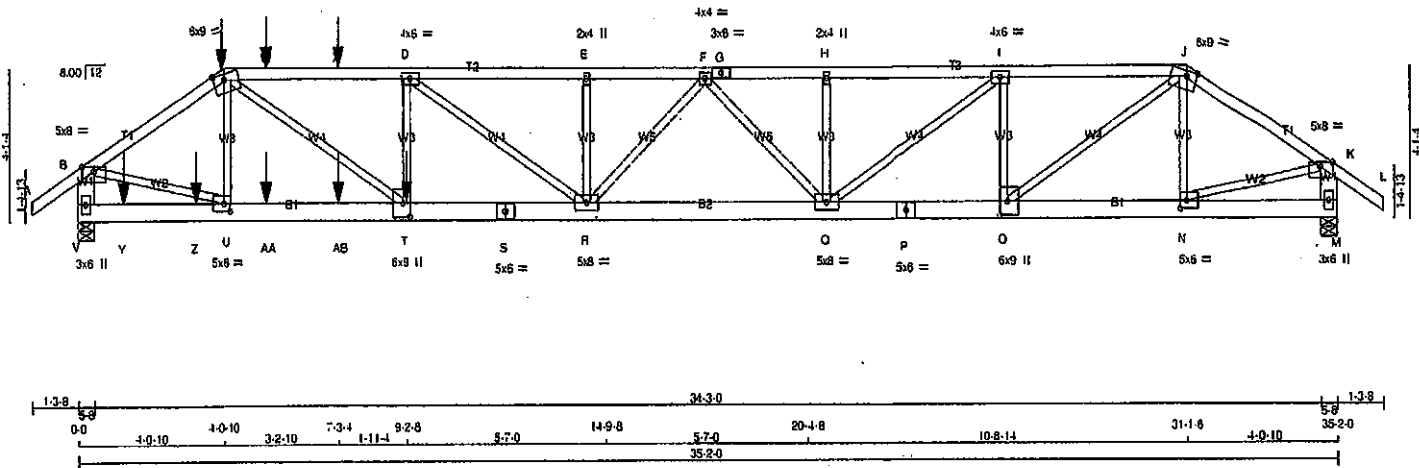
Structural component only
DWG# T-2007602 4/2

JOB NAME 408222	TRUSS NAME T1Z	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCub\NVR6Tst\Fee31v6\ zns11-nvjhMNBKcAvHCpQKtuoORWDosnNkApnRqDRR2zMFis

1-3-8 0-0 4-0-10 5-3-4 7-3-4 9-3-12 14-9-8 2-9-8 17-7-0 2-9-8 20-4-8 5-5-12 25-10-4 5-3-2 31-1-6 4-0-10 35-2-0 1-3-8
Scale = 1:57.6



TOTAL WEIGHT = 2 X 161 = 323 lb (M)

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
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	2x6	DRY	No.2
M - K	2x6	DRY	No.2
V - S	2x6	DRY	No.2
S - P	2x6	DRY	No.2
P - M	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 - C	12	SIDE(61.0)
C - G	12	SIDE(61.0)
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	SIDE(183.1)
S - P	12	TOP
P - M	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	8	SIDE(385.4)
D - T	4	
I - O	4	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
V	4215	0	4215	0	5-8
M	2722	0	2722	0	5-8

UNFACTORED REACTIONS		1ST LOASE	MAX. MIN. COMPONENT REACTIONS	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED	SNOW						
V	2974	1987	0	0	0	0	987	0
M	1921	1283	0	0	0	0	638	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 = 3.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX.	MEMB.	MAX. FACTORED	WEBS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX.	MEMB.	MAX. FACTORED
FR-TO		(LBS)	(PLF)	FROM TO		CS1 (LC)	UNBRAC	LENGTH	FR-TO		(LBS)	(PLF)	FROM TO		CS1 (LC)	UNBRAC	LENGTH	FR-TO
A-B	0 35	-91.8	-91.8	0.07 (1)	10.00	U-C	-783	0	0.10 (1)									
B-C	-5115	0	-91.8	-91.8	0.28 (1)	4.07	C-T	0 4617	0.60 (1)									
C-W	-8135	0	-91.8	-91.8	0.64 (1)	3.00	T-D	-622	0	0.08 (1)								
W-X	-8135	0	-91.8	-91.8	0.64 (1)	3.00	O-I	-1797	0	0.23 (1)								
X-D	-8135	0	-91.8	-91.8	0.64 (1)	3.00	O-J	0 3211	0.40 (1)									
D-E	-8106	0	-91.8	-91.8	0.59 (1)	3.05	N-J	-512	0	0.06 (1)								
E-F	-8106	0	-91.8	-91.8	0.32 (1)	3.28	B-U	0 4370	0.54 (1)									
F-G	-6928	0	-91.8	-91.8	0.28 (1)	3.57	N-K	0 2693	0.33 (1)									
G-H	-6928	0	-91.8	-91.8	0.26 (1)	3.57	O-I	0 2133	0.28 (1)									
H-I	-6928	0	-91.8	-91.8	0.45 (1)	3.42	D-R	-37 24	0.01 (1)									
I-J	-5210	0	-91.8	-91.8	0.34 (1)	3.99	C-H	-365	0	0.05 (1)								
J-K	-3153	0	-91.8	-91.8	0.19 (1)	5.04	R-E	-343	0	0.04 (1)								
K-L	0 35	-91.8	-91.8	0.07 (1)	10.00	R-F	0 692	0	0.09 (1)									
V-B	-4180	0	0.0	0.0	0.15 (1)	8.98	F-Q	-1081	0	0.23 (1)								
M-K	-2686	0	0.0	0.0	0.10 (1)	7.81												
V-Y	0 0	-18.5	-18.5	0.05 (4)	10.00													
Y-Z	0 0	-18.5	-18.5	0.05 (4)	10.00													
Z-U	0 0	-18.5	-18.5	0.05 (4)	10.00													
U-AA	0 4227	-18.5	-18.5	0.35 (1)	10.00													
AA-AB	0 4227	-18.5	-18.5	0.35 (1)	10.00													
AB-T	0 4227	-18.5	-18.5	0.35 (1)	10.00													
T-S	0 8135	-18.5	-18.5	0.61 (1)	10.00													
S-R	0 8135	-18.5	-18.5	0.61 (1)	10.00													
R-Q	0 7845	-18.5	-18.5	0.55 (1)	10.00													
Q-P	0 5210	-18.5	-18.5	0.38 (1)	10.00													
P-O	0 5210	-18.5	-18.5	0.38 (1)	10.00													
O-N	0 2604	-18.5	-18.5	0.19 (1)	10.00													
N-M	0 0	-18.5	-18.5	0.03 (4)	10.00													

FACTORED CONCENTRATED LOADS (LBS)		LOC.	LC1	MAX.	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
JT										
C	4-8-10	-49	-55	---	---	FRONT	VERT	DEAD	---	C1
C	4-8-10	254	-254	---	---	FRONT	VERT	SNOW	---	C1
T	9-2-8	-2179	-2179	---	---	BACK	VERT	TOTAL	---	C1
W	5-3-4	-110	-110	---	---	BACK	VERT	TOTAL	---	C1
X	7-3-4	-110	-110	---	---	BACK	VERT	TOTAL	---	C1
Y	1-3-4	-26	-26	---	---	BACK	VERT	TOTAL	---	C1
Z	3-3-4	-26	-26	---	---	BACK	VERT	TOTAL	---	C1
AA	5-3-4	-26	-26	---	---	BACK	VERT	TOTAL	---	C1
AB	7-3-4	-26	-26	---	---	BACK	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 = 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, NBCC 2010, NBCC 2015

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

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

ALLOWABLE DEFL.(LL) = L 360 (1.17)
CALCULATED VERT. DEFL.(LL) = L 989 (0.24")
ALLOWABLE DEFL.(TL) = L 360 (1.17)
CALCULATED VERT. DEFL.(TL) = L 954 (0.44")

CS1: TC=0.64(1.00 (C-D:1) , BC=0.61 1.00 (R-T:1) , WB=0.60(1.00 (C-T:1) , SSI=0.17(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 (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 (J) (INPUT = 0.90)
JSI METAL = 0.77 (P) (INPUT = 1.00)



Structural component only
DWG# T-2007603 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408222	T1Z	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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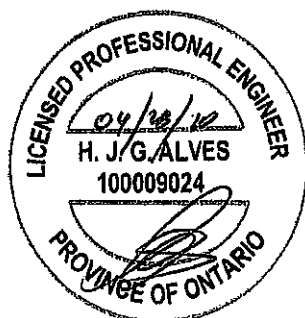
PLATES (Tables in Inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	Edge	
C	TTWW-m	MT20	8.0	9.0	1.75	3.50
D	TMWW-l	MT20	4.0	6.0		
E	TMW-w	MT20	2.0	4.0		
F	TMWW-l	MT20	4.0	4.0		
G	TS-l	MT20	3.0	6.0		
H	TMW-w	MT20	2.0	4.0		
I	TMWW-l	MT20	4.0	6.0		
J	TTWW-m	MT20	8.0	9.0	1.75	3.50
K	TMVW-p	MT20	5.0	8.0	Edge	
M	BMVl+p	MT20	3.0	6.0		
N	BMWW-l	MT20	5.0	6.0	2.50	2.25
O	BMWW-l	MT20	8.0	9.0	4.50	2.50
P	BS-l	MT20	5.0	8.0		
Q	BMWW-l	MT20	5.0	8.0		
R	BMWW-l	MT20	5.0	8.0		
S	BS-l	MT20	5.0	6.0		
T	BMWW-l	MT20	8.0	9.0	4.50	2.50
U	BMWW-l	MT20	5.0	6.0	2.50	2.25
V	BMVl+p	MT20	3.0	6.0		

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

CONNECTION REQUIREMENTS

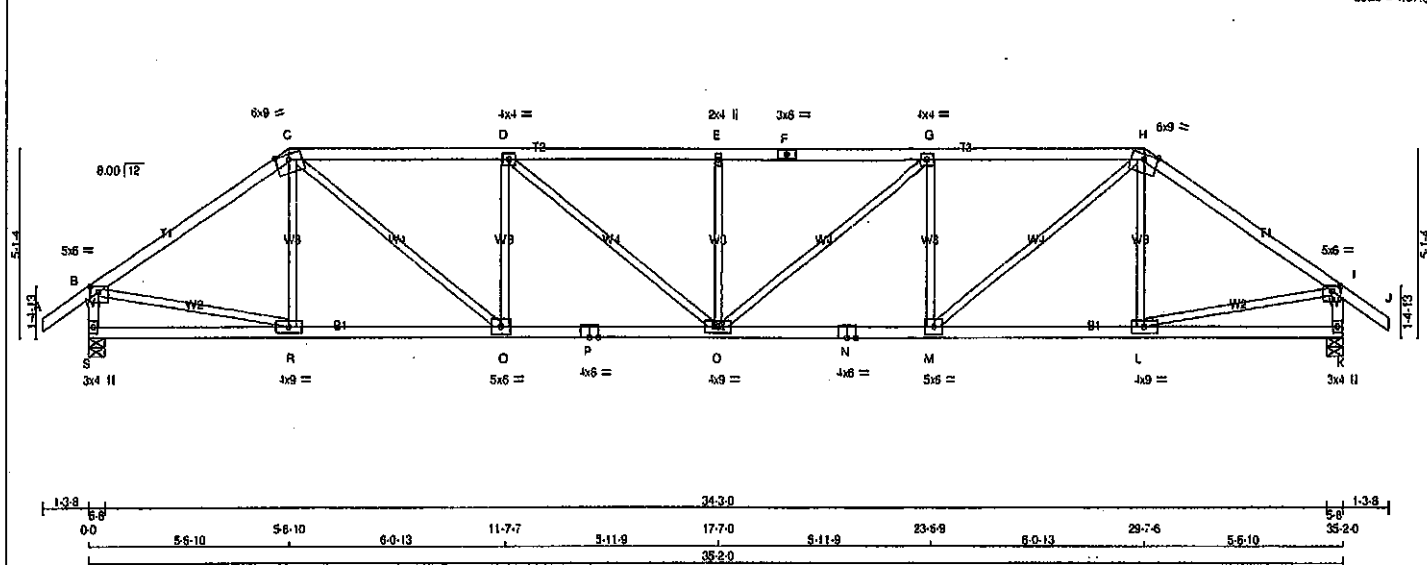
- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2007603 4/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ORWG NO.
408222	T2	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 09:00:06 2020 Page 1
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 35-20 35-58 1-3-8
 Scale = 1:57.6



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 is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-p	MT20	5.0	8.0	1.75 2.75
C	TTWW-m	MT20	6.0	9.0	Edge
D	TMWW-i	MT20	4.0	4.0	
E	TMW-w	MT20	2.0	4.0	
F	TS-i	MT20	3.0	6.0	
G	TMWW-i	MT20	4.0	4.0	
H	TTWW-m	MT20	6.0	9.0	Edge
I	TMVW-p	MT20	5.0	8.0	1.75 2.75
K	BMVW-i	MT20	3.0	4.0	
L	BMWW-i	MT20	4.0	9.0	
M	BMWW-i	MT20	5.0	6.0	
N	BS-i	MT20	4.0	6.0	
O	BMWWW-i	MT20	4.0	9.0	
P	BS-i	MT20	4.0	6.0	
Q	BMWW-i	MT20	5.0	6.0	
R	BMWW-i	MT20	4.0	9.0	
S	BMVW-i	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		
			GROSS REACTION	BRG	BRG		
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
S	2065	0	2065	0	5-8	5-8	
K	2065	0	2065	0	5-8	5-8	

UNFACTORED REACTIONS							
	1ST LOASE	MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
S	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) 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					WEBS				
MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD LC1	MAX. MAX. MEMB.	MAX. FACTORED	MEMB.	FORCE	MAX	
	(LBS)	(PLF)	CS1(LC)	UNBRAC	(LBS)		CS1(LC)		
FR-TO		FROM TO		LENGTH	FR-TO				
A-B	0 35	-91.8 -91.8 0.12 (1)	10.00	R-C	-243 10	0.09 (1)			
B-C	-2296 0	-91.8 -91.8 0.70 (1)	3.78	C-Q	0 1670	0.38 (1)			
C-D	-3213 0	-91.8 -91.8 0.80 (1)	3.19	D-Q	-929 0	0.38 (1)			
D-E	-3594 0	-91.8 -91.8 0.88 (1)	2.97	Q-O	0 490	0.11 (1)			
E-F	-3594 0	-91.8 -91.8 0.88 (1)	2.97	O-G	-505 0	0.19 (1)			
F-G	-3594 0	-91.8 -91.8 0.88 (1)	2.97	G-Q	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 1670	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 1903	-18.5 -18.5 0.39 (1)	10.00						
O-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 0.58 (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						

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

155% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 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")

CS1: TO=0.86/1.00 (D-E:1), BC=0.58/1.00 (M-O:1), WB=0.44/1.00 (L-I: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 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.87 (I) (INPUT = 0.90)
 JSI METAL = 0.74 (I) (INPUT = 1.00)



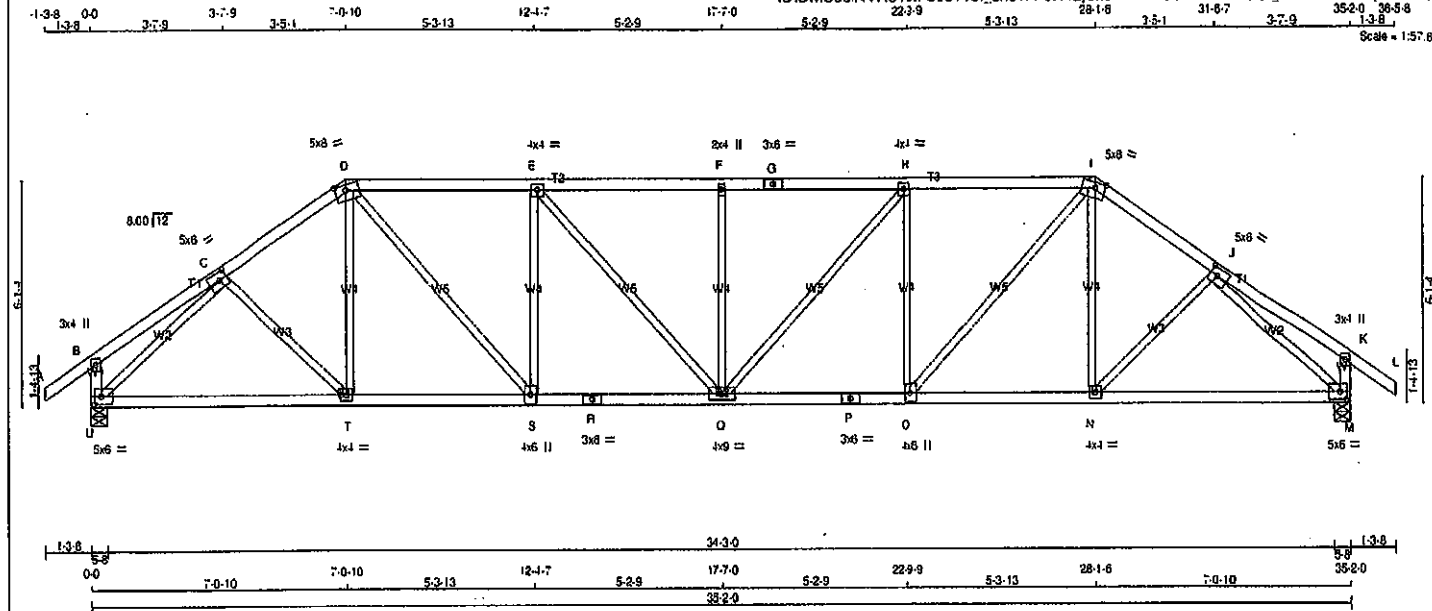
Structural component only
 DWG# T-2007604

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408222	T3	2	1	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TstFoe31v61_zns11-F8H4ajCx5wlmvMOcuAP1x2QrG_VTXHwUz? UzMFid



TOTAL WEIGHT = 2 X 151 = 303 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF	
D - G	2x4	DRY	No.2	SPF	
G - I	2x4	DRY	No.2	SPF	
I - L	2x4	DRY	No.2	SPF	
L - M	2x4	DRY	No.2	SPF	
M - K	2x4	DRY	No.2	SPF	
K - R	2x4	DRY	No.2	SPF	
R - P	2x4	DRY	No.2	SPF	
P - M	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	TMV+p	MT20	3.0	4.0		
C	TMWW-t	MT20	5.0	6.0	2.50	2.50
D	TTWW-m	MT20	5.0	8.0	1.75	3.50
E	TMWW-l	MT20	4.0	4.0		
F	TMWW-w	MT20	2.0	4.0		
G	TS-t	MT20	3.0	6.0		
H	TMWW-t	MT20	4.0	4.0		
I	TTWW-m	MT20	5.0	8.0	1.75	3.50
J	TMWW-l	MT20	5.0	6.0	2.50	2.50
K	TMV+p	MT20	3.0	4.0		
M	BMVW1-t	MT20	5.0	6.0	2.50	2.25
N	BMVW1-t	MT20	4.0	4.0		
O	BMVW1-t	MT20	4.0	6.0		
P	BS-t	MT20	3.0	6.0		
Q	BMVW1-t	MT20	4.0	6.0		
R	BS-t	MT20	3.0	6.0		
S	BMVW1-t	MT20	4.0	6.0		
T	BMVW1-t	MT20	4.0	4.0		
U	BMVW1-t	MT20	5.0	6.0	2.50	2.25

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
U	2065	0	2065	0
M	2065	0	2065	0

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
U	1458	970	0	0	0
M	1458	970	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			FACTORED				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)		VERT. LOAD (PLF)	LOAD LC1 (LBS)	MAX. FACTORED CSI (LBS)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LBS)	
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	0.16 (1)	10.00	T-D	0	90	0.03 (4)
C-D	-2305	0	-91.8	-91.8	0.23 (1)	4.31	D-S	0	1218	0.27 (1)
D-E	-2723	0	-91.8	-91.8	0.34 (1)	3.69	S-E	-814	0	0.48 (1)
E-F	-2986	0	-91.8	-91.8	0.58 (1)	3.53	E-Q	0	363	0.08 (1)
F-G	-2986	0	-91.8	-91.8	0.58 (1)	3.53	Q-F	-440	0	0.26 (1)
G-H	-2986	0	-91.8	-91.8	0.58 (1)	3.53	O-H	0	363	0.08 (1)
H-I	-2723	0	-91.8	-91.8	0.54 (1)	3.69	O-H	-814	0	0.48 (1)
I-J	-2305	0	-91.8	-91.8	0.23 (1)	4.31	O-I	0	1218	0.27 (1)
J-K	0	18	-91.8	-91.8	0.16 (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	135	0.03 (4)
U-B	-255	0	0.0	0.0	0.03 (1)	7.81	U-C	-2514	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	1801	-18.5	-18.5	0.40 (1)	10.00				
T-S	0	1900	-18.5	-18.5	0.41 (1)	10.00				
S-R	0	2723	-18.5	-18.5	0.49 (1)	10.00				
R-O	0	2723	-18.5	-18.5	0.49 (1)	10.00				
O-P	0	2723	-18.5	-18.5	0.49 (1)	10.00				
P-O	0	2723	-18.5	-18.5	0.49 (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	= 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 CBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (1.17")
CALCULATED VERT. DEFL. (LL) = L/999 (0.16")
ALLOWABLE DEFL. (TL) = L/360 (1.17")
CALCULATED VERT. DEFL. (TL) = L/999 (0.29")

CSI: TO=0.58/1.00 (E-F:1), BC=0.49/1.00 (O-Q:1), WB=0.97/1.00 (J-M:1), SS=0.23/1.00 (D-E:1)

DOL LUMBER=1.00 NAIL=1.00 L8 BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

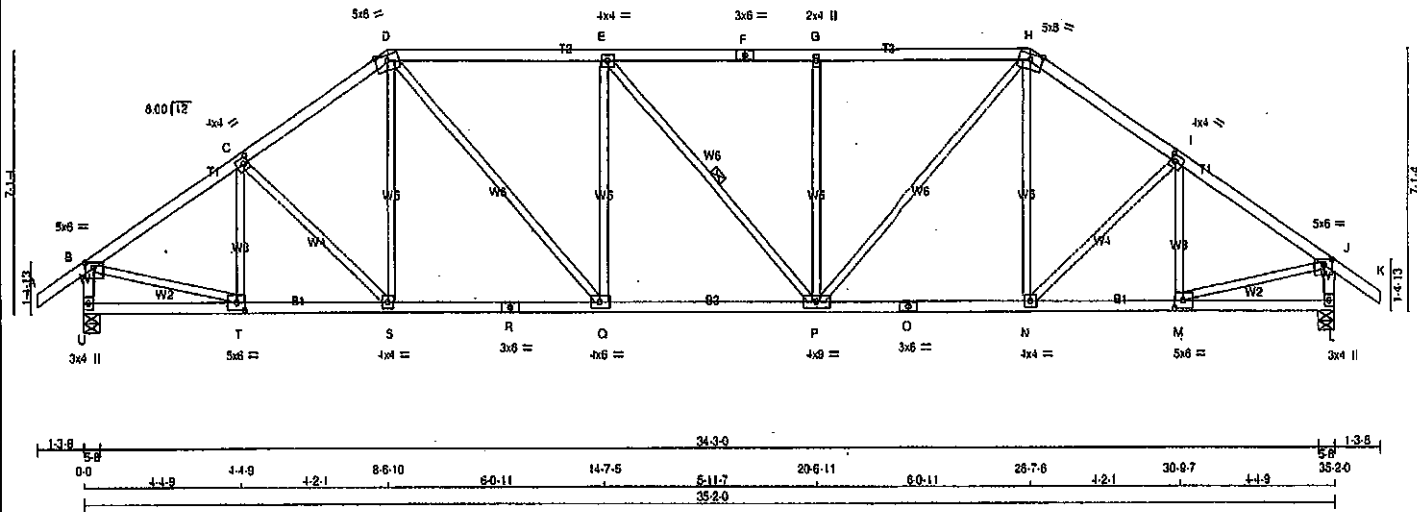
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.90 (M) (INPUT = 0.90)
JSI METAL = 0.84 (P) (INPUT = 1.00)



Structural component only
DWG# T-2007605

JOB NAME 408222	TRUSS NAME T4	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. Tue Apr 28 09:00:07 2020 Page 1
-1-3-8 0-0 4-1-9 4-1-9 4-2-1 8-6-10 5-0-11 14-7-5 5-11-7 20-6-11 5-0-11 26-7-6 4-2-1 30-9-7 4-1-9 35-2-0 1-3-8 1-3-8 0-0 4-1-9 4-1-9 4-2-1 8-6-10 5-0-11 14-7-5 5-11-7 20-6-11 5-0-11 26-7-6 4-2-1 30-9-7 4-1-9 35-2-0 1-3-8 Scale = 1:57.6				ID:DMCubINVR6TsFoe31v6I_zns1HjLrSn2CsZsDQdXWzpsuWGTsbZgK2C5T4u8YVwWzMFic	



TOTAL WEIGHT = 2 X 156 = 309 lb (M)

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
U - B	2x4	DRY No.2	SPF
L - J	2x4	DRY No.2	SPF
U - R	2x4	DRY No.2	SPF
R - O	2x4	DRY No.2	SPF
O - L	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
A	TMWW-p	MT20	5.0	6.0 1.75 2.75
C	TMWW-i	MT20	4.0	4.0 2.00 1.50
D	TTWW-m	MT20	5.0	8.0 Edge
E	TMWW-i	MT20	4.0	4.0
F	TS-i	MT20	3.0	6.0
G	TMWW-m	MT20	2.0	4.0
H	TTWW-m	MT20	6.0	8.0 Edge
I	TMWW-i	MT20	4.0	4.0 2.00 1.50
J	TMWW-p	MT20	5.0	6.0 1.75 2.75
L	BMV1-p	MT20	3.0	4.0
M	BMWW-i	MT20	5.0	6.0 2.50 2.75
N	BMWW-i	MT20	4.0	4.0
O	BS-i	MT20	3.0	6.0
P	BMWW-i	MT20	4.0	9.0
Q	BMWW-i	MT20	4.0	6.0
R	BS-i	MT20	3.0	6.0
S	BMWW-i	MT20	4.0	4.0
T	BMWW-i	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 GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT IN-SX
U	2065	0	2065	0	5-8
L	2065	0	2065	0	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
U	1458	970	0	0	0	0	488	0
L	1458	970	0	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 PERMETER 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		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC2)	MAX. FACTORED VERT. LOAD (LC3)	MAX. FACTORED VERT. LOAD (LC4)	MAX. FACTORED VERT. LOAD (LC5)	MAX. FACTORED VERT. LOAD (LC6)	MAX. FACTORED VERT. LOAD (LC7)	MAX. FACTORED VERT. LOAD (LC8)	MAX. FACTORED VERT. LOAD (LC9)	MAX. FACTORED VERT. LOAD (LC10)
MEMB.	FR-TO												
A-B	0 35	-91.8	-91.8	0.12 (1)	10.00	T-C	-397	0	0.11 (1)				
B-C	-2289	0	-91.8	-91.8	0.37 (1)	4.19	C-S	-78	0	0.05 (1)			
C-D	-2254	0	-91.8	-91.8	0.36 (1)	4.21	S-D	0	155	0.04 (4)			
D-E	-2485	0	-91.8	-91.8	0.64 (1)	3.72	D-O	0	949	0.21 (1)			
E-F	-2483	0	-91.8	-91.8	0.64 (1)	3.72	O-E	-597	0	0.52 (1)			
F-G	-2483	0	-91.8	-91.8	0.64 (1)	3.72	E-P	-2	0	0.00 (1)			
G-H	-2483	0	-91.8	-91.8	0.63 (1)	3.74	P-G	-597	0	0.52 (1)			
H-I	-2254	0	-91.8	-91.8	0.36 (1)	4.21	I-H	0	947	0.21 (1)			
I-J	-2269	0	-91.8	-91.8	0.37 (1)	4.19	N-H	0	157	0.04 (4)			
J-K	0 35	-91.8	-91.8	0.12 (1)	10.00	N-I	-78	0	0.05 (1)				
U-B	-2027	0	0.0	0.0	0.21 (1)	5.94	M-I	-397	0	0.11 (1)			
L-J	-2028	0	0.0	0.0	0.21 (1)	5.94	B-T	0	1935	0.44 (1)			
U-T	0 0	-18.5	-18.5	0.08 (4)	10.00	M-J	0	1935	0.44 (1)				
T-S	0 1908	-18.5	-18.5	0.37 (1)	10.00								
S-R	0 1853	-18.5	-18.5	0.36 (1)	10.00								
R-Q	0 1853	-18.5	-18.5	0.36 (1)	10.00								
Q-P	0 2485	-18.5	-18.5	0.47 (1)	10.00								
P-O	0 1854	-18.5	-18.5	0.36 (1)	10.00								
O-N	0 1854	-18.5	-18.5	0.36 (1)	10.00								
N-M	0 1908	-18.5	-18.5	0.37 (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 = 8.0 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 BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/969 (0.12")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.24")

CSI: TC=0.64/1.00 (D-E:1), BC=0.47/1.00 (P-Q:1), WB=0.52/1.00 (E-Q: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 1687 788 1987 1656

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-2007606

JOB NAME 408222	TRUSS NAME T5	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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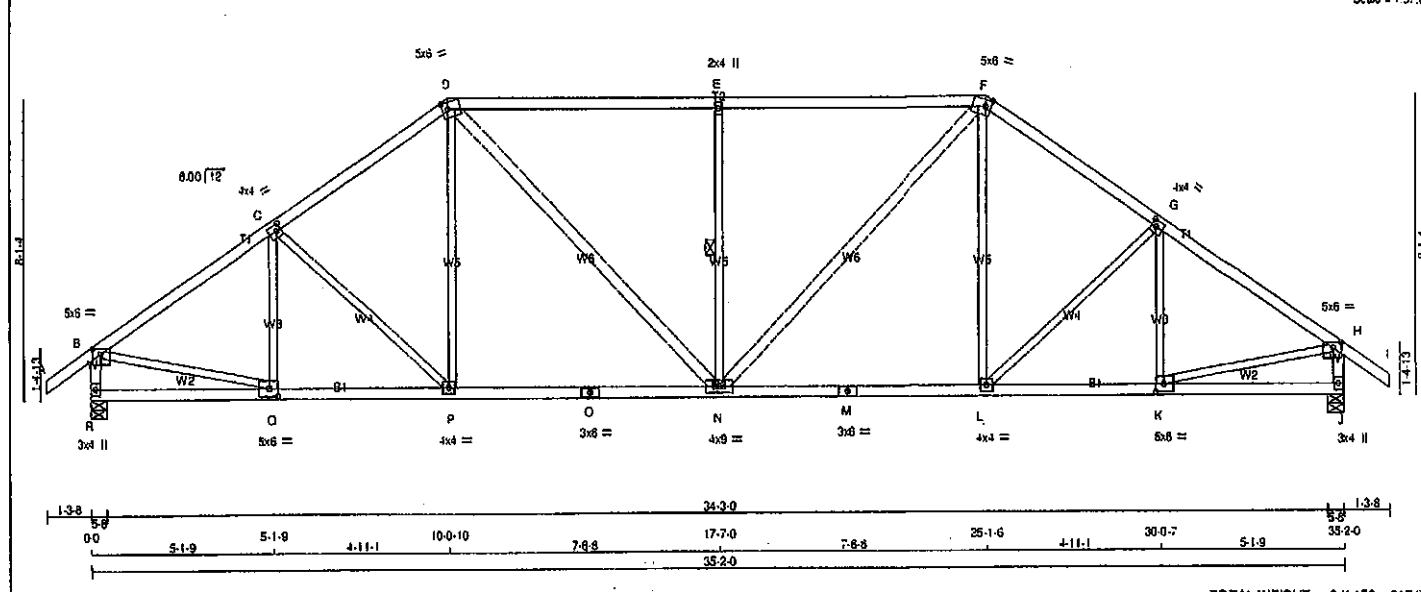
Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TsFoe31v6l zns11-BXPq ODBdXYU8Y7?bRV048IM4gExZrD7oSS52NmF1b

28-1-0 4-11-1 30-0-7 5-1-9 1-3-8

Scale = 1:57.6



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - F	2x4	DRY No.2	SPF
F - I	2x4	DRY No.2	SPF
R - B	2x4	DRY No.2	SPF
J - H	2x4	DRY No.2	SPF
R - 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 is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMW-p	MT20	5.0	8.0	1.75	2.75
C	TMWW-l	MT20	4.0	4.0	2.00	1.50
D	TTWW-m	MT20	5.0	8.0	2.25	1.75
E	TMW-w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	8.0	2.25	1.75
G	TMWW-l	MT20	4.0	4.0	2.00	1.50
H	TMW-p	MT20	5.0	8.0	1.75	2.75
J	BMV-l+p	MT20	3.0	4.0		
K	BMWW-l	MT20	5.0	8.0	2.50	2.75
L	BMWW-l	MT20	4.0	4.0		
M	BS-l	MT20	3.0	6.0		
N	BMWW-l	MT20	4.0	4.0		
O	BS-l	MT20	3.0	6.0		
P	BMWW-l	MT20	4.0	4.0		
Q	BMWW-l	MT20	5.0	8.0	2.50	2.75
R	BMV-l+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
R	2065 0	2065 0	5-8	5-8
J	2065 0	2065 0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	WIND	DEAD	SOIL
R	1458	970 0	0 0	488 0	0 0
J	1458	970 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)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO				
A-B	0 35	-91.8 -91.8 0.12 (1)	10.00	0 0
B-C	-2317 0	-91.8 -91.8 0.38 (1)	4.16	0 0
C-D	-2185 0	-91.8 -91.8 0.37 (1)	4.28	0 268
D-E	-2274 0	-91.8 -91.8 0.81 (1)	3.47	0 691
E-F	-2274 0	-91.8 -91.8 0.81 (1)	3.47	0 691
F-G	-2185 0	-91.8 -91.8 0.37 (1)	4.28	0 691
G-H	-2317 0	-91.8 -91.8 0.38 (1)	4.16	0 268
H-I	0 35	-91.8 -91.8 0.12 (1)	10.00	0 0
I-J	-2022 0	0.0 0.0 0.21 (1)	5.94	0 321
J-K	-2022 0	0.0 0.0 0.21 (1)	5.94	0 1995
K-H	0 0	-18.5 -18.5 0.10 (4)	10.00	0 1995
R-Q	0 0	-18.5 -18.5 0.10 (4)	10.00	0 1995
Q-P	0 1953	-18.5 -18.5 0.41 (1)	10.00	0 1995
P-O	0 1794	-18.5 -18.5 0.41 (1)	10.00	0 1995
O-N	0 1794	-18.5 -18.5 0.41 (1)	10.00	0 1995
N-M	0 1794	-18.5 -18.5 0.41 (1)	10.00	0 1995
M-L	0 1794	-18.5 -18.5 0.41 (1)	10.00	0 1995
L-K	0 1953	-18.5 -18.5 0.41 (1)	10.00	0 1995
K-J	0 0	-18.5 -18.5 0.10 (4)	10.00	0 1995

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF

DL = 8.0 PSF

BDT 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 8.09/12

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 088-14
- TPIC 2011, TPIC 2014

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CALCULATED VERT. DEFL.(LL) = L/989 (0.11')

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

CALCULATED VERT. DEFL.(TL) = L/999 (0.22')

CSI: TC=0.81 (1.00 (E-F:1), BC=0.41 (1.00 (L-N:1), WB=0.45 (1.00 (H-K:1), SS=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

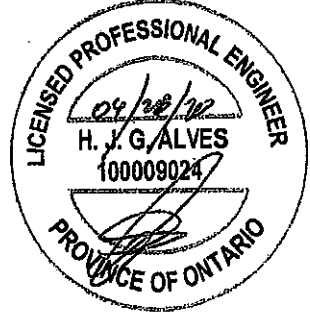
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL=0.64 (M) (INPUT = 1.00)



Structural component only
DWG# T-2007607

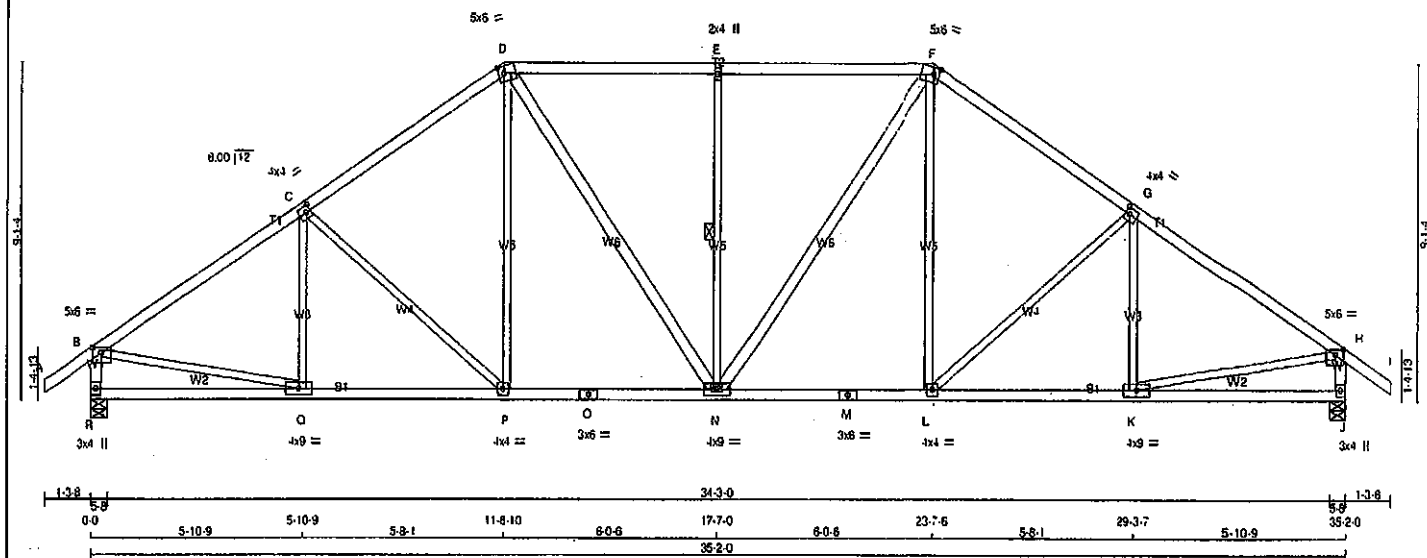
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408222	T6	2	1	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TsfFoe31v6I_zns11-fjyCCkEpOrgLmp6BZlykZHqkU0ngD1MLSflapzMFla

1-3.8 0-0 5-10.9 5-10.9 5-8.1 11-4-10 6-0.6 17-7-0 6-0.6 23-7-6 5-8.1 29-3-7 5-10.9 1-3.8
1-3.8 0-0 5-10.9 5-10.9 5-8.1 11-4-10 6-0.6 17-7-0 6-0.6 23-7-6 5-8.1 29-3-7 5-10.9 1-3.8
Scale = 1:57.6



TOTAL WEIGHT = 2 X 165 = 329 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - I	2x4	DRY	No.2
I - B	2x4	DRY	No.2
B - H	2x4	DRY	No.2
H - 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 (tablets in inches)

JT	TYPE	PLATES	W.	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.75	2.75
C	TMVW-l	MT20	4.0	4.0	2.00	1.50
D	TTWW-m	MT20	5.0	6.0	2.25	2.00
E	TMVW-w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	6.0	2.25	2.00
G	TMVW-l	MT20	4.0	4.0	2.00	1.50
H	TMVW-p	MT20	5.0	6.0	1.75	2.75
J	BMVl-p	MT20	3.0	4.0		
K	BMVW-l	MT20	4.0	9.0		
L	BMVW-l	MT20	4.0	4.0		
N	BMVW-w	MT20	3.0	6.0		
O	BS-l	MT20	4.0	9.0		
P	BMVW-l	MT20	4.0	4.0		
Q	BMVW-l	MT20	4.0	9.0		
R	BMVl-p	MT20	3.0	4.0		

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQ'D
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	HORZ	DOWN	HORZ	UPLIFT
R	2065	0	2065	0
J	2065	0	2065	0

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS						
JT COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
R	1458	970	0	0	0	488	0
J	1458	970	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 = 3.98 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATEROALLY 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	LENGTH	FR-TO			
A-B	0.35	-91.8	-91.8 0.12 (1)	10.00	Q-C	-249 11 0.11 (1)	
B-C	-2348 0	-91.8	-91.8 0.52 (1)	3.99	C-P	-356 0 0.42 (1)	
C-D	-2095 0	-91.8	-91.8 0.48 (1)	4.22	P-D	0 341 0.08 (1)	
D-E	-1985 0	-91.8	-91.8 0.49 (1)	4.26	D-N	0 477 0.08 (1)	
E-F	-1985 0	-91.8	-91.8 0.49 (1)	4.28	N-E	-878 0 0.37 (1)	
F-G	-2095 0	-91.8	-91.8 0.48 (1)	4.22	N-F	0 477 0.08 (1)	
G-H	-2348 0	-91.8	-91.8 0.52 (1)	3.99	L-F	0 341 0.08 (1)	
H-I	0.35	-91.8	-91.8 0.12 (1)	10.00	L-G	-356 0 0.42 (1)	
R-B	-2018 0	0.0	0.0 0.21 (1)	5.94	K-G	-249 11 0.11 (1)	
J-H	-2018 0	0.0	0.0 0.21 (1)	5.94	B-Q	0 2014 0.45 (1)	
					K-H	0 2014 0.45 (1)	
R-Q	0 0	-18.5	-18.5 0.14 (4)	10.00			
Q-P	0 1960	-18.5	-18.5 0.39 (1)	10.00			
P-O	0 1716	-18.5	-18.5 0.34 (1)	10.00			
O-N	0 1716	-18.5	-18.5 0.34 (1)	10.00			
N-M	0 1716	-18.5	-18.5 0.34 (1)	10.00			
M-L	0 1716	-18.5	-18.5 0.34 (1)	10.00			
L-K	0 1981	-18.5	-18.5 0.39 (1)	10.00			
K-J	0 0	-18.5	-18.5 0.14 (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, 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

155 % 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 (0.10')
ALLOWABLE DEFL.(TL) = L/360 (1.17')
CALCULATED VERT. DEFL.(TL) = L/999 (0.19')

CSI: TC=0.52/1.00 (G-H:1), BC=0.39/1.00 (K-L:1),
WB=0.45/1.00 (H-K:1), SS=0.27/1.00 (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.

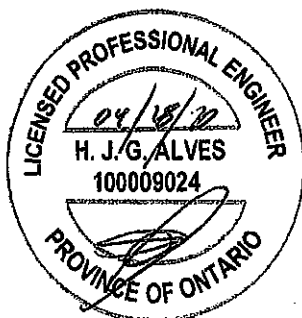
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (H) INPUT = 0.90
JSI METAL= 0.56 (M) INPUT = 1.00



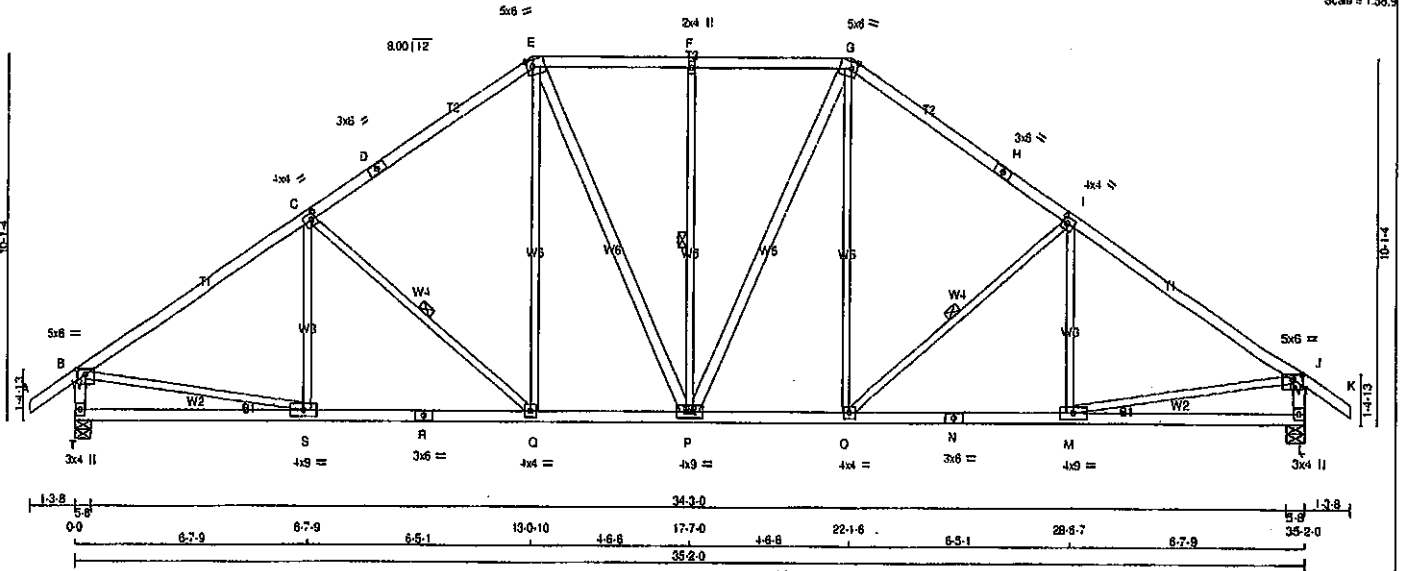
Structural component only
DWG# T-2007608

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408222	T7	6	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubNVR6TslFoe31v6l_zns11-7wWap4FR88oCOzhO70Uz5VD4qiMXPTGWa6xC7FzMFIZ

1-3.8 0-0 6-7.9 6-7.9 6-5.1 13-0-10 1-6.8 17-7-0 1-6.8 22-1-6 5-5.1 28-5-7 6-7.9 35-2-0 1-3.8
Scale = 1:58.9



TOTAL WEIGHT = 6 X 172 = 1030 lb (M/F)

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
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 - R	2x4	DRY	No.2
R - N	2x4	DRY	No.2
N - L	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
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 TMWW-p	MT20	5.0	8.0	1.75 2.75
C TMWW-t	MT20	4.0	4.0	2.00 1.50
D TS-t	MT20	3.0	8.0	
E TTWW-m	MT20	5.0	8.0	2.25 2.00
F TMWW-w	MT20	2.0	4.0	
G TTWW-m	MT20	5.0	8.0	2.25 2.00
H TS-t	MT20	3.0	8.0	
I TMWW-t	MT20	4.0	4.0	2.00 1.50
J TMWW-p	MT20	5.0	8.0	1.75 2.75
L BMV-t+p	MT20	3.0	4.0	
M BMWW-t	MT20	4.0	9.0	
N BS-t	MT20	3.0	8.0	
O BMWW-t	MT20	4.0	4.0	
P BMWW-t	MT20	4.0	9.0	
Q BMWW-t	MT20	4.0	4.0	
R BS-t	MT20	3.0	8.0	
S BMWW-t	MT20	4.0	9.0	
T 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		RECORD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	HORZ	BRG	UPLIFT	BRG	IN-SX
T	2065	0	0	2065	0	0	5-8	5-8	
L	2065	0	0	2065	0	0	5-8	5-8	

UNFACTORED REACTIONS		1ST CASE		MAX. MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
T	1458	970.0	0.0	0.0	0.0
L	1458	970.0	0.0	0.0	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-Q, F-P, I-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)

CHORDS		FACTORED		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. CS (L/C)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO	CS (L/C)	FR-TO	
A-B	0 35	-91.8 -91.8 0.12 (1)	10.00	S-C	-189 46
B-C	-2358 0	-91.8 -91.8 0.89 (1)	3.77	C-D	-484 0
C-D	-1995 0	-91.8 -91.8 0.82 (1)	4.11	E-P	0 415
D-E	-1995 0	-91.8 -91.8 0.82 (1)	4.11	E-P	0 315
E-F	-1781 0	-91.8 -91.8 0.27 (1)	4.77	F-F	-502 0
F-G	-1781 0	-91.8 -91.8 0.27 (1)	4.77	P-G	0 315
G-H	-1995 0	-91.8 -91.8 0.82 (1)	4.11	O-G	0 415
H-I	-1995 0	-91.8 -91.8 0.82 (1)	4.11	O-I	-484 0
I-J	-2358 0	-91.8 -91.8 0.89 (1)	3.77	M-I	-189 46
J-K	0 35	-91.8 -91.8 0.12 (1)	10.00	S-S	0 2021
T-B	-2014 0	0.0 0.0 0.21 (1)	5.95	M-J	0 2021
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 1995	-18.5 -18.5 0.42 (1)	10.00		
R-Q	0 1995	-18.5 -18.5 0.42 (1)	10.00		
Q-P	0 1629	-18.5 -18.5 0.32 (1)	10.00		
P-O	0 1629	-18.5 -18.5 0.32 (1)	10.00		
O-N	0 1995	-18.5 -18.5 0.42 (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		

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

LOADING IN PLAT SECTION BASED ON A SLOPE OF 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 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 (0.18")

CSI: TC=0.69-1.00 (I-J:1), BC=0.42-1.00 (M-O:1), WB=0.45-1.00 (J-M:1), SS=0.24-1.00 (I-J: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 1887 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

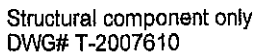
JSI GRIP = 0.87 (J) (INPUT = 0.90)
JSI METAL = 0.67 (N) (INPUT = 1.00)



Structural component only
DWG# T-2007609



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JSI GRIP= 0.90 (F) (INPUT = 0.90 )
JSI METAL= 0.68 (P) (INPUT = 1.00 )
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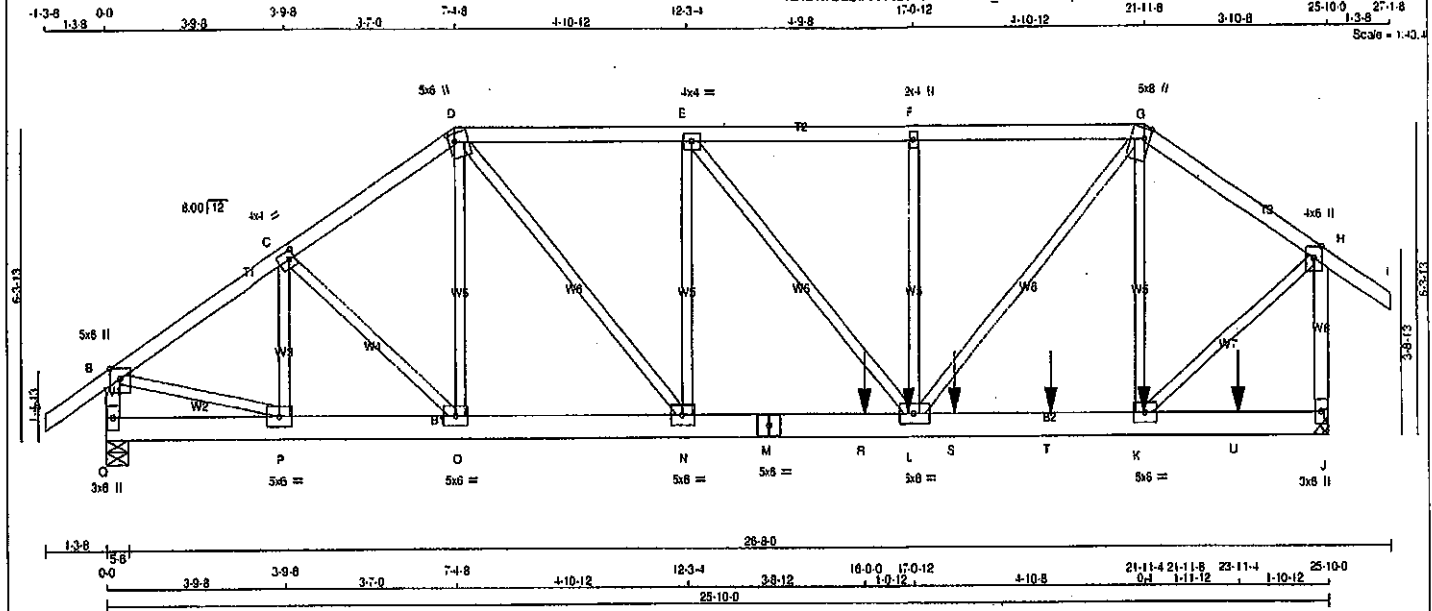


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408222	T9	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:DMCubINVR8TsFoe31vbl_zns11-b64ydQG4wSx377Gah?CeimKBHhB8zlpmqmizMFIY



TOTAL WEIGHT = 2 X 136 = 271 lb

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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-D 1 12	TOP	
D-G 1 12	TOP	
G-I 1 12	TOP	
Q-B 1 12	TOP	
J-H 1 12	TOP	
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
Q-M 2 12	TOP	
M-J 2 12	SIDE (183.1)	
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1 6		

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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

BEARINGS							
	FACTORED	GROSS REACTION	MAXIMUM FACTORED	INPUT	REQD		
				BRG	BRG		
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
Q	2236	0	2236	0	0	5-8	5-8
J	3067	0	3067	0	0	MECHANICAL	

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

UNFACTORED REACTIONS							
	1ST CASE	MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
Q	1575	1085	0	0	0	510	0
J	2157	1479	0	0	0	678	0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.97 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					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX CSI (LC)		
FR-TO		FROM TO			FR-TO				
A-B	0 35	-91.8 -91.8	0.07 (1)	10.00	P-C	-503 0	0.08 (1)		
B-C	-2484 0	-91.8 -91.8	0.13 (1)	5.82	C-D	0 70	0.01 (1)		
C-D	-2571 0	-91.8 -91.8	0.13 (1)	5.83	D-E	-2 80	0.01 (4)		
D-E	-3030 0	-91.8 -91.8	0.20 (1)	5.11	E-F	0 1433	0.18 (1)		
E-F	-3235 0	-91.8 -91.8	0.21 (1)	4.97	F-G	-738 0	0.22 (1)		
F-G	-3235 0	-91.8 -91.8	0.20 (1)	4.99	G-H	0 327	0.04 (1)		
G-H	-2123 0	-91.8 -91.8	0.15 (1)	5.91	H-I	-469 0	0.14 (1)		
H-I	0 35	-91.8 -91.8	0.07 (1)	10.00	I-J	0 2339	0.29 (1)		
I-J	-2188 0	0.0 0.0	0.12 (1)	7.53	J-K	-995 0	0.30 (1)		
J-K	-2962 0	0.0 0.0	0.33 (1)	6.70	K-H	0 2137	0.28 (1)		
						0 2298	0.28 (1)		
Q-P	0 0	-18.5 -18.5	0.02 (1)	10.00					
P-O	0 2087	-18.5 -18.5	0.18 (1)	10.00					
O-N	0 2118	-18.5 -18.5	0.22 (1)	10.00					
N-M	0 3030	-18.5 -18.5	0.45 (1)	10.00					
M-R	0 3030	-18.5 -18.5	0.45 (1)	10.00					
R-L	0 3030	-18.5 -18.5	0.45 (1)	10.00					
L-S	0 1748	-18.5 -18.5	0.27 (1)	10.00					
S-T	0 1748	-18.5 -18.5	0.27 (1)	10.00					
T-K	0 1748	-18.5 -18.5	0.27 (1)	10.00					
K-U	0 0	-18.5 -18.5	0.08 (1)	10.00					
U-J	0 0	-18.5 -18.5	0.06 (1)	10.00					

FACTORED CONCENTRATED LOADS (LBS)							
JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL
K	21-11-4	-187	-187	---	FRONT	VERT	TOTAL
L	16-11-4	-187	-187	---	FRONT	VERT	TOTAL
R	16-0-0	-1259	-1259	---	FRONT	VERT	TOTAL
S	17-11-4	-187	-187	---	FRONT	VERT	TOTAL
T	19-11-4	-187	-187	---	FRONT	VERT	TOTAL
U	23-11-4	-195	-195	---	FRONT	VERT	TOTAL

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

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 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 NBCC 2010, NBCC 2015
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (0.86")
CALCULATED VERT. DEFL. (LL) = L/999 (0.06")
ALLOWABLE DEFL. (TL) = L/360 (0.86")
CALCULATED VERT. DEFL. (TL) = L/999 (0.12")

CSI: TG=0.33/1.00 (H-J:1), BC=0.45/1.00 (L-N:1), WB=0.30/1.00 (G-K:1), SSI=0.35/1.00 (L-N:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 = 0.81 (H) (INPUT = 0.90)
JSI METAL = 0.53 (H) (INPUT = 1.00)



Structural component only
DWG# T-2007611 1/2

CONTINUED ON PAGE 2

JOB NAME 408222	TRUSS NAME T9	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DWG NO.
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Temarack Roof Truss, Burlington

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ID:DMCubINVR6TslFoe31v6l_zna1l-b64ydQG4wSx377Qah?CeImKBHhB8zlfmgmfizMFY

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWW+p	MT20	5.0	6.0	Edge	
C	TMWW-l	MT20	4.0	4.0	2.00	1.50
D	TTWW+m	MT20	5.0	6.0	2.00	1.50
E	TMWW-l	MT20	4.0	4.0		
F	TMWW+w	MT20	2.0	4.0		
G	TTWW+m	MT20	5.0	6.0	2.50	1.50
H	TMWW+p	MT20	4.0	6.0	Edge	
J	BMV1+p	MT20	3.0	6.0		
K, N, O, P						
K	BMWW-l	MT20	5.0	6.0		
L	BMWWW-l	MT20	5.0	6.0		
M	BS-l	MT20	5.0	6.0		
Q	BMV1+p	MT20	3.0	6.0		

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



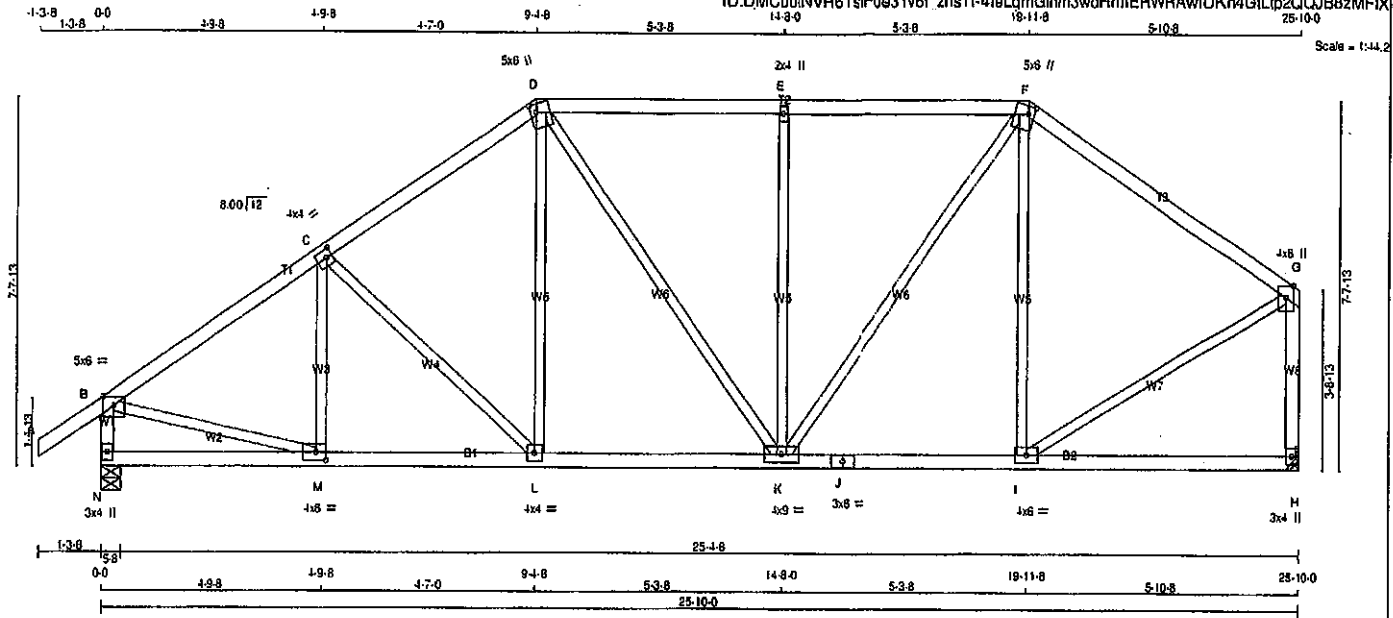
Structural component only
DWG# T-2007611

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408222	T10	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TsFoe31v6I 2ns11-4leLgmGihm3wdHmERWRAwLUKh4GILp2QQJB8zMFIX



TOTAL WEIGHT = 118 lb (M/JF)

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	MT20	5.0	6.0	Edge
C	TMWW-l	MT20	4.0	4.0	2.00 1.50
D	TTWW+m	MT20	5.0	6.0	2.00 1.50
E	TMW-w	MT20	2.0	4.0	
F	TTWW+m	MT20	5.0	6.0	2.00 1.50
G	TMWV-p	MT20	4.0	6.0	Edge
H	BMV1-p	MT20	3.0	4.0	
I	BMWW-l	MT20	4.0	6.0	
J	BS-l	MT20	3.0	6.0	
K	BMWWV-l	MT20	4.0	9.0	
L	BMWW-l	MT20	4.0	4.0	
M	BMWW-l	MT20	4.0	6.0	2.00 2.50
N	BMV1-p	MT20	3.0	4.0	

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	VERT	HORZ	DOWN	HORZ
N	1550	0	1550	0
H	1424	0	1424	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT H. MINIMUM BEARING LENGTH AT JOINT H = 3.8.

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
N	1094	731	0	0	0	0	363	0
H	1007	661	0	0	0	0	346	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.93 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: 14)

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	M-C	-217 3	0.07 (1)
B-C	-1609 0	-91.8	-91.8 0.29 (1)	4.93	C-L	-273 0	0.20 (1)
C-D	-1425 0	-91.8	-91.8 0.28 (1)	5.17	L-D	0 280	0.06 (1)
D-E	-1272 0	-91.8	-91.8 0.35 (1)	5.30	D-K	0 185	0.04 (1)
E-F	-1272 0	-91.8	-91.8 0.35 (1)	5.30	K-E	-595 0	0.64 (1)
F-G	-1077 0	-91.8	-91.8 0.43 (1)	5.52	K-F	0 655	0.15 (1)
N-B	-1511 0	0.0	0.0 0.16 (1)	0.68	I-F	-390 0	0.42 (1)
H-G	-1380 0	0.0	0.0 0.32 (1)	6.92	B-M	0 1386	0.31 (1)
					I-G	0 1031	0.23 (1)
N-M	0 0	-18.5	-18.5 0.09 (4)	10.00			
M-L	0 1362	-18.5	-18.5 0.27 (1)	10.00			
L-K	0 1164	-18.5	-18.5 0.24 (1)	10.00			
K-J	0 890	-18.5	-18.5 0.23 (1)	10.00			
J-I	0 690	-18.5	-18.5 0.23 (1)	10.00			
I-H	0 0	-18.5	-18.5 0.15 (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 6.00/12

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

THIS DESIGN COMPLIES WITH:

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

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.86")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.86")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.43/1.00 (F-G:1), BC=0.27/1.00 (L-M:1), WB=0.64/1.00 (E-K:1), SSI=0.23/1.00 (E-F:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1 10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (B) (INPUT = 0.80)
JSI METAL = 0.58 (G) (INPUT = 1.00)

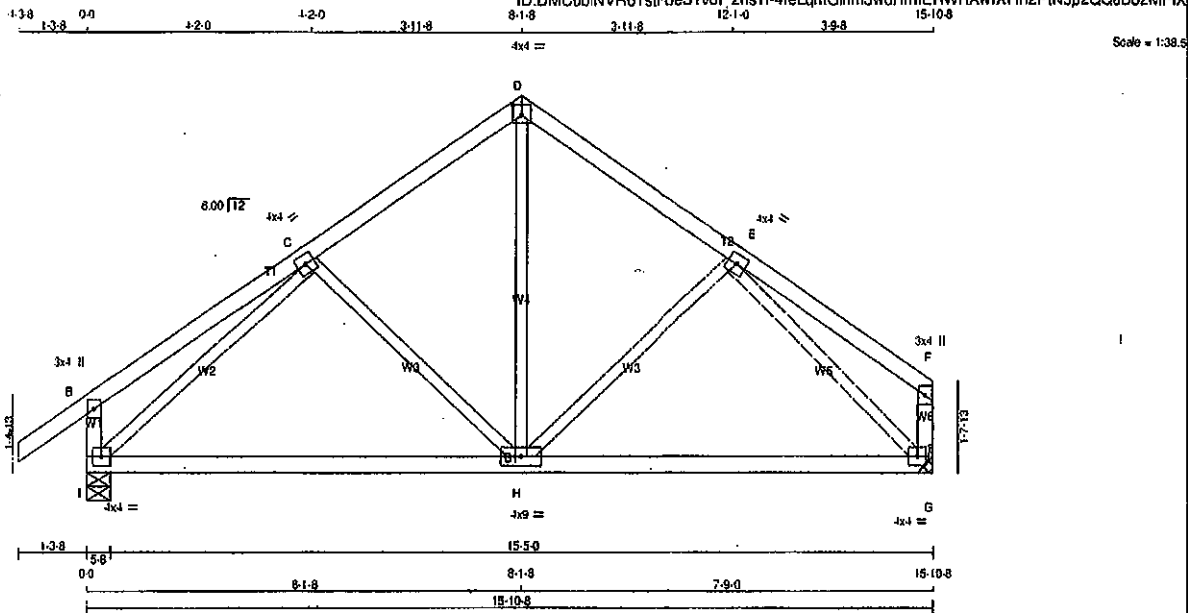


Structural component only
DWG# T-2007612.

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408222	T11A	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 66 = 132 lb
(M/JF)

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

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV-p	MT20	3.0	4.0		
C	TMVW-1	MT20	4.0	4.0		
D	TTW-p	MT20	4.0	4.0	2.25	2.00
E	TMVW-1	MT20	4.0	4.0		
F	TMV-p	MT20	3.0	4.0		
G	BMVW-1	MT20	4.0	4.0		
H	BMVW-1	MT20	4.0	4.0		
I	BMVW-1	MT20	4.0	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
I	1001	0	1001	0
G	875	0	875	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
I	708	478	0	0	0	0	228	0
G	619	408	0	0	0	0	213	0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX.	MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX
		(LBS)	(PLF)			(LC)	UNBRAC			(LBS)			(LC)
FR-TO			FROM				LENGTH	FR-TO					
A-B	0	35	-91.8	-91.8	0.12	(1)	10.00	C-H	-228	0	0.12	(1)	
B-C	0	24	-91.8	-91.8	0.24	(1)	10.00	H-D	0	449	0.10	(1)	
C-D	-891	0	-91.8	-91.8	0.19	(1)	6.25	H-E	-188	0	0.09	(1)	
D-E	-689	0	-91.8	-91.8	0.17	(1)	6.25	I-C	-988	0	0.50	(1)	
E-F	0	24	-91.8	-91.8	0.22	(1)	10.00	E-G	-971	0	0.44	(1)	
I-B	-289	0	0.0	0.0	0.03	(1)	7.81						
G-F	-125	0	0.0	0.0	0.01	(1)	7.81						
I-H	0	722	-18.5	-18.5	0.39	(4)	10.00						
H-G	0	677	-18.5	-18.5	0.39	(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 2015, CBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-08, 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 (0.53")
CALCULATED VERT. DEFL.(LL) = L/989 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.53")
CALCULATED VERT. DEFL.(TL) = L/989 (0.11")

CSI: TC=0.24(1.00) (B-C:1), BC=0.39(1.00) (H-I:4), WB=0.50(1.00) (C-I: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	1867 788	1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.84 (E) (INPUT = 0.90)
JSI METAL = 0.35 (C) (INPUT = 1.00)



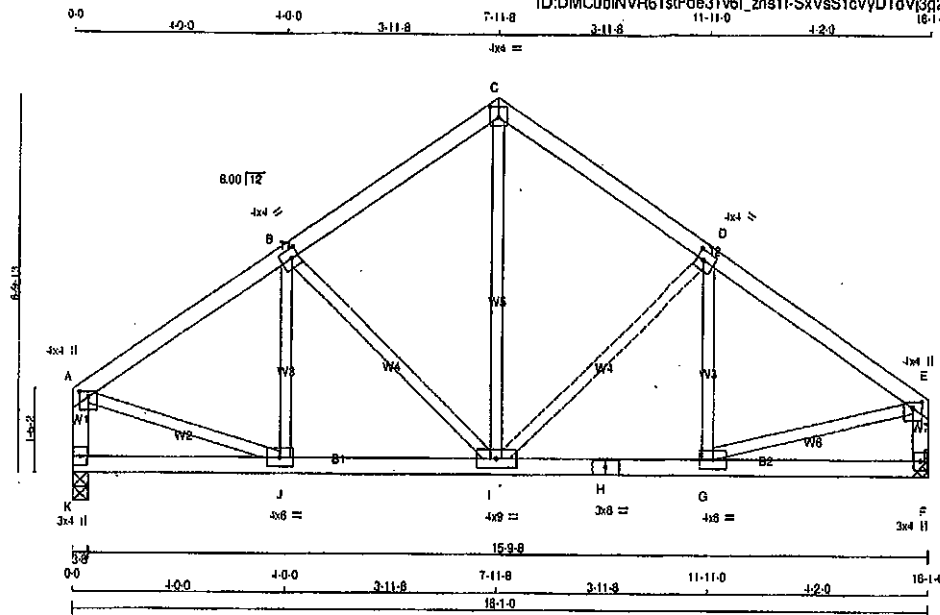
Structural component only
DWG# T-2007613

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408223	T11B	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TstFoe31v6L_2ns11-SxVsStcVDTdV3g25iMsNothBxxWB?PWsSQ4izMEMI



Scale = 1:38.5

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

ALL WEBS 2x3 DRY No.2 SPF

EXCEPT

PLATES (Table 1a in inches)	JT TYPE	PLATES	W	LEN	Y	X
A	TMVV+p	MT20	4.0	4.0	1.25	2.00
B	TMVV+p	MT20	4.0	4.0	2.00	1.50
C	TTW+p	MT20	4.0	4.0	2.25	2.00
D	TMVV+p	MT20	4.0	4.0	2.00	1.50
E	TMVV+p	MT20	4.0	4.0	1.25	2.00
F	BMV1+p	MT20	3.0	4.0		
G	BMV1+p	MT20	4.0	6.0		
H	BS-1	MT20	3.0	6.0		
I	BMV1+p	MT20	4.0	9.0		
J	BMV1+p	MT20	4.0	6.0		
K	BMV1+p	MT20	3.0	4.0		

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

BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
VERT	HORIZ	DOWN	HORIZ	UPLIFT
K	887	0	887	0
F	887	0	887	0

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
K	627	411	0	0	0	0
F	627	411	0	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 = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	-888 0	-91.8 -91.8	0.19 (1) 6.25	J-B	-142 18	0.04 (1)	
B-C	-687 0	-91.8 -91.8	0.18 (1) 6.25	B-I	-283 0	0.13 (1)	
C-D	-688 0	-91.8 -91.8	0.19 (1) 6.25	I-C	0 461	0.10 (1)	
D-E	-891 0	-91.8 -91.8	0.20 (1) 6.25	I-D	-292 0	0.15 (1)	
K-A	-855 0	0.0 0.0	0.09 (1) 7.81	G-D	-117 28	0.03 (1)	
F-E	-853 0	0.0 0.0	0.09 (1) 7.81	A-J	0 772	0.17 (1)	
				G-E	0 787	0.18 (1)	
K-J	0 0	-18.5 -18.5	0.07 (4) 10.00				
J-I	0 740	-18.5 -18.5	0.15 (1) 10.00				
I-H	0 781	-18.5 -18.5	0.15 (1) 10.00				
H-G	0 781	-18.5 -18.5	0.15 (1) 10.00				
G-F	0 0	-18.5 -18.5	0.07 (4) 10.00				

TOTAL WEIGHT = 2'X 69 = 137 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./O.C

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

THIS DESIGN COMPLIES WITH:

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

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 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 (0.03")

CS1: TC=0.20/1.00 (D-E:1), EC=0.15/1.00 (G-I:1), WB=0.18/1.00 (E-G:1), SS1=0.15/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

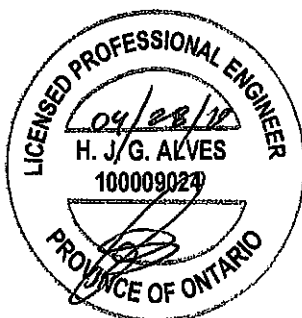
NAIL VALUES

PLATE GRIP(DRY) SHEAR	SECTION
(PSI)	(PLI)
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= 0.85 (E) (INPUT = 0.90)
JSI METAL= 0.25 (H) (INPUT = 1.00)



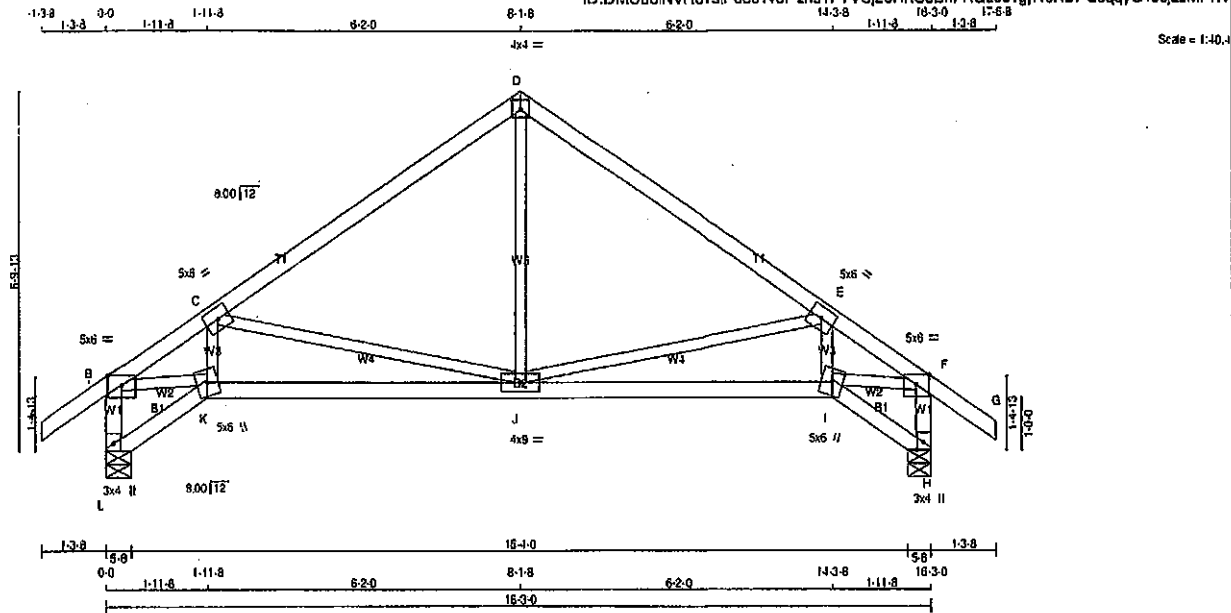
Structural component only
DWG# T-2007631

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408222	T11S	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 67 = 134 lb

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

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

PLATES (tablets in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	Edge	
C	TMWW-l	MT20	5.0	6.0		
D	TTW-p	MT20	4.0	4.0	2.25	2.00
E	TMWW-l	MT20	5.0	6.0		
F	TMVW-p	MT20	5.0	6.0	Edge	
H	BMV1+p	MT20	3.0	4.0	Edge	
I	BBWW+m	MT20	5.0	6.0		
J	BBWW-l	MT20	4.0	9.0		
K	BBWW+m	MT20	5.0	6.0		
L	BMV1+p	MT20	3.0	4.0	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
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
L	1022	0	1022	0
H	1022	0	1022	0

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS	1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
L	720	486.0	0.0
H	720	486.0	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 = 4.97 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. CS1 (LC)	MAX. UNBRACED LENGTH	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
FR-TO						FR-TO			
L-B	-1004	0	0.0	0.0	11.1 (1)	7.80	B-K	0	1321
A-B	0	35	-91.8	-91.8	0.12 (1)	10.00	K-C	0	55
B-C	-1508	0	-91.8	-91.8	0.33 (1)	4.97	C-J	-859	0
C-D	-841	0	-91.8	-91.8	0.41 (1)	6.08	J-D	0	444
D-E	-841	0	-91.8	-91.8	0.42 (1)	6.07	E-E	-861	0
E-F	-1510	0	-91.8	-91.8	0.33 (1)	4.97	I-E	0	56
F-G	0	35	-91.8	-91.8	0.12 (1)	10.00	I-F	0	1323
H-F	-1004	0	0.0	0.0	0.11 (1)	7.80			
L-K	0	0	-18.5	-18.5	0.02 (4)	10.00			
K-J	0	1319	-18.5	-18.5	0.33 (1)	10.00			
J-I	0	1320	-18.5	-18.5	0.33 (1)	10.00			
I-H	0	0	-18.5	-18.5	0.02 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2010, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 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 (0.08")

CS1: TC=0.42(1.00 (D-E)), BC=0.33(1.00 (I-J)), WB=0.47(1.00 (E-J)), SS=0.21(1.00 (D-E))

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 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.69 (I) (INPUT = 0.90)
JSI METAL = 0.47 (K) (INPUT = 1.00)



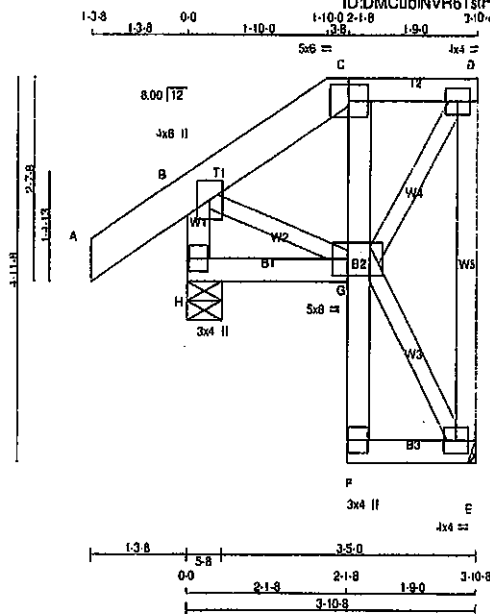
Structural component only
DWG# T-2007614

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408222	T12S	1	1	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

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

LUMBER	SIZE	DRY	LUMBER	DESCR.
N. L. G. A. RULES				
CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x8	DRY	No.2	SPF
C - D	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF
H - B	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 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table in inches)	W	LEN	Y	X
JT TYPE PLATES				
B TMVW+p MT20	4.0	6.0		
C TTV-m MT20	5.0	6.0		
D TMVW-i MT20	4.0	4.0		
E BMVW-i MT20	4.0	4.0		
F BMV+p MT20	3.0	4.0		
G BMVWW-i MT20	5.0	8.0	2.50	2.50
H BMV-i+p MT20	3.0	4.0		

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	HORZ	DOWN	HORZ	UPLIFT
E	214	0	214	0
H	344	0	344	0

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

UNFACTORED REACTIONS

1ST LCASE	MAX. MIN. COMPONENT REACTIONS								
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL		
E	151	99	0	0	0	0	52	0	0
H	241	172	0	0	0	0	69	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: 15)

CHORDS	WEBS
MEMB.	MEMB.
MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
VERT. LOAD	VERT. LOAD
LC1	LC1
MAX	MAX
CS1 (LC)	CS1 (LC)
UNBRACED LENGTH	UNBRACED LENGTH
FR-TO	FR-TO
A-B	0 36
B-C	-105 0
C-D	-79 0
E-D	-198 0
H-B	-323 0
H-G	0 0
F-G	0 17
G-C	-119 0
F-E	0 2

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. CC

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.0012

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

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.08;1.00 (D-E:1), BC=0.03;1.00 (G-H:4), WB=0.03;1.00 (D-G:1), SSI=0.07;1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

MAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 816 354 1667 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

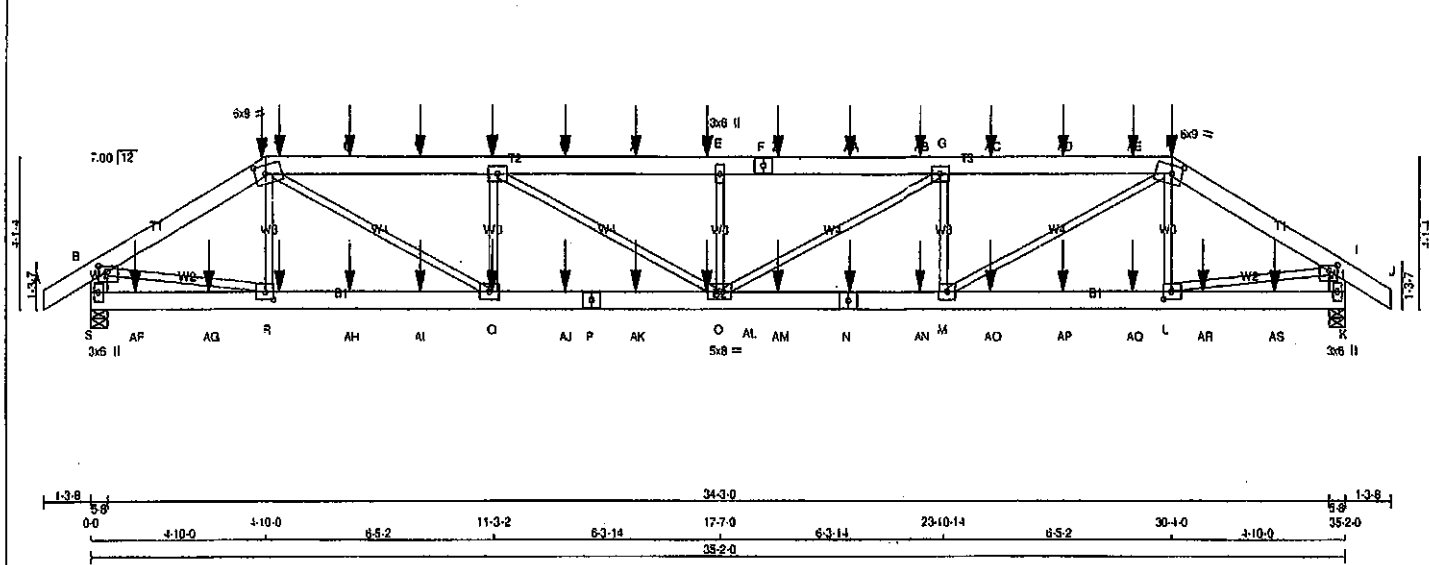
JSI GRIP = 0.19 (B) (INPUT = 0.90)
JSI METAL = 0.11 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007615

JOB NAME 408223	TRUSS NAME IT20	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Temarack Roof Truss, Burlington				TRUSS DESC.	

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 ID:DMCubINVR6tstFos3iv6l zns1l-x73EgNd7jXbU6sescDbPaw0PaBNFZ7YIB c8zMEMh
 -1-3-8 0-0 +10-0 +10-0 5-2-12 0-0-6 11-3-2 6-3-14 17-7-0 6-3-14 23-10-14 6-5-2 30-4-0 +10-0 35-2-0 1-3-8
 Scale = 1:57.6



TOTAL WEIGHT = 2 X 180 = 359 lb (M)

LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.	BEARINGS			
CHORDS				FACTORED	MAXIMUM FACTORED	INPUT	RECORD
A - C	2x8	DRY	No.2	GROSS REACTION	GROSS REACTION	BRG	BRG
C - F	2x8	DRY	No.2	JT VERT	JT VERT	UP-LIFT	IN-SX
F - H	2x8	DRY	No.2	S 3423	0	3423	0
H - J	2x8	DRY	No.2	K 3385	0	3385	0
J - L	2x8	DRY	No.2				
L - N	2x8	DRY	No.2				
N - K	2x8	DRY	No.2				
ALL WEBS	2x3	DRY	No.2				
EXCEPT							

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C 2 12	SIDE(122.0)	
C - F 2 12	SIDE(183.1)	
F - H 2 12	SIDE(61.0)	
H - J 2 12	SIDE(122.0)	
J - L 2 12	TOP	
L - N 2 12	TOP	
N - K 2 12	SIDE(183.1)	
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
S - P 2 12	SIDE(183.1)	
P - N 2 12	SIDE(0.0)	
N - K 2 12	SIDE(0.0)	
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1 6		

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

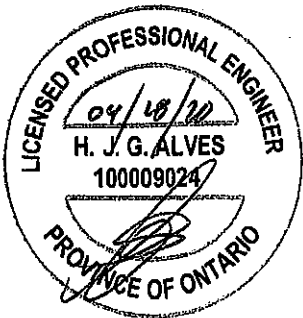
GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

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.

CHORDS	MAX. FACTORED	FACTORED	MAX. FACTORED	WEBS	MAX. FACTORED	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)
FR-TO				FR-TO		
A-B 0 33	-91.8	-91.8	0.04 (1)	R-C 0 3334	0.44 (1)	
B-C -4681 0	-91.8	-91.8	0.13 (1)	Q-D 0 -1555 0	0.19 (1)	
C-T -7102 0	-91.8	-91.8	0.31 (1)	D-O 0 1048	0.13 (1)	
T-U -7102 0	-91.8	-91.8	0.31 (1)	O-E -864 0	0.10 (1)	
U-V -7102 0	-91.8	-91.8	0.31 (1)	E-G 0 1085	0.13 (1)	
V-D -7102 0	-91.8	-91.8	0.31 (1)	G-H -1573 0	0.19 (1)	
D-W -8010 0	-91.8	-91.8	0.32 (1)	H-I 0 3572	0.44 (1)	
W-X -8010 0	-91.8	-91.8	0.32 (1)	I-L 0 -4022	0.50 (1)	
X-Y -8010 0	-91.8	-91.8	0.32 (1)			
Y-E -8010 0	-91.8	-91.8	0.32 (1)			
E-F -8010 0	-91.8	-91.8	0.33 (1)			
F-Z -8010 0	-91.8	-91.8	0.33 (1)			
Z-AA -8010 0	-91.8	-91.8	0.33 (1)			
AA-AB -8010 0	-91.8	-91.8	0.33 (1)			
AB-AC -8010 0	-91.8	-91.8	0.33 (1)			
AC-AD -7070 0	-91.8	-91.8	0.30 (1)			
AD-AE -7070 0	-91.8	-91.8	0.30 (1)			
AE-H -7070 0	-91.8	-91.8	0.30 (1)			
H-I -4806 0	-91.8	-91.8	0.13 (1)			
I-J 0 33	-91.8	-91.8	0.04 (1)			
S-B -3367 0	0.0	0.0	0.12 (1)			
K-I -3318 0	0.0	0.0	0.12 (1)			

SAF 0 0	-18.5	-18.5	0.08 (4)	10.00
AF-AG 0 0	-18.5	-18.5	0.08 (4)	10.00
AG-R 0 0	-18.5	-18.5	0.08 (4)	10.00
RAH 0 4024	-18.5	-18.5	0.31 (1)	10.00
AH-AI 0 4024	-18.5	-18.5	0.31 (1)	10.00
AI-Q 0 4024	-18.5	-18.5	0.31 (1)	10.00
Q-AJ 0 7102	-18.5	-18.5	0.52 (1)	10.00
AJ-P 0 7102	-18.5	-18.5	0.52 (1)	10.00
P-AK 0 7102	-18.5	-18.5	0.52 (1)	10.00
AK-AL 0 7102	-18.5	-18.5	0.52 (1)	10.00
AL-O 0 7102	-18.5	-18.5	0.52 (1)	10.00
O-AM 0 7070	-18.5	-18.5	0.52 (1)	10.00
AM-N 0 7070	-18.5	-18.5	0.52 (1)	10.00
N-AN 0 7070	-18.5	-18.5	0.52 (1)	10.00
AN-M 0 7070	-18.5	-18.5	0.52 (1)	10.00
M-AO 0 3960	-18.5	-18.5	0.30 (1)	10.00
AO-AP 0 3960	-18.5	-18.5	0.30 (1)	10.00
AP-AQ 0 3960	-18.5	-18.5	0.30 (1)	10.00
AQ-L 0 3960	-18.5	-18.5	0.30 (1)	10.00

CONTINUED ON PAGE 2



Structural component only
 DWG# T-2007632 1/2

JOB NAME 408223	TRUSS NAME T20	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.310 S Oct 29 2019 Mtek Industries, Inc. Tue Apr 28 10:04:02 2020 Page 2	
ID:DMCubINVR8TsFoe31v6I zns1l-x73EqNd7XbU6sascoDbPawOPaBNFZ7YIB c8zMEMh					

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	2.75	3.50
D	TMWW-l	MT20	5.0	6.0		
E	TMW-w	MT20	3.0	6.0		
F	TS-l	MT20	5.0	6.0		
G	TMWW-l	MT20	5.0	6.0		
H	TTWW-m	MT20	6.0	9.0	2.75	3.50
J	TMVW-p	MT20	5.0	6.0	1.75	2.75
K	BMV1-p	MT20	3.0	6.0		
L	BMWW-l	MT20	5.0	6.0	2.50	2.75
M	BMWW-l	MT20	5.0	6.0		
N	BS-l	MT20	5.0	6.0		
O	BMWWW-l	MT20	5.0	6.0		
P	BS-l	MT20	5.0	6.0		
Q	BMWW-l	MT20	5.0	6.0		
R	BMWW-l	MT20	5.0	6.0	2.50	2.75
S	BMV1-p	MT20	3.0	6.0		

LOADING

TOTAL LOAD CASES: (4)

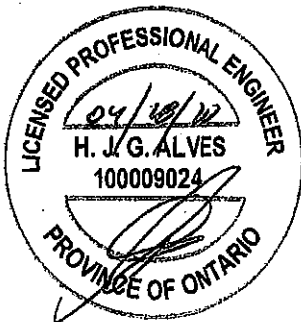
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	FACTORED LOAD (LC)	MAX. UNBRAC (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC (LBS)
FR-TO		FROM	TO	LENGTH	FR-TO		
L-AR	0 0	-18.5	-18.5	0.06 (4)	10.00		
AR-AS	0 0	-18.5	-18.5	0.06 (4)	10.00		
AS-K	0 0	-18.5	-18.5	0.06 (4)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	4-10-0	-60	-67	---	FRONT	VERT	DEAD	---	C1
C	4-10-0	-311	-311	---	FRONT	VERT	SNOW	---	C1
D	11-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
H	30-4-0	-60	-67	---	FRONT	VERT	DEAD	---	C1
H	30-4-0	-311	-311	---	FRONT	VERT	SNOW	---	C1
N	21-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
Q	11-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
R	5-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
T	5-2-12	-138	-138	---	FRONT	VERT	TOTAL	---	C1
U	7-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
V	9-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
W	13-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
X	15-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Y	17-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Z	19-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AA	21-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AB	23-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AC	25-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AD	27-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AE	29-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AF	1-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AG	3-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AH	7-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AI	9-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AJ	13-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AK	15-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AL	17-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AM	19-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AN	23-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AO	25-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AP	27-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AQ	29-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AR	31-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AS	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-2007632

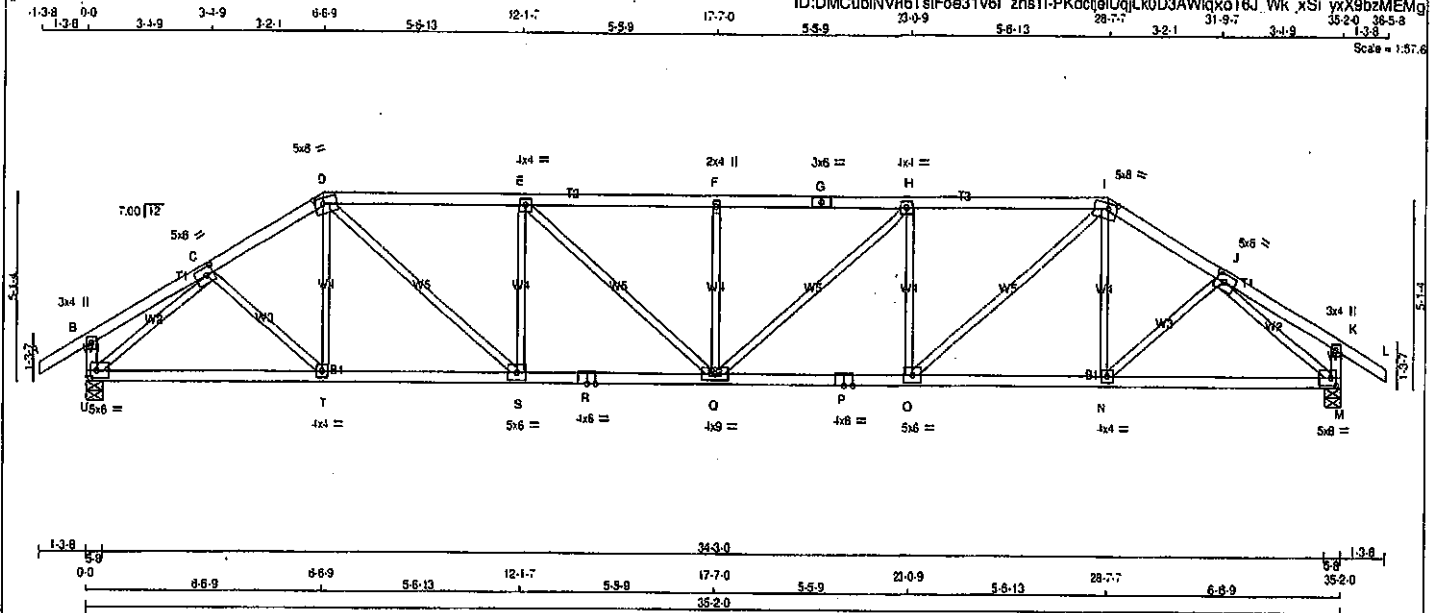
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408223	T21	1	1	TRUSS DESC.		

Tamareck Roof Truss, Burlington

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ID:DMCubINVR6TsiF0e31v6I zns11-PKd0t0iUqLk0D3AWIqxoT6J Wk_xSi yxX9bzMEMg

Scale = 1:57.6



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

DRY: SEASONED LUMBER.

PLATES (tablets in inches)	JT TYPE	PLATES	W	LEN	Y	X
A - D	TMV+p	MT20	3.0	4.0		
C	TMWW-I	MT20	5.0	6.0	2.50	2.50
D	TTWW-m	MT20	5.0	6.0	1.75	3.00
E	TMWW-I	MT20	4.0	4.0		
F	TMWW-w	MT20	2.0	4.0		
G	TS-I	MT20	3.0	6.0		
H	TMWW-I	MT20	4.0	4.0		
I	TTWW-m	MT20	5.0	6.0	1.75	3.00
J	TMWW-I	MT20	5.0	6.0	2.50	2.50
K	TMV+p	MT20	3.0	4.0		
N	BMVW-I	MT20	5.0	6.0	2.50	2.00
O	BMVW-I	MT20	4.0	4.0		
P	BS-I	MT20	5.0	6.0		
Q	BS-I	MT20	4.0	6.0		
R	BS-I	MT20	4.0	6.0		
S	BMVW-I	MT20	5.0	6.0		
T	BS-I	MT20	4.0	4.0		
U	BMVW-I	MT20	5.0	6.0	2.50	2.00

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
U	2064	0	2064	0
M	2064	0	2064	0

UNFACTORED REACTIONS

1ST LCASE	MAX. MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
U	1457	970	0	0	0	488	0
M	1457	970	0	0	0	488	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 = 3.12 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 (PLF)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
A-B	0 32	-91.8 -91.8 0.12 (1)	C-T	0 213
B-C	0 13	-91.8 -91.8 0.12 (1)	T-D	-8 69
C-D	-2527 0	-91.8 -91.8 0.20 (1)	D-S	0 1447
D-E	-3264 0	-91.8 -91.8 0.66 (1)	S-E	-853 0
E-F	-3685 0	-91.8 -91.8 0.70 (1)	E-Q	0 428
F-G	-3585 0	-91.8 -91.8 0.70 (1)	Q-F	-482 0
G-H	-3585 0	-91.8 -91.8 0.70 (1)	Q-H	0 428
H-I	-3264 0	-91.8 -91.8 0.66 (1)	C-H	-853 0
I-J	-2527 0	-91.8 -91.8 0.20 (1)	Q-I	0 1447
J-K	0 13	-91.8 -91.8 0.12 (1)	N-I	-8 69
K-L	0 32	-91.8 -91.8 0.12 (1)	N-J	0 213
U-B	-249 0	0 0 0.03 (1)	U-C	-2871 0
M-K	-249 0	0 0 0.03 (1)	J-M	-2871 0
U-T	0 2005	-18.5 -18.5 0.42 (1)		
T-S	0 2167	-18.5 -18.5 0.44 (1)		
S-R	0 3284	-18.5 -18.5 0.58 (1)		
R-O	0 3284	-18.5 -18.5 0.58 (1)		
Q-P	0 3284	-18.5 -18.5 0.58 (1)		
P-O	0 3264	-18.5 -18.5 0.58 (1)		
O-N	0 2167	-18.5 -18.5 0.44 (1)		
N-M	0 2005	-18.5 -18.5 0.42 (1)		

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. CG

LOADING IN FLAT SECTION BASED ON A SLOPE OF 5.00/12

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

15% 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")

CSI: TC=0.70/1.00 (E-F:1), BC=0.58/1.00 (Q-S:1), WB=0.82/1.00 (J-M:1), SS=0.24/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

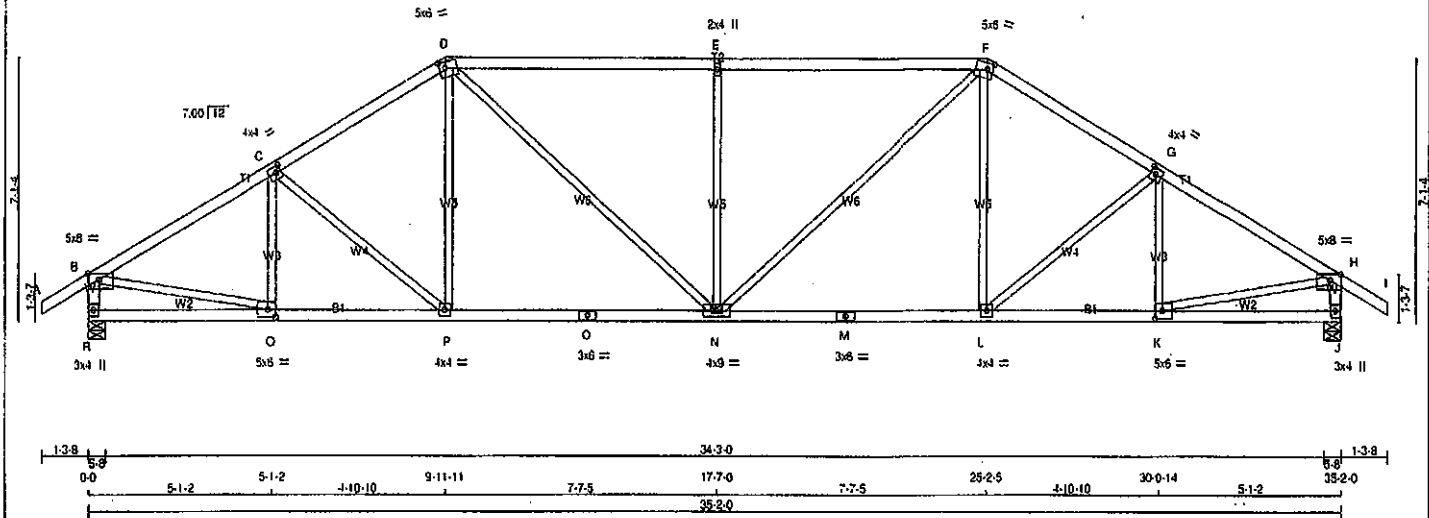
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.90 (MI INPUT = 0.90)
JSI METAL = 0.74 (RI INPUT = 1.00)



Structural component only
DWG# T-2007633

JOB NAME 408223	TRUSS NAME T23	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.310 S Oct 20 2019 MTEK Industries, Inc. Tue Apr 28 10:04:08 2020 Page 1 ID:DMCubINVR6TstFoe31v6l zns1l-pwJIVkgem5wbUyeraIXZQ5aqCaVBjG8gw9BivzMEMd 25-2-5 30-0-14 5-1-2 35-2-0 36-8-8 1-3-8 Scale = 1:57.6	



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

PLATES (Table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW-p	MT20	5.0	8.0 Edge 3.50
C	TMVW-t	MT20	4.0	4.0 2.00 1.75
D	TTWW-m	MT20	5.0	8.0 2.00 2.00
E	TMVW-w	MT20	2.0	4.0
F	TTWW-m	MT20	5.0	8.0 2.00 2.00
G	TMVW-t	MT20	4.0	4.0 2.00 1.75
H	TMVW-p	MT20	5.0	8.0 Edge 3.50
J	BMV1+p	MT20	3.0	4.0
K	BMVW-t	MT20	5.0	8.0 2.50 2.50
L	BMVW-t	MT20	4.0	4.0
M	BS-t	MT20	3.0	6.0
N	BMVWVW-t	MT20	4.0	9.0
O	BS-t	MT20	3.0	6.0
P	BMVW-t	MT20	4.0	4.0
Q	BMVW-t	MT20	5.0	8.0 2.50 2.50
R	BMV1+p	MT20	3.0	4.0

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	HORZ	BRG	IN-SX	BRG	IN-SX
R	2064	0	0	2064	0	5-8	5-8	5-8	5-8
J	2064	0	0	2064	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS		1ST CASE		MAX. MIN. COMPONENT REACTIONS		LIVE		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	SNOW	SNOW	SNOW	SNOW	SNOW	SNOW	SNOW	SNOW	SNOW	SNOW	SNOW	SNOW	SNOW
R	1457	970.0	0	0	0	0	0	0	0	0	0	488	0	0	0
J	1457	970.0	0	0	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 = 3.16 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
FR-TO		FROM	TO		FR-TO		
A-B	0 32	-91.8	-91.8 0.12 (1)	10.00	Q-C	-335 0	0.09 (1)
B-C	-2537 0	-91.8	-91.8 0.39 (1)	4.00	C-P	-216 0	0.16 (1)
C-D	-2398 0	-91.8	-91.8 0.37 (1)	4.11	P-D	0 258	0.08 (4)
D-E	-2809 0	-91.8	-91.8 0.88 (1)	3.16	D-N	0 752	0.17 (1)
E-F	-2609 0	-91.8	-91.8 0.88 (1)	3.16	N-E	-860 0	0.75 (1)
F-G	-2396 0	-91.8	-91.8 0.37 (1)	4.11	E-F	0 752	0.17 (1)
G-H	-2537 0	-91.8	-91.8 0.39 (1)	4.00	L-F	0 258	0.08 (4)
H-I	0 32	-91.8	-91.8 0.12 (1)	10.00	L-G	-216 0	0.16 (1)
I-J	-2020 0	0.0	0.0 0.21 (1)	5.84	K-G	-335 0	0.09 (1)
J-H	-2020 0	0.0	0.0 0.21 (1)	5.84	B-Q	0 2253	0.51 (1)
					K-H	0 2253	0.51 (1)
R-Q	0 0	-18.5	-18.5 0.10 (4)	10.00			
Q-P	0 2213	-18.5	-18.5 0.45 (1)	10.00			
P-O	0 2048	-18.5	-18.5 0.44 (1)	10.00			
O-N	0 2048	-18.5	-18.5 0.44 (1)	10.00			
N-M	0 2048	-18.5	-18.5 0.44 (1)	10.00			
M-L	0 2048	-18.5	-18.5 0.44 (1)	10.00			
L-K	0 2213	-18.5	-18.5 0.45 (1)	10.00			
K-J	0 0	-18.5	-18.5 0.10 (4)	10.00			

TOTAL WEIGHT = 145 lb (M)

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, NBCC 2010, NBCC 2015

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

65% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.27")

CSI: TC=0.88 (E-F:1), BC=0.45 (A:1, K-L:1), WB=0.75 (E-N:1), SS=0.34 (O-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 818 354 1667 768 1907 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (K) (INPUT = 0.90)
JSI METAL = 0.72 (M) (INPUT = 1.00)



Structural component only
DWG# T-2007635

JOB NAME 408223	TRUSS NAME T24	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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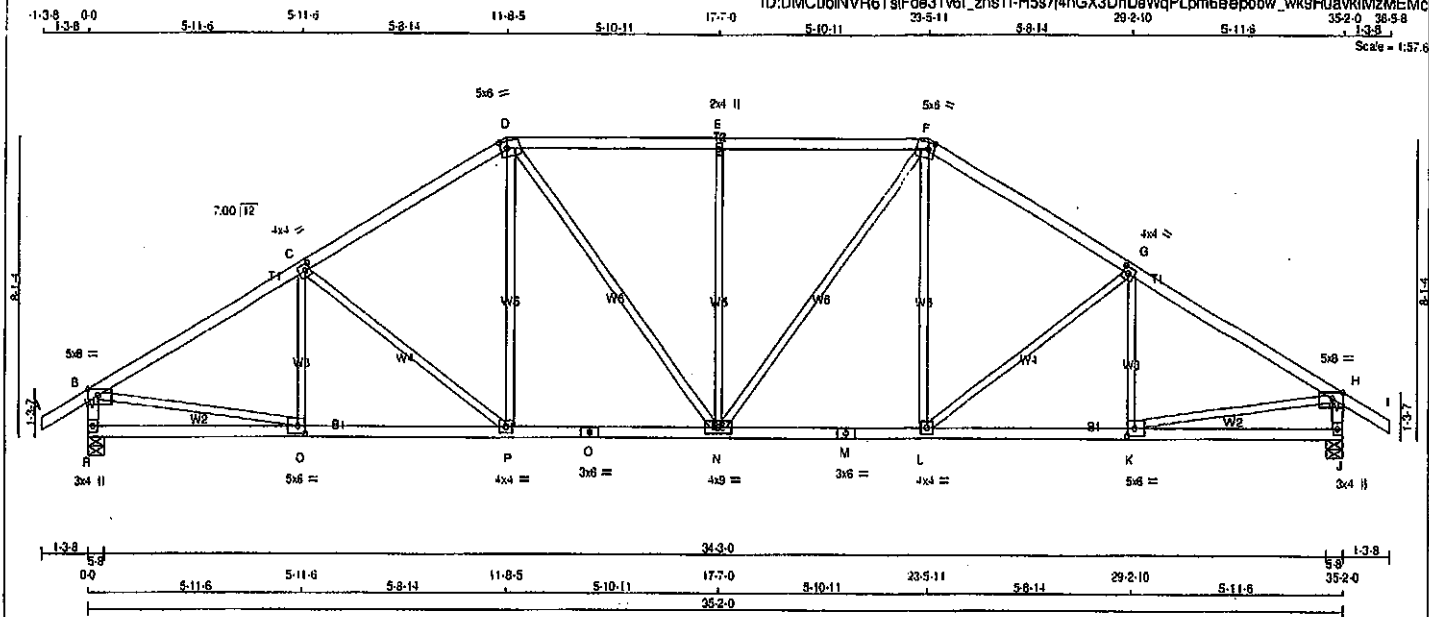
Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TslFoe31v6I_zns11-H5s74hGX3DnDeWqPLm6eepobw_wk9HuaVKIMzMEMc

352-0 38-58 1-3-8

Scale = 1:57.6



TOTAL WEIGHT = 151 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE PLATES				
B TMVW-p	MT20	5.0	8.0	Edge 3.50
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	4.0	4.0	2.00 1.75
H TMVW-p	MT20	5.0	8.0	Edge 3.50
J BMV1+p	MT20	3.0	4.0	
K BMVW-l	MT20	5.0	6.0	2.50 2.50
L BMVW-l	MT20	4.0	4.0	
M BS-l	MT20	3.0	6.0	
N BMVW-l	MT20	4.0	9.0	
O BS-l	MT20	3.0	6.0	
P BMVW-l	MT20	4.0	4.0	
Q BMVW-l	MT20	5.0	6.0	2.50 2.50
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 GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD
JT	VERT	DOWN	BRG	BRG
R	2084 0	2084 0	5-8	5-8
J	2084 0	2084 0	5-8	5-8

UNFACTORED REACTIONS	1ST LCASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
R	1457 970 0	0 0 0 0 488 0 0 0
J	1457 970 0	0 0 0 0 488 0 0 0

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

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.

LOADING	CHORDS	WEBS
TOTAL LOAD CASES: (4)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
	FROM TO	FROM TO
	FR-TO	FR-TO
	A-B 0 32	C-O -252 12
	B-C 2575 0	C-P -388 0
	C-D -2263 0	P-D 0 345
	D-E -2236 0	D-N 0 480
	E-F -2236 0	N-E -682 0
	F-G -2283 0	N-F 0 480
	G-H -2575 0	L-F 0 345
	H-I 0 32	L-G -388 0
	I-B -2016 0	K-G -252 12
	J-H -2018 0	B-Q 0 2281
		K-H 0 2281
	R-Q 0 0	
	Q-P 0 2251	
	P-O 0 1947	
	O-N 0 1947	
	N-M 0 1947	
	M-L 0 1947	
	L-K 0 2251	
	K-J 0 0	

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 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 (0.22')

CSI: TC=0.54, 1.00 (B-C), 8C=0.43, 1.00 (P-Q), 1.00 (E-N), 1.00 (E-N), 1.00 (E-N)

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= 0.86 (Q) (INPUT = 0.90)
JSI METAL= 0.61 (M) (INPUT = 1.00)



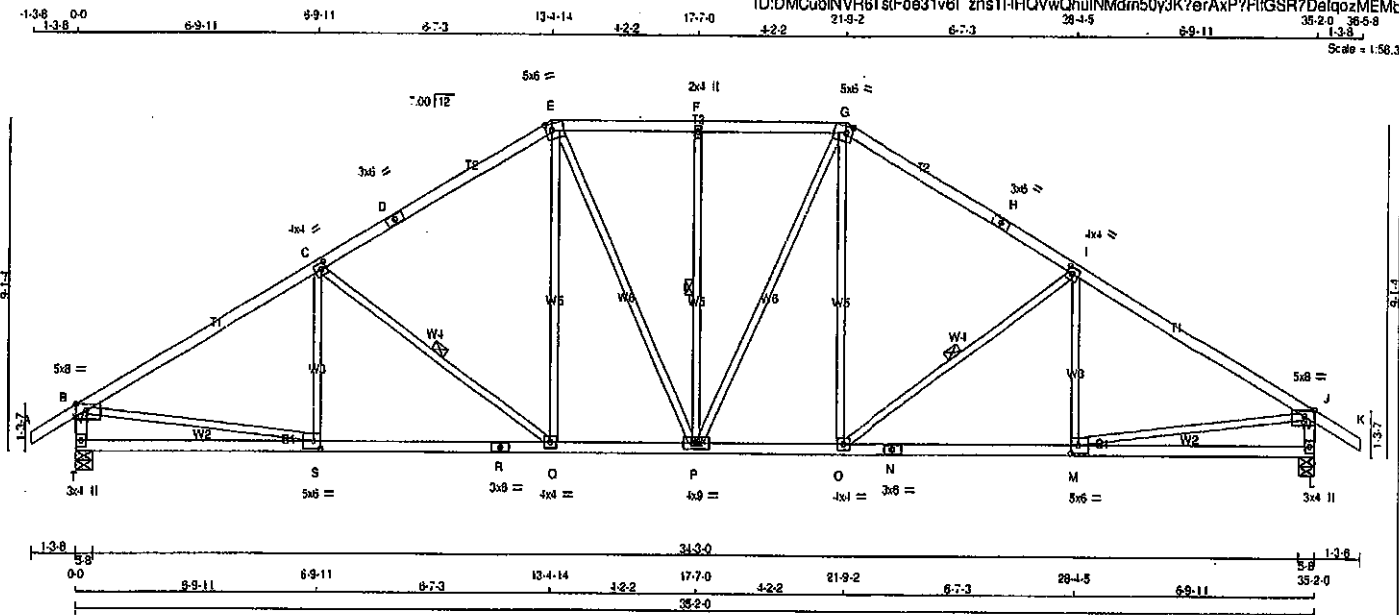
Structural component only
DWG# T-2007636

JOB NAME 408223	TRUSS NAME T25	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TstFoe31v6l zns1IHQVwChulNMdm50y3K7erAxP7FtiGSR7DalqozMEMb



TOTAL WEIGHT = 4 X 158 = 632 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - E	2x4	DRY No.2	SPF
E - G	2x4	DRY No.2	SPF
G - H	2x4	DRY No.2	SPF
H - K	2x4	DRY No.2	SPF
T - B	2x4	DRY No.2	SPF
L - J	2x4	DRY No.2	SPF
T - R	2x4	DRY No.2	SPF
R - N	2x4	DRY No.2	SPF
N - L	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	TMWV-p	MT20	5.0	8.0 Edge 3.50
C	TMWV-l	MT20	4.0	4.0 2.00 1.75
D	TS-l	MT20	3.0	6.0
E	TTWV-m	MT20	5.0	6.0 2.25 2.00
F	TMW-w	MT20	2.0	4.0
G	TTWV-m	MT20	5.0	6.0 2.25 2.00
H	TS-l	MT20	3.0	6.0
I	TMWV-l	MT20	4.0	4.0 2.00 1.75
J	TMWV-p	MT20	5.0	8.0 Edge 3.50
L	BMV-l-p	MT20	3.0	4.0
M	BMWV-l	MT20	5.0	6.0 2.50 2.50
N	BS-l	MT20	3.0	6.0
O	BMWV-l	MT20	4.0	4.0
P	BMWVW-l	MT20	4.0	9.0
Q	BMWV-l	MT20	4.0	4.0
R	BS-l	MT20	3.0	6.0
S	BMWV-l	MT20	5.0	6.0 2.50 2.50
T	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		INPUT	REQD
		DOWN	HORIZ	DOWN	HORIZ	BRG	BRG
JT	VERT						
T	2084	0	0	2084	0	5-8	5-8
L	2084	0	0	2084	0	5-8	5-8

UNFACTORED REACTIONS							
	1ST CASE	MAX. MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
T	1457	970	0	0	0	0	488
L	1457	970	0	0	0	0	488

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) T, L
 BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.54 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-Q, F-P, I-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)			
CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)
FR-TO		FROM TO	
A-B	0 32	-91.8 -91.8 0.12 (1)	10.00
B-C	-2590 0	-91.8 -91.8 0.74 (1)	3.54
C-D	-2156 0	-91.8 -91.8 0.66 (1)	3.91
D-E	-2156 0	-91.8 -91.8 0.66 (1)	3.91
E-F	-1956 0	-91.8 -91.8 0.24 (1)	4.61
F-G	-1956 0	-91.8 -91.8 0.24 (1)	4.61
G-H	-2156 0	-91.8 -91.8 0.66 (1)	3.91
H-I	-2156 0	-91.8 -91.8 0.66 (1)	3.91
I-J	-2590 0	-91.8 -91.8 0.74 (1)	3.54
J-K	0 32	-91.8 -91.8 0.12 (1)	10.00
T-B	-2011 0	0.0 0.0 0.20 (1)	5.95
L-J	-2011 0	0.0 0.0 0.20 (1)	5.95
WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MAX. FACTORED FORCE (LBS)
S-C	-185 51	0.08 (1)	
C-Q	-548 0	0.26 (1)	
Q-E	0 431	0.10 (1)	
E-P	0 286	0.08 (1)	
P-F	-460 0	0.26 (1)	
P-G	0 286	0.08 (1)	
O-G	0 431	0.10 (1)	
O-I	-548 0	0.26 (1)	
M-I	-185 51	0.08 (1)	
B-S	0 2292	0.52 (1)	
M-J	0 2292	0.52 (1)	
T-S	0 0	-18.5 -18.5 0.20 (4)	10.00
S-R	0 2269	-18.5 -18.5 0.46 (1)	10.00
R-Q	0 2269	-18.5 -18.5 0.46 (1)	10.00
Q-P	0 1833	-18.5 -18.5 0.36 (1)	10.00
P-O	0 1833	-18.5 -18.5 0.36 (1)	10.00
O-N	0 2269	-18.5 -18.5 0.46 (1)	10.00
N-M	0 2269	-18.5 -18.5 0.46 (1)	10.00
M-L	0 0	-18.5 -18.5 0.20 (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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
 - PART 9 OF CBC 2018, CBC 2012, ABC 2019
 - PART 9 OF CBC 2012 (2019 AMENDMENT)
 - CSA 086-08, CSA 086-14
 - TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.17')
 CALCULATED VERT. DEFL.(LL) = L/999 (0.11')
 ALLOWABLE DEFL.(TL) = L/360 (1.17')
 CALCULATED VERT. DEFL.(TL) = L/999 (0.22')

CS: TC=0.74/1.00 (K=1), BC=0.46/1.00 (M=0.1), WB=0.52/1.00 (J=1), SS=0.29/1.00 (L=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

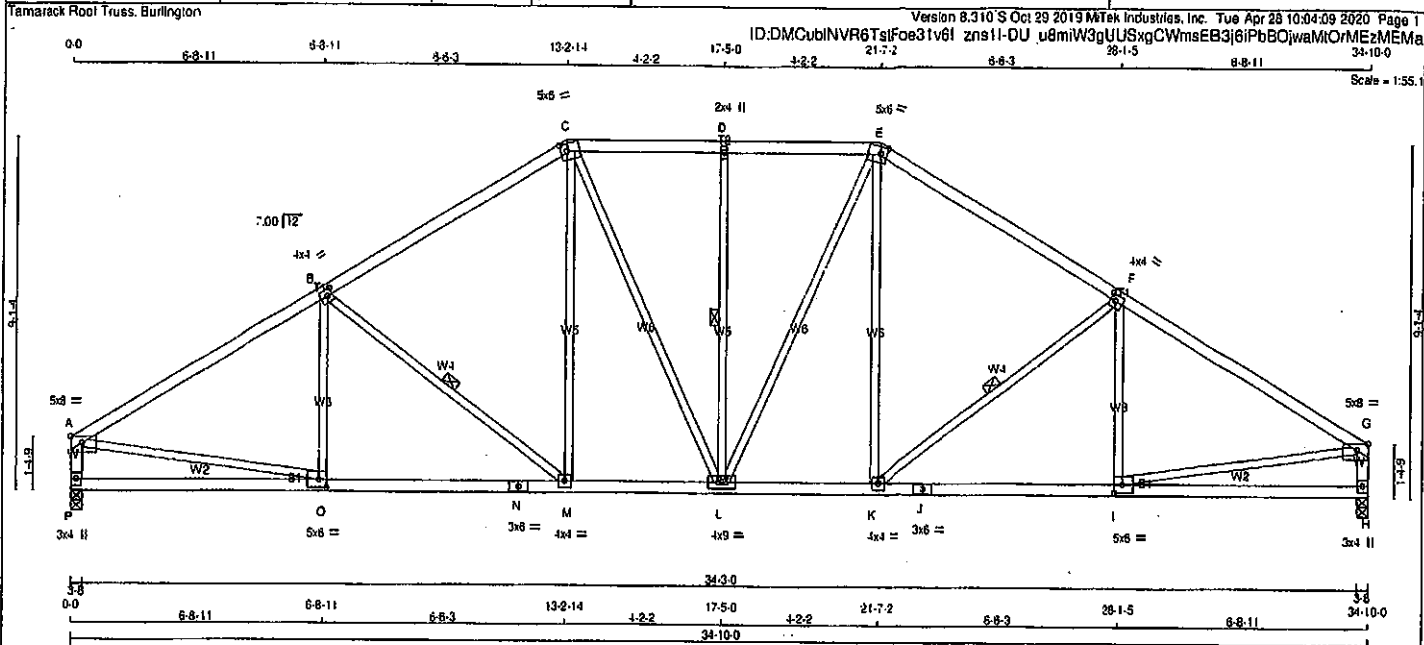
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.85 (S) (INPUT = 0.90)
 JSI METAL = 0.89 (N) (INPUT = 1.00)



Structural component only
 DWG# T-2007637

JOB NAME 408223	TRUSS NAME T25A	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
C - E	2x4	DRY No.2	SPF
E - G	2x4	DRY No.2	SPF
P - A	2x4	DRY No.2	SPF
H - G	2x4	DRY No.2	SPF
P - N	2x4	DRY No.2	SPF
N - J	2x4	DRY No.2	SPF
J - H	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
A	TMVW-p	MT20	5.0	8.0	2.00	Edge
B	TMVW-l	MT20	4.0	4.0	2.00	1.75
C	TTWW-m	MT20	5.0	6.0	2.25	2.00
D	TMVW-w	MT20	2.0	4.0		
E	TTWW-m	MT20	5.0	6.0	2.25	2.00
F	TMVW-l	MT20	4.0	4.0	2.00	1.75
G	TMVW-p	MT20	5.0	8.0	Edge	3.50
H	BMV1-p	MT20	3.0	4.0		
I	BMVW-l	MT20	5.0	6.0	2.50	2.50
J	BS-l	MT20	3.0	6.0		
K	BMVW-l	MT20	4.0	4.0		
L	BMVW-w	MT20	4.0	9.0		
M	BMVW-l	MT20	4.0	4.0		
N	BS-l	MT20	3.0	6.0		
O	BMVW-l	MT20	5.0	6.0	2.50	2.50
P	BMV1-p	MT20	3.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
P	1920	0	1920	0	3-8	3-8
H	1920	0	1920	0	3-8	3-8

UNFACTORED REACTIONS

JT	1ST LOASE		MAX. MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
P	1358	891	0	0	0	467	0
H	1358	891	0	0	0	467	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.64 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 B-M, D-L, F-K.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS						WEBS					
MEMB.	MAX. FACTORED		FACTORED		MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED		MAX		
	FORCE (LBS)	VERT. LOAD (LBS)	(PLF)	CS1 (LC)			FORCE (LBS)	CS1 (LC)			
FR-TO			FROM			FR-TO					
A-B	-2510	0	-91.8	-91.8	0.71 (1)	3.64	O-B	-212	40	0.09 (1)	
B-C	-2113	0	-91.8	-91.8	0.53 (1)	3.99	B-M	-510	0	0.24 (1)	
C-D	-1919	0	-91.8	-91.8	0.24 (1)	4.84	M-C	0	412	0.09 (1)	
D-E	-1919	0	-91.8	-91.8	0.24 (1)	4.84	C-L	0	287	0.08 (1)	
E-F	-2113	0	-91.8	-91.8	0.63 (1)	3.99	L-D	-461	0	0.25 (1)	
F-G	-2510	0	-91.8	-91.8	0.71 (1)	3.64	L-E	0	287	0.08 (1)	
P-A	-1868	0	0.0	0.0	0.19 (1)	6.13	K-E	0	412	0.08 (1)	
H-G	-1868	0	0.0	0.0	0.19 (1)	6.13	K-F	-510	0	0.24 (1)	
							I-F	-212	40	0.09 (1)	
P-O	0	0	-18.5	-18.5	0.20 (4)	10.00	A-O	0	2227	0.50 (1)	
O-N	0	2199	-18.5	-18.5	0.45 (1)	10.00	I-G	0	2227	0.50 (1)	
N-M	0	2199	-18.5	-18.5	0.45 (1)	10.00					
M-L	0	1797	-18.5	-18.5	0.35 (1)	10.00					
L-K	0	1797	-18.5	-18.5	0.35 (1)	10.00					
K-J	0	2199	-18.5	-18.5	0.45 (1)	10.00					
J-I	0	2199	-18.5	-18.5	0.45 (1)	10.00					
I-H	0	0	-18.5	-18.5	0.20 (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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 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

ALLOWABLE DEFL.(LL) = L/360 (1.16")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (1.16")
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")

CS1: TC=0.71 1.00 (A-B:1), BC=0.45/1.00 (M-O:1), W9=0.50/1.00 (A-O:1), SS1=0.26/1.00 (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 818 354 1687 768 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

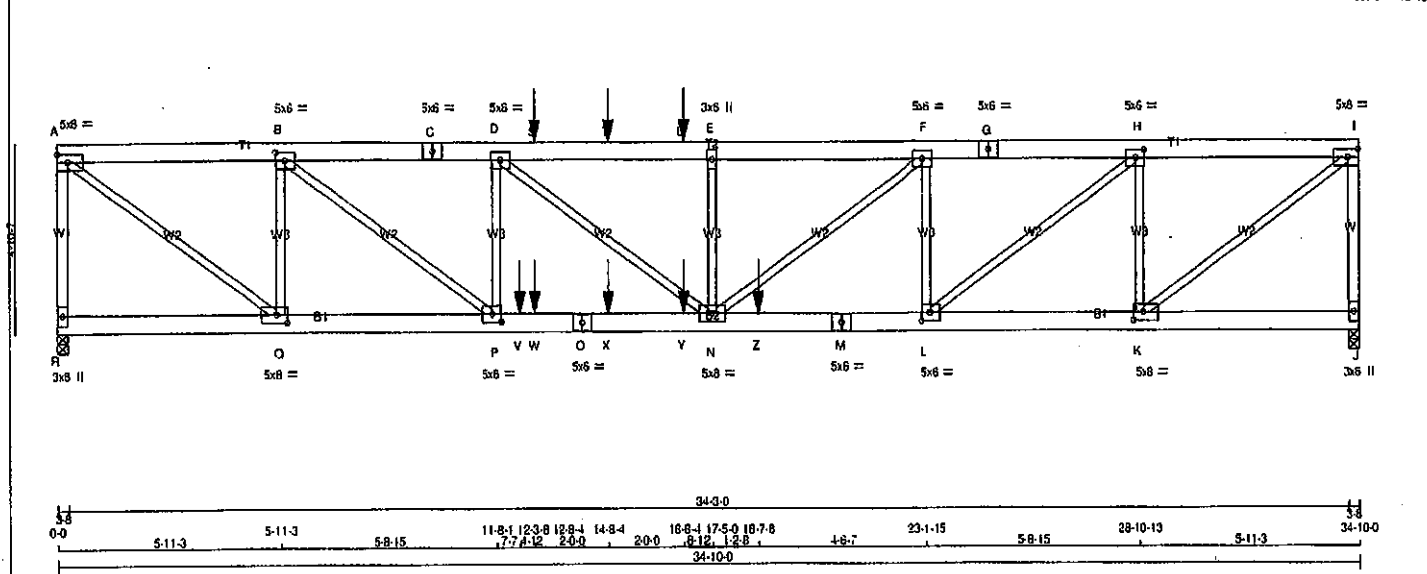
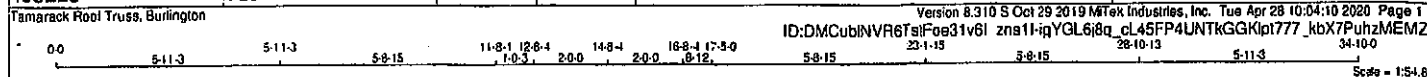
PLATE ROTATION TOL. = 5.6 Deg.

JSI GRIP = 0.84 (I) (INPUT = 0.90)
JSI METAL = 0.66 (N) (INPUT = 1.00)



Structural component only
DWG# T-2007638

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408223	T28	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 10:04:10 2020 Page 1	
				ID:DMCubINVR6TstFoe31v6I zns11-qYGL6j8q_cL45FP4UNTGGKip777_kbX7PuhzMEMZ	



TOTAL WEIGHT = 2 X 183 = 366 lb

LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.	BEARINGS	FACTORED	MAXIMUM FACTORED
R - A	2x4	DRY	No.2	SPF	FACTORED	GROSS REACTION	GROSS REACTION
A - C	2x6	DRY	No.2	SPF	DOWN	VERT	DOWN
C - G	2x6	DRY	No.2	SPF	HORIZ	HORIZ	HORIZ
G - I	2x6	DRY	No.2	SPF	UPLIFT	UPLIFT	UPLIFT
J - L	2x4	DRY	No.2	SPF	IN-SX	IN-SX	IN-SX
L - O	2x6	DRY	No.2	SPF	IN-SX	IN-SX	IN-SX
O - M	2x6	DRY	No.2	SPF	IN-SX	IN-SX	IN-SX
M - J	2x6	DRY	No.2	SPF	IN-SX	IN-SX	IN-SX
ALL WEBS	2x3	DRY	No.2	SPF	IN-SX	IN-SX	IN-SX
DRY: SEASONED LUMBER.					IN-SX	IN-SX	IN-SX

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

FR - A 1 12 TOP

FR - J 1 12 TOP

FR - C 2 12 TOP

FR - G 2 12 TOP

FR - I 2 12 TOP

FR - L 2 12 TOP

FR - O 2 12 TOP

FR - M 2 12 TOP

FR - J 2 12 TOP

FR - I 2 12 TOP

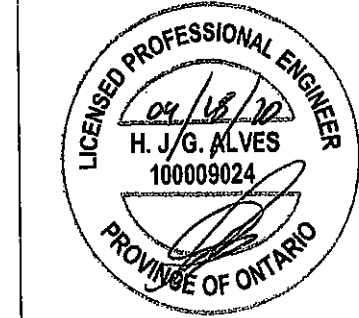
FR - L 2 12 TOP

FR - O 2 12 TOP

FR - M 2 12 TOP

FR - J 2 12 TOP

FR - I 2 12 TOP



Structural component only
DWG# T-2007639 1/2

Continued on page 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408223	T28	1	2	TRUSS DESC.		
Tamarack Roof Truss, Burlington				Version 8.310 S Oct 29 2019 MT&X Industries, Inc. Tue Apr 28 10:04:10 2020 Page 2		

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-I	MT20	5.0	8.0	2.50	3.25
B	TMWW-I	MT20	5.0	8.0	2.50	2.75
C	TS-I	MT20	5.0	8.0		
D	TMWW-I	MT20	5.0	8.0		
E	TMW+W	MT20	3.0	8.0		
F	TMWW-I	MT20	5.0	8.0		
G	TS-I	MT20	5.0	8.0		
H	TMWW-I	MT20	5.0	8.0	2.50	2.75
I	TMVW-I	MT20	5.0	8.0	2.50	3.25
J	BMV1+p	MT20	3.0	8.0		
K	BMWW-I	MT20	5.0	8.0	2.50	3.25
L	BMWW-I	MT20	5.0	8.0	2.50	2.75
M	BS-I	MT20	5.0	8.0		
N	BMWWW-I	MT20	5.0	8.0		
O	BS-I	MT20	5.0	8.0		
P	BMWW-I	MT20	5.0	8.0	2.50	2.75
Q	BMWW-I	MT20	5.0	8.0	2.50	3.25
R	BMV1+p	MT20	3.0	8.0		

CONNECTION REQUIREMENTS

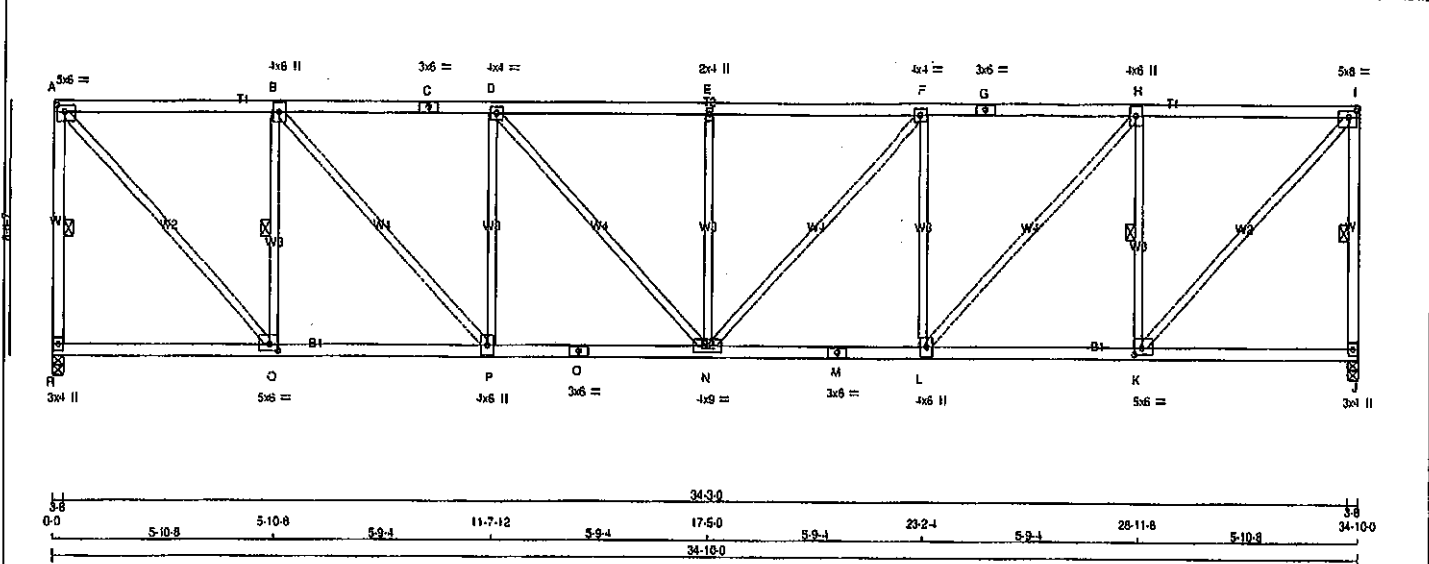
1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2007639 1/2

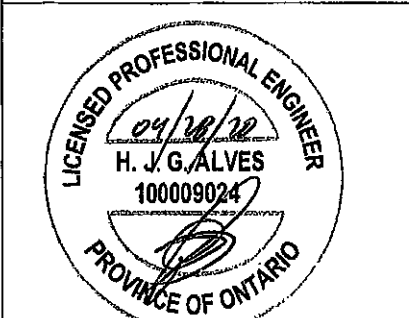
JOB NAME 408223	TRUSS NAME T29	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Tue Apr 28 16:04:11 2020 Page 1
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Scale = 1:54.0



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
R - A	2x4	DRY No.2	SPF
A - C	2x4	DRY No.2	SPF
C - G	2x4	DRY No.2	SPF
G - I	2x4	DRY No.2	SPF
J - I	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			
DRY: SEASONED LUMBER.			

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN Y	X
A TMVW-1	MT20	5.0	8.0	2.00 2.50
B TMVW+1	MT20	4.0	8.0	
C TS-1	MT20	3.0	8.0	
D TMVW-1	MT20	4.0	4.0	
E TMVW+1	MT20	2.0	4.0	
F TMVW-1	MT20	4.0	4.0	
G TS-1	MT20	3.0	8.0	
H TMVW+1	MT20	4.0	8.0	
I TMVW-1	MT20	5.0	8.0	2.00 2.50
J BMV1+p	MT20	3.0	4.0	
K BMVW-1	MT20	5.0	8.0	2.00 2.50
L BMVW+1	MT20	4.0	8.0	
M BS-1	MT20	3.0	8.0	
N BMVW+1	MT20	4.0	8.0	
O BS-1	MT20	3.0	8.0	
P BMVW+1	MT20	4.0	8.0	
Q BMVW-1	MT20	5.0	8.0	2.00 2.50
R BMV1+p	MT20	3.0	4.0	

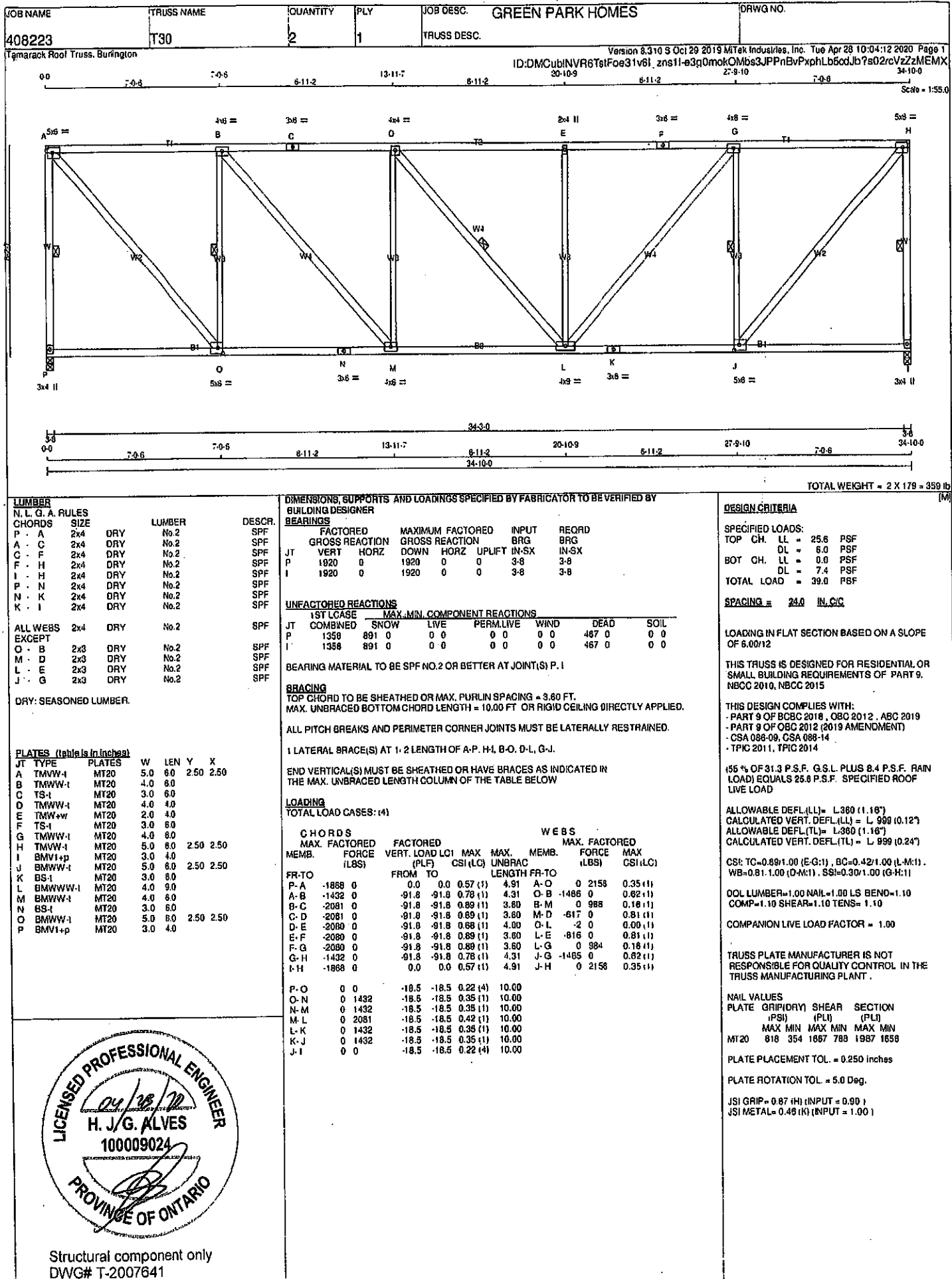


Structural component only
DWG# T-2007640

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				
R	1920	0	1920	0	0	3.8	3.8				
J	1920	0	1920	0	0	3.8	3.8				
UNFACTORED REACTIONS											
1ST LCASE	MAX. MIN. COMPONENT REACTIONS										
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL				
R	1358	891	0	0	0	0	487	0	0		
J	1358	891	0	0	0	0	487	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 = 3.72 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 A-R, I-J, B-Q, H-K.											
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW											
LOADING											
TOTAL LOAD CASES: (4)											
CHORDS											
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)				
FR-TO		FROM TO			FR-TO						
R-A	-1878	0	0.0	0.0 0.37 (1)	A-Q	0	2281	0.51 (1)			
A-B	-1583	0	-91.8	-91.8 0.53 (1)	Q-B	-1540	0	0.43 (1)			
B-C	-2428	0	-91.8	-91.8 0.83 (1)	B-P	0	1272	0.29 (1)			
C-D	-2428	0	-91.8	-91.8 0.83 (1)	P-D	-831	0	0.58 (1)			
D-E	-2725	0	-91.8	-91.8 0.58 (1)	D-N	0	440	0.10 (1)			
E-F	-2725	0	-91.8	-91.8 0.58 (1)	N-E	-539	0	0.58 (1)			
F-G	-2428	0	-91.8	-91.8 0.83 (1)	N-F	0	440	0.10 (1)			
G-H	-2428	0	-91.8	-91.8 0.83 (1)	F-L	-831	0	0.58 (1)			
H-I	-1583	0	-91.8	-91.8 0.53 (1)	L-H	0	1272	0.29 (1)			
J-I	-1878	0	0.0	0.0 0.37 (1)	K-I	-1540	0	0.43 (1)			
I-Q	0	0	-18.5	-18.5 0.15 (4)	10.00						
Q-P	0	1583	-18.5	-18.5 0.33 (1)	10.00						
P-O	0	2428	-18.5	-18.5 0.44 (1)	10.00						
O-N	0	2428	-18.5	-18.5 0.44 (1)	10.00						
N-M	0	2428	-18.5	-18.5 0.44 (1)	10.00						
M-L	0	2428	-18.5	-18.5 0.44 (1)	10.00						
L-K	0	1583	-18.5	-18.5 0.33 (1)	10.00						
K-J	0	0	-18.5	-18.5 0.15 (4)	10.00						

DESIGN CRITERIA	
SPECIFIED LOADS:	
TOP CH. LL	= 25.8 PSF
DL	= 6.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 PSF
SPACING	= 24.0 IN. C/C
LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.08/12	
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, OBC 2012, ABC 2019	
- PART 9 OF OBC 2012 (2019 AMENDMENT)	
- CSA 086-09, CSA 088-14	
- TPIC 2011, TPIC 2014	
155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.8 P.S.F. SPECIFIED ROOF LIVE LOAD	
ALLOWABLE DEFL.(LL) = L/380 (1.16")	
CALCULATED VERT. DEFL.(LL) = L/999 (0.16")	
ALLOWABLE DEFL.(TL) = L/380 (1.16")	
CALCULATED VERT. DEFL.(TL) = L/999 (0.31")	
CS1: TC=0.83/1.00 (F-H:1), BC=0.44/1.00 (N-P:1), WB=0.58/1.00 (I-L:1), SS1=0.25/1.00 (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 1567 788 1997 1556
PLATE PLACEMENT TOL. = 0.250 inches	
PLATE ROTATION TOL. = 5.0 Deg.	
JSI GRIP= 0.87 (A) INPUT = 0.90	
JSI METAL= 0.78 (M) INPUT = 1.00	

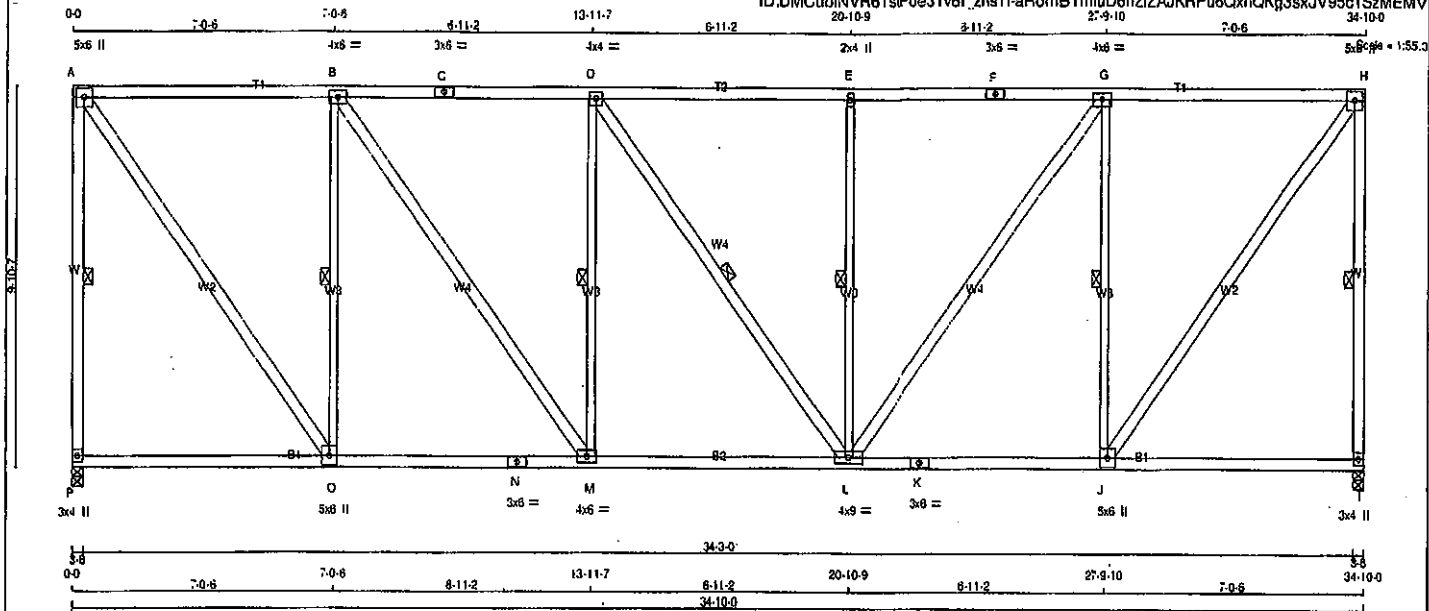
TOTAL WEIGHT = 2 X 157 = 314 lb



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408223	T31	5	1	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 5 X 198 = 991 lb (M)

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

DRY: SEASONED LUMBER.

PLATES (table in inches)					
JT	TYPE	PLATES	W	LEN	Y
A	TMVW+p	MT20	5.0	6.0	
B	TMVW-i	MT20	4.0	6.0	
C	TS-i	MT20	3.0	6.0	
D	TMVW-i	MT20	4.0	4.0	
E	TMVW+w	MT20	2.0	4.0	
F	TS-i	MT20	3.0	6.0	
G	TMVW-i	MT20	4.0	6.0	
H	TMVW+p	MT20	5.0	6.0	
I	BMV-i+p	MT20	3.0	4.0	
J	BMVW-i	MT20	5.0	6.0	
K	BS-i	MT20	3.0	6.0	
L	BMVWV-i	MT20	4.0	9.0	
M	BMVW-i	MT20	4.0	6.0	
N	BS-i	MT20	3.0	6.0	
O	BMVW-i	MT20	5.0	6.0	
P	BMV-i+p	MT20	3.0	4.0	

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

BEARINGS							
	FACTORED		MAXIMUM FACTORED		INPUT		REQD
	GROSS REACTION		GROSS REACTION		BRG		BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
P	1920	0	1920	0	0	3-8	3-8
I	1920	0	1920	0	0	3-8	3-8

UNFACTORED REACTIONS							
	1ST CASE		MAX. MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
P	1358	891	0	0.0	0.0	0	0
I	1358	891	0	0.0	0	0	0

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

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 A-P, H-I, B-O, D-M, D-L, E-L, G-J.

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

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED	FORCE	VERT. LOAD	LC1	MAX. FACTORED	MEMB.	MAX. FACTORED	FORCE	MAX.
	(LBS)	(PLF)	CS1(LC)	UNBRAC			(LBS)	CS1(LC)	
FR-TO	FROM	TO	FROM	TO	FR-TO	FROM	TO	FROM	TO
P-A	-1858	0	0.0	0.0	0.88(1)	4.91	A-O	0	1999
A-B	-1183	0	-91.8	-91.8	0.75(1)	4.69	O-B	-1465	0
B-C	-1719	0	-91.8	-91.8	0.82(1)	3.96	B-M	0	918
C-D	-1719	0	-91.8	-91.8	0.82(1)	3.96	M-D	-617	0
D-E	-1718	0	-91.8	-91.8	0.83(1)	4.37	D-L	-2	0
E-F	-1718	0	-91.8	-91.8	0.83(1)	3.96	L-E	-616	0
F-G	-1718	0	-91.8	-91.8	0.83(1)	3.96	G-O	0	913
G-H	-1183	0	-91.8	-91.8	0.75(1)	4.69	J-G	-1465	0
H-I	-1858	0	0.0	0.0	0.88(1)	4.91	J-H	0	2000
P-O	0	0	-18.5	-18.5	0.22(4)	10.00			
O-N	0	1183	-18.5	-18.5	0.32(4)	10.00			
N-M	0	1183	-18.5	-18.5	0.32(4)	10.00			
M-L	0	1719	-18.5	-18.5	0.36(1)	10.00			
L-K	0	1183	-18.5	-18.5	0.32(4)	10.00			
K-J	0	1183	-18.5	-18.5	0.32(4)	10.00			
J-I	0	0	-18.5	-18.5	0.22(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, 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 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 (1.16")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (1.16")
CALCULATED VERT. DEFL.(TL) = L/999 (0.22")

CS1: TC=0.88/1.00 (H-I), BC=0.36/1.00 (L-M), WB=0.96/1.00 (B-O), SS=0.30/1.00 (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 MIN MAX MIN
MT20 618 354 1667 788 1667 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.85 (H) (INPUT = 0.90)
JSI METAL=0.43 (F) (INPUT = 1.00)



Structural component only
DWG# T-2007642

JOB NAME: TAMARACK ROOF TRUSS
TRUSS NAME: T-32
QUANTITY: 1
PLY: 1
JOB DESC.: GREEN PARK HOMES
DRWG NO.:
ID: DMCubINVR6TsFoe31vdl_znsI1-2dL9OpnHWEeAs8MtlyeRKzCFqhAoVATkprAauZMEMU

TAMARACK ROOF TRUSS, BURLINGTON

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Scale = 1/32"

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

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY; SEASONED LUMBER.

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

BEARING

FACTORED GROSS REACTION	MAXIMUM FACTORED DOWN HORZ	GROSS REACTION UP/LIFT IN-SX MECHANICAL
JT VERT 1233 0	DOWN 1218 0	UP/LIFT 3-8 3-8

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT E MINIMUM BEARING LENGTH AT JOINT E = 3'-0".

UNFACTORED REACTIONS

IST CASE COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL	MAX. MIN. COMPONENT REACTIONS
JT 867 595 0 0 0 0 271 0 0 0	
E 855 588 0 0 0 0 268 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 = 5.77 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	VERT. LOAD LC1 MAX (PLF)	MAX. CS1 (LC) UNBRAC	WEB S	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
FR-TO FROM TO				FR-TO FROM TO		
A-B -853 0 -91.8 -91.3 0.48 (1)	5.66	G-B 0 122 0.03 (1)				
B-C -721 0 -91.8 -91.3 0.07 (1)	8.25	G-F 0 34 0.01 (1)				
C-D -864 0 -91.8 -91.3 0.51 (1)	5.77	F-C 0 154 0.04 (1)				
H-A -1065 0 0.0 0.0 0.17 (1)	7.60	A-G 0 795 0.20 (1)				
E-D -1057 0 0.0 0.0 0.16 (1)	7.63	F-D 0 794 0.20 (1)				

MEMB.	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
I	1-9-4	-172	-172	---	BACK	VERT	TOTAL	---	C1
J	3-9-4	-195	-195	---	BACK	VERT	TOTAL	---	C1
K	5-9-4	-187	-187	---	BACK	VERT	TOTAL	---	C1
L	6-2-12	-187	-187	---	BACK	VERT	TOTAL	---	C1
M	8-2-12	-195	-195	---	BACK	VERT	TOTAL	---	C1
N	10-2-12	-172	-172	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 5.0%/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 (2018 AMENDMENT)
 -CSA 088-09, CSA 088-14
 -TPIC 2011, TPIC 2014

ISS % 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 (0.41")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
 ALLOWABLE DEFL.(TL)= L/360 (0.41")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.51 1.00 (C-D:1), BC=0.28 1.00 (F-G:1).
 WB=0.20 1.00 (A-G:1), SS=0.20 1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) IPILO
 MAX MIN MAX MIN MAX MIN
 MT20 818 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

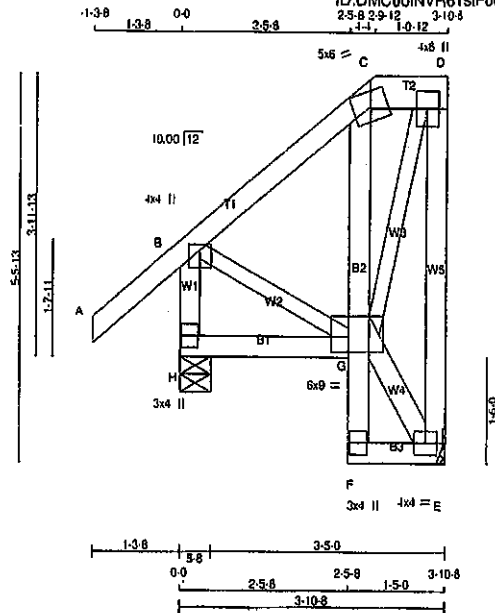
JSI GRIP= 0.78 (O) (INPUT = 0.90)
 JSI METAL= 0.23 (DI) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
 04/26/20
 H. J/G. ALVES
 100009024
 PROVINCE OF ONTARIO

Structural component only
 DWG# T-2007643

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Tue Apr 28 10:04:16 2020 Page 1
siFoe31v6l_zns1l-WqvXc9ovQqMV00iZQkUltXVSIE5FX?ygzTaj6KzMEMT



Scale = 1:30.1

TOTAL WEIGHT = 2 X 32 = 64 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DEGR.
A - C	2x4	DRY No.2	SPF
C - D	2x6	DRY No.2	SPF
E - D	2x4	DRY No.2	SPF
H - B	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 EXCEPT	2x4	DRY No.2	SPF
B - G	2x3	DRY No.2	SPF
G - D	2x3	DRY No.2	SPF

DRY: SEASONED LUMBER.

<u>PLATES (tablets in inches)</u>						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
C	TTV-m	MT20	5.0	6.0		
D	TMVW+p	MT20	4.0	6.0		
E	BMVW-1	MT20	4.0	4.0		
F	BMV+p	MT20	3.0	4.0		
G	BMVWWVW-1	MT20	6.0	9.0	2.50	3.00
H	BMV1+p	MT20	3.0	4.0		

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

REARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
E	214	0	214	0	0	MECHANICAL	
H	341	0	341	0	0	5-8	5-8

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	151	98 0	0 0	0 0	0 0	62 0	0 0
H	239	170 0	0 0	0 0	0 0	69 0	0 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: 15

CHORDS				WEBBS			
MAX. FACTORED		FACTORED		MAX. FACTORED		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LO1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 41	-91.8	-91.8 0.14 (5)	10.00	G-E	-6 0	0.00 (1)
B-C	-62 0	-91.8	-91.8 0.12 (1)	8.25	B-G	0 53	0.01 (1)
C-D	-51 0	-91.8	-91.8 0.01 (1)	8.25	G-D	0 154	0.03 (1)
E-D	-197 0	0.0	0.0 0.10 (1)	7.81			
H-B	-317 0	0.0	0.0 0.03 (1)	7.81			
H-G	0 0	-18.5	-18.5 0.04 (4)	10.00			
F-G	0 13	0.0	0.0 0.01 (1)	10.00			
G-C	-138 0	0.0	0.0 0.01 (1)	7.81			
F-E	0 4	-18.5	-18.5 0.01 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

455 % 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 380 (0.19")
CALCULATED VERT. DEFL.(TL) = L 999 (0.00")

CS: TC=0.14/1.00 (A-B:5) , BC=0.04/1.00 (G-H:4) ,
WB=0.03/1.00 (D-G:1) , SS=0.09/1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER

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	818	354	1687	788	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.24 (B) (INPUT = 0.80)
JSI METAL = 0.06 (B) (INPUT = 1.00)

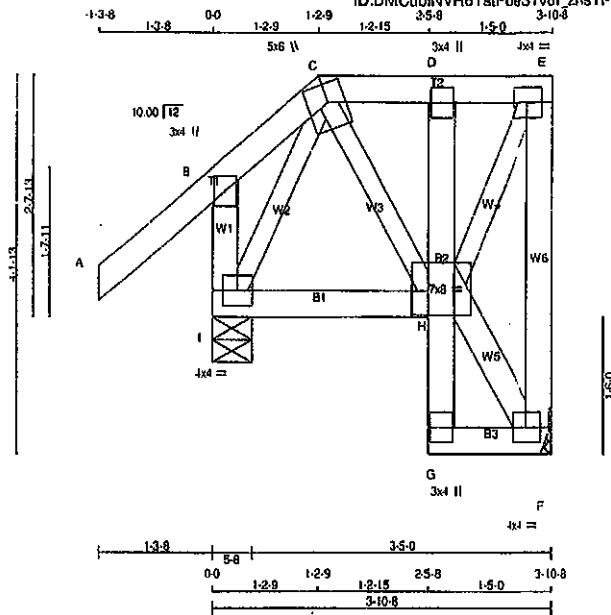


Structural component only
DWG# T-2007644

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408223	T35S	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Tamarack Roof Truss, Burlington

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Scale = 1/2\"/>

TOTAL WEIGHT = 2 X 29 = 57 lb

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

DRY: SEASONED LUMBER.

PLATES (table in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMV+p	MT20	3.0	4.0	
C	TTWW+m	MT20	5.0	6.0	2.50 2.25
D	TMV+p	MT20	3.0	4.0	
E	TMVW+1	MT20	4.0	4.0	
F	BMVW1-1	MT20	4.0	4.0	
G	BMV+p	MT20	3.0	4.0	
H	BMVWW+1	MT20	7.0	6.0	3.25 2.25
I	BMVW1-1	MT20	4.0	4.0	

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

BEARINGS							
FACTORED				MAXIMUM FACTORED		INPUT	
GROSS REACTION				GROSS REACTION		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
F	191	0	191	0	0	MECHANICAL	
I	363	0	363	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	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	135	88	13	0	0	0	0
I	254	183	0	0	0	0	0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)1

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

LOADING									
TOTAL LOAD CASES: (5)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	MAX. UNBRACED LENGTH (FT)	
FR-TO					FR-TO				
A-B	0 41	-91.8	-91.8 0.14 (5)	10.00	H-F	-6 0	0.00 (1)		
B-C	-45 0	-91.8	-91.8 0.14 (5)	8.25	H-E	0 141	0.03 (1)		
C-D	-69 0	-91.8	-91.8 0.02 (1)	8.25	C-H	0 48	0.01 (1)		
D-E	-67 0	-91.8	-91.8 0.02 (1)	8.25	I-C	-96 28	0.02 (1)		
F-E	-175 0	0.0	0.0 0.05 (1)	7.81					
I-B	-255 0	0.0	0.0 0.03 (1)	7.81					
I-H	-13 45	-18.5	-18.5 0.04 (4)	6.25					
G-H	0 13	0.0	0.0 0.01 (1)	10.00					
H-D	-135 0	0.0	0.0 0.01 (1)	7.81					
G-F	0 4	-18.5	-18.5 0.01 (4)	10.00					

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. CC

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

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

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

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

CSI: TC=0.14, 1.00 (A-B:5), BC=0.04, 1.00 (H-I:4), WB=0.03, 1.00 (E-H:1), SSI=0.09, 1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

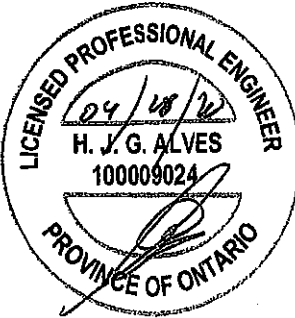
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT

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

PLATE PLACEMENT TOL. = 0.250 inches

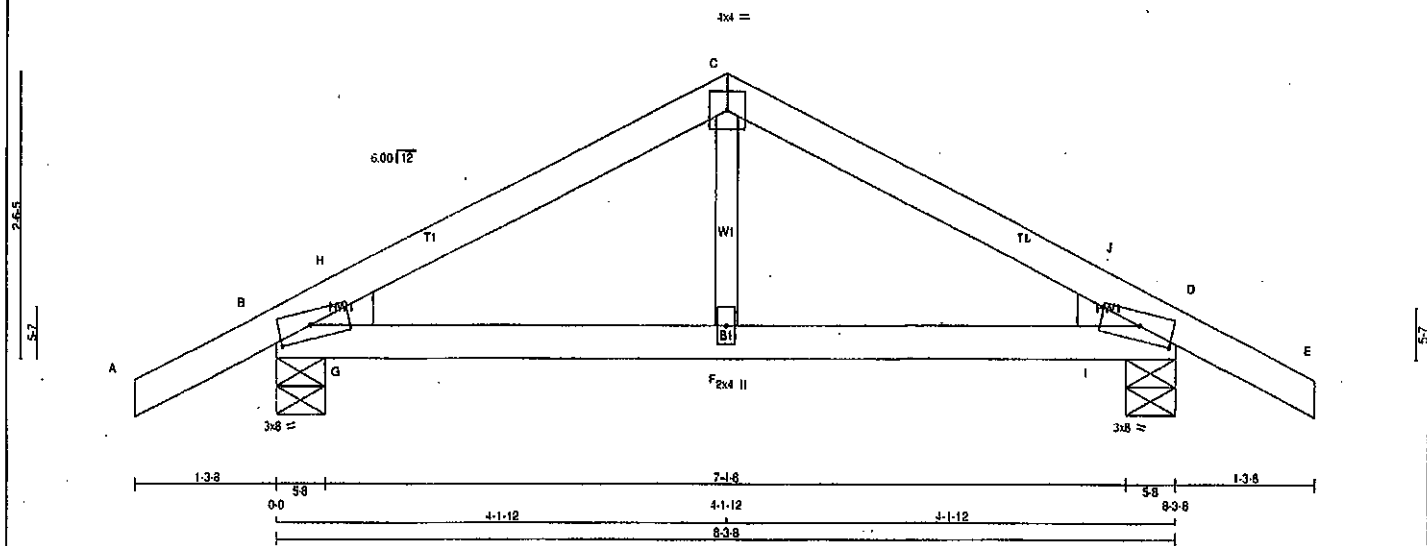
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (E) (INPUT = 0.90)
JSI METAL= 0.09 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007645

JOB NAME 408223	TRUSS NAME T36	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Tue Apr 28 10:04:16 2020 Page 1	ID:DMCubINVR6TslFoe31v6f zns11-TC1H0p9yRcD1KaxY9WL2ybo51j27vNvQn3qBDzMEMR
1-3-8 1-3-8 3-0 3-1-12 4-1-12 3-1-12 8-3-8 1-3-8 9-7-0 Scale = 1:18.9					



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

PLATES (Labels in inches)					
JT	TYPE	PLATES	W	LEN	Y
B	TMBH1-m	MT20	3.0	8.0	1.50
C	TTW-p	MT20	4.0	4.0	3.75
D	TMBH1-m	MT20	3.0	8.0	1.50
F	BMW-w	MT20	2.0	4.0	

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	HORZ	BRG	IN-SX	BRG	IN-SX
B	582	0	582	0	0	5-8	5-8	2x4 L	2x4 R
D	582	0	582	0	0	5-8	5-8	2x4 L	2x4 R

UNFACTORED REACTIONS		1ST CASE		MAX. MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
B	409	282	0	0	0
D	409	282	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: 14)

CHORDS		MAX. FACTORED		FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	LC1 (PL)	MAX. (PL)	MAX. (LC)	MEMB.	FORCE (LBS)	MAX. (LBS)	MAX. (LC)
FR-TO						FR-TO			
A-B	0 23	-91.8	-91.8	0.12 (1)	10.00	F-C	0 170	0.04 (1)	
B-H	-539 0	-91.8	-91.8	0.04 (1)	8.25	G-H	-158 3	0.00 (1)	
H-C	-525 0	-91.8	-91.8	0.15 (1)	8.25	I-J	-158 3	0.00 (1)	
C-J	-525 0	-91.8	-91.8	0.15 (1)	8.25				
J-D	-539 0	-91.8	-91.8	0.04 (1)	8.25				
D-E	0 23	-91.8	-91.8	0.12 (1)	10.00				
B-G	0 485	-18.5	-18.5	0.21 (1)	10.00				
G-F	0 485	-18.5	-18.5	0.21 (1)	10.00				
F-I	0 465	-18.5	-18.5	0.21 (1)	10.00				
I-O	0 495	-18.5	-18.5	0.21 (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. CG

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 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.28")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.28")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.15 (C-J:1), BC=0.21 (F-I:1), WB=0.04 (I-J:1), SS=0.12 (I-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.25 (B) (INPUT = 0.90)
JSI METAL = 0.11 (B) (INPUT = 1.00)



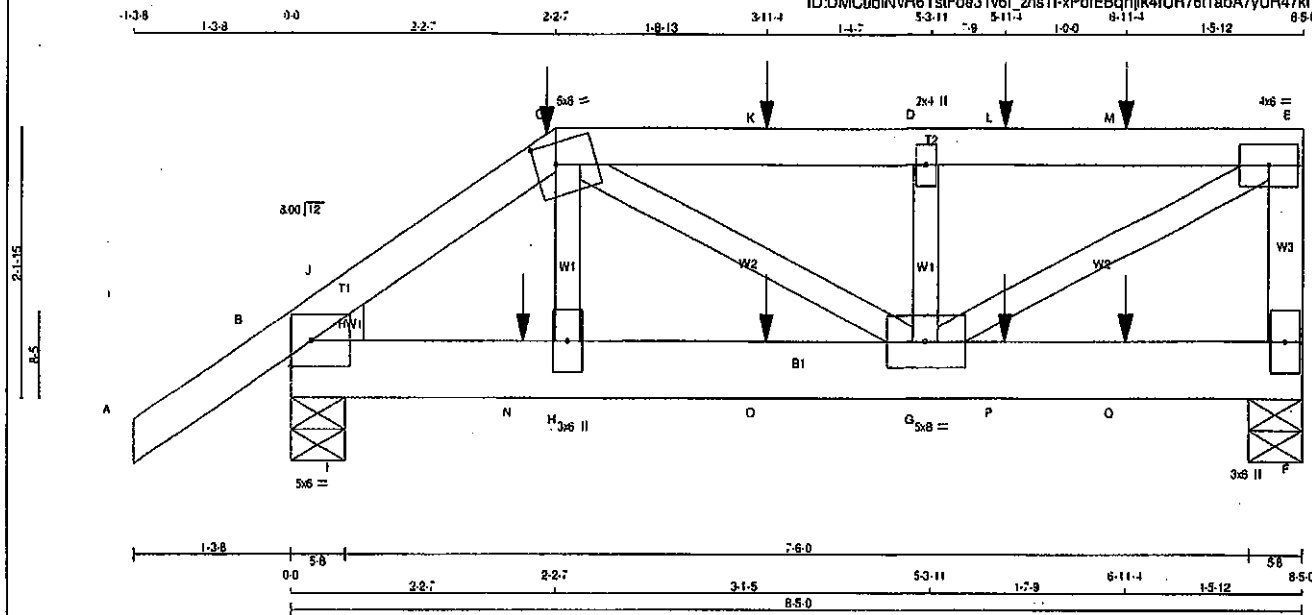
Structural component only
DWG# T-2007646

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408223	T37	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 10:04:19 2020 Page 1
ID:DMCubINVR8TstFoe31v6l_zns11-xPbfEBqjlk4UR761tabA7yUR47kl72RpNjzMEMQ

Scale = 1:17.0



TOTAL WEIGHT = 37 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4 DRY	No.2	SPF		
C - E	2x4 DRY	No.2	SPF		
F - E	2x4 DRY	No.2	SPF		
B - F	2x6 DRY	No.2	SPF		
ALL WEBS	2x3 DRY	No.2	SPF		
DRY: SEASONED LUMBER.					

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMH1-I	MT20	5.0	8.0		Edge
C	TTWW-m	MT20	5.0	6.0	2.00	2.00
D	TMW-w	MT20	2.0	4.0		
E	TMW-I	MT20	4.0	6.0		
F	BMW-I	MT20	3.0	8.0		
G	BMW-W-I	MT20	5.0	8.0		
H	BMW-w	MT20	3.0	6.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG	HEEL WEDGE
F	760 0	760 0	5-8	5-8	
B	823 0	823 0	5-8	5-8	2x4 L

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	COMBINED	352 0	0 0	0 0	0 0	185 0	0 0	0 0
B	COMBINED	392 0	0 0	0 0	0 0	188 0	0 0	0 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.99 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

FR-TO	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 MAX (PLF)	MAX. UNBRACED LENGTH FR-TO	WEBS MAX. FACTORED FORCE (LBS)	MAX. CS(LC)
A-B	0 28	-31.8 -91.8 0.13 (1)	10.00	H-C	0 73
B-J	-1068 0	-31.8 -91.8 0.08 (1)	5.99	C-G	0 252
J-C	-880 0	-31.8 -91.8 0.08 (1)	6.25	G-D	-528 0
C-K	-923 0	-31.8 -91.8 0.24 (1)	6.09	G-E	0 1062
K-D	-923 0	-31.8 -91.8 0.24 (1)	6.09	I-J	0 207
D-L	-924 0	-31.8 -91.8 0.24 (1)	6.09		
L-M	-924 0	-31.8 -91.8 0.24 (1)	6.09		
M-E	-924 0	-31.8 -91.8 0.24 (1)	6.09		
F-E	-682 0	0.0 0.0 0.08 (1)	7.81		
B-I	0 701	-18.5 -18.5 0.14 (1)	10.00		
I-N	0 701	-18.5 -18.5 0.14 (1)	10.00		
N-H	0 701	-18.5 -18.5 0.14 (1)	10.00		
H-O	0 705	-18.5 -18.5 0.15 (1)	10.00		
O-G	0 705	-18.5 -18.5 0.15 (1)	10.00		
G-P	0 0	-18.5 -18.5 0.07 (1)	10.00		
P-Q	0 0	-18.5 -18.5 0.07 (1)	10.00		
Q-F	0 0	-18.5 -18.5 0.07 (1)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
C	2-2.7	-88	-88	FRONT	VERT	TOTAL	---	C1
K	3-11.4	-83	-83	FRONT	VERT	TOTAL	---	C1
L	5-11.4	-83	-83	FRONT	VERT	TOTAL	---	C1
M	6-11.4	-83	-83	FRONT	VERT	TOTAL	---	C1
N	1-11.4	-48	-48	FRONT	VERT	TOTAL	---	C1
O	3-11.4	-48	-48	FRONT	VERT	TOTAL	---	C1
P	5-11.4	-48	-48	FRONT	VERT	TOTAL	---	C1
Q	6-11.4	-48	-48	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

15% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.28")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.28")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.24/1.00 (D-E:1), BC=0.15/1.00 (G-H:1),
WB=0.28/1.00 (E-G:1), SS=0.25/1.00 (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.

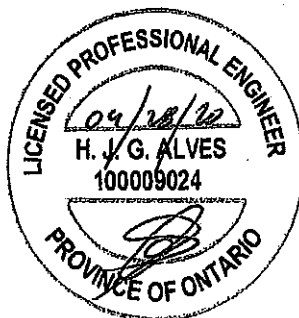
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.61 (E) (INPUT = 0.90)
JSI METAL = 0.24 (E) (INPUT = 1.00)



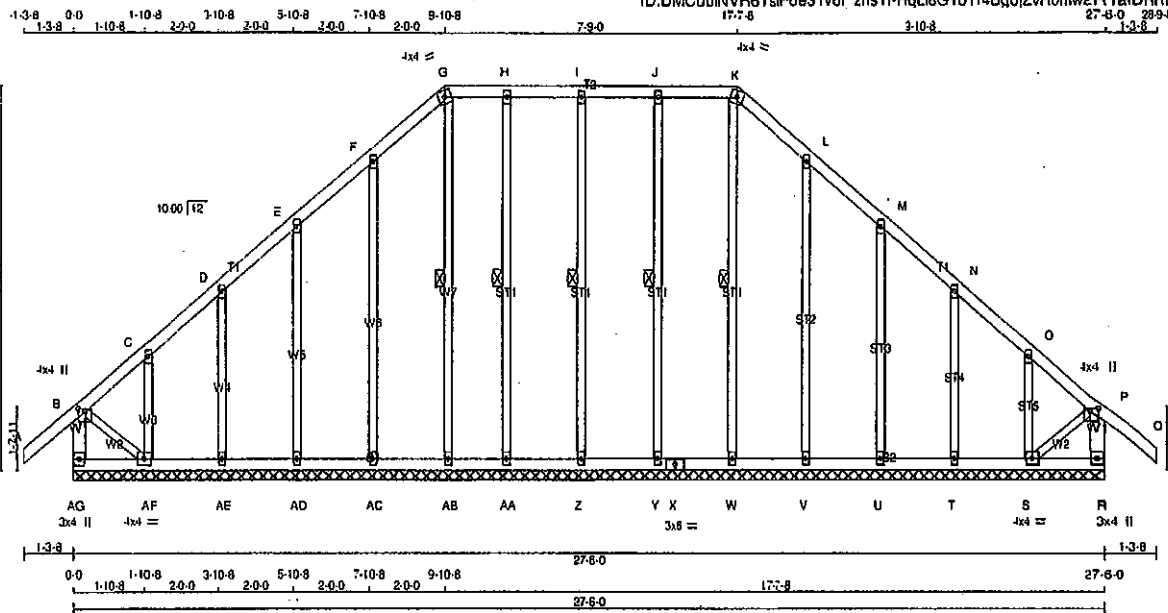
Structural component only
DWG# T-2007647

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408223	G39	2	1	GREEN PARK HOMES	
				TRUSS DESC.	

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TsiFoe31v6I zns11-HqLi8GTyR4Bq0ZvH0mw2R1atDRRBmn_QHLBrzMEM



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

TOTAL WEIGHT = 2 X 152 = 303 lb

LUMBER			
N.L.G.A. RULES	CHORDS	SIZE	LUMBER
AG - B	2x4	DRY	No.2
A - G	2x4	DRY	No.2
G - K	2x4	DRY	No.2
K - O	2x4	DRY	No.2
R - P	2x4	DRY	No.2
AG - X	2x4	DRY	No.2
X - R	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 TMVW+p	MT20	4.0	4.0	1.00 2.00
C, D, E, F, H, I, J, L, M, N, O				
C TMVW+w	MT20	2.0	4.0	
G TTW-m	MT20	4.0	4.0	
K TTW-m	MT20	4.0	4.0	
P TMVW+p	MT20	4.0	4.0	1.00 2.00
R BMV1+p	MT20	3.0	4.0	
S BMVW1-t	MT20	4.0	4.0	
T, U, V, W, Y, Z, AA, AB, AC, AD, AE				
T BMV1+w	MT20	2.0	4.0	
X BS-t	MT20	3.0	6.0	
AF BMVW1-t	MT20	4.0	4.0	
AG BMV1+p	MT20	3.0	4.0	

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

BEARINGS
THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)
BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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.
1 LATERAL BRACE(S) AT 1.2 LENGTH OF K-W, J-Y, J-Z, H-AA, G-AB.
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. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)	
FR-TO		FROM TO		FR-TO			
AG-B	-292 0	0.0 0.0 0.03 (1)	7.81	W-K	-140 0	0.09 (1)	
A-B	0 41	-91.8 -91.8 0.13 (1)	10.00	Y-J	-210 0	0.14 (1)	
B-C	-60 0	-91.8 -91.8 0.12 (1)	6.25	Z-I	-181 0	0.12 (1)	
C-D	-23 0	-91.8 -91.8 0.05 (1)	6.25	AA-H	-182 0	0.12 (1)	
D-E	-26 0	-91.8 -91.8 0.05 (1)	6.25	V-L	-203 0	0.27 (1)	
E-F	-19 0	-91.8 -91.8 0.05 (1)	6.25	U-M	-175 0	0.13 (1)	
F-G	-29 0	-91.8 -91.8 0.05 (1)	6.25	T-N	-192 0	0.07 (1)	
G-H	-12 0	-91.8 -91.8 0.04 (1)	6.25	S-O	-120 0	0.08 (1)	
H-I	-12 0	-91.8 -91.8 0.05 (1)	6.25	AB-G	-121 0	0.08 (1)	
I-J	-12 0	-91.8 -91.8 0.05 (1)	6.25	AC-F	-202 0	0.27 (1)	
J-K	-12 0	-91.8 -91.8 0.05 (1)	6.25	AD-E	-176 0	0.13 (1)	
K-L	-30 0	-91.8 -91.8 0.05 (1)	6.25	AE-D	-192 0	0.07 (1)	
L-M	-19 0	-91.8 -91.8 0.05 (1)	6.25	AF-C	-126 0	0.02 (1)	
M-N	-26 0	-91.8 -91.8 0.05 (1)	6.25	BA-F	0 32	0.01 (1)	
N-O	-24 0	-91.8 -91.8 0.05 (1)	6.25	S-P	0 32	0.01 (1)	
O-P	-60 0	-91.8 -91.8 0.12 (1)	6.25				
P-Q	0 41	-91.8 -91.8 0.13 (1)	10.00				
R-P	-293 0	0.0 0.0 0.03 (1)	7.81				
AG-AF	0 0	-18.5 -18.5 0.02 (4)	10.00				
AF-AE	0 23	-18.5 -18.5 0.02 (4)	10.00				
AE-AD	0 19	-18.5 -18.5 0.02 (4)	10.00				
AD-AC	0 16	-18.5 -18.5 0.02 (4)	10.00				
AC-AB	0 14	-18.5 -18.5 0.02 (4)	10.00				
AB-AA	0 12	-18.5 -18.5 0.01 (4)	10.00				
AA-Z	0 12	-18.5 -18.5 0.02 (4)	10.00				
Z-Y	0 12	-18.5 -18.5 0.02 (4)	10.00				
Y-X	0 12	-18.5 -18.5 0.02 (4)	10.00				
X-W	0 12	-18.5 -18.5 0.02 (4)	10.00				
W-V	0 14	-18.5 -18.5 0.02 (4)	10.00				
V-U	0 16	-18.5 -18.5 0.02 (4)	10.00				
U-T	0 19	-18.5 -18.5 0.02 (4)	10.00				
T-S	0 23	-18.5 -18.5 0.02 (4)	10.00				
S-R	0 0	-18.5 -18.5 0.02 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF
SPACING = 24.0 IN. C/C

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

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

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

CS1: TC=0.13/1.00 (P-Q:1), BC=0.02/1.00 (S-T:4), WB=0.27/1.00 (L-V:1), SS=0.09/1.00 (J-K:1)

COL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10
COMPANION LIVE LOAD FACTOR = 1.00

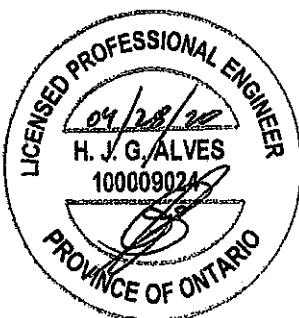
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

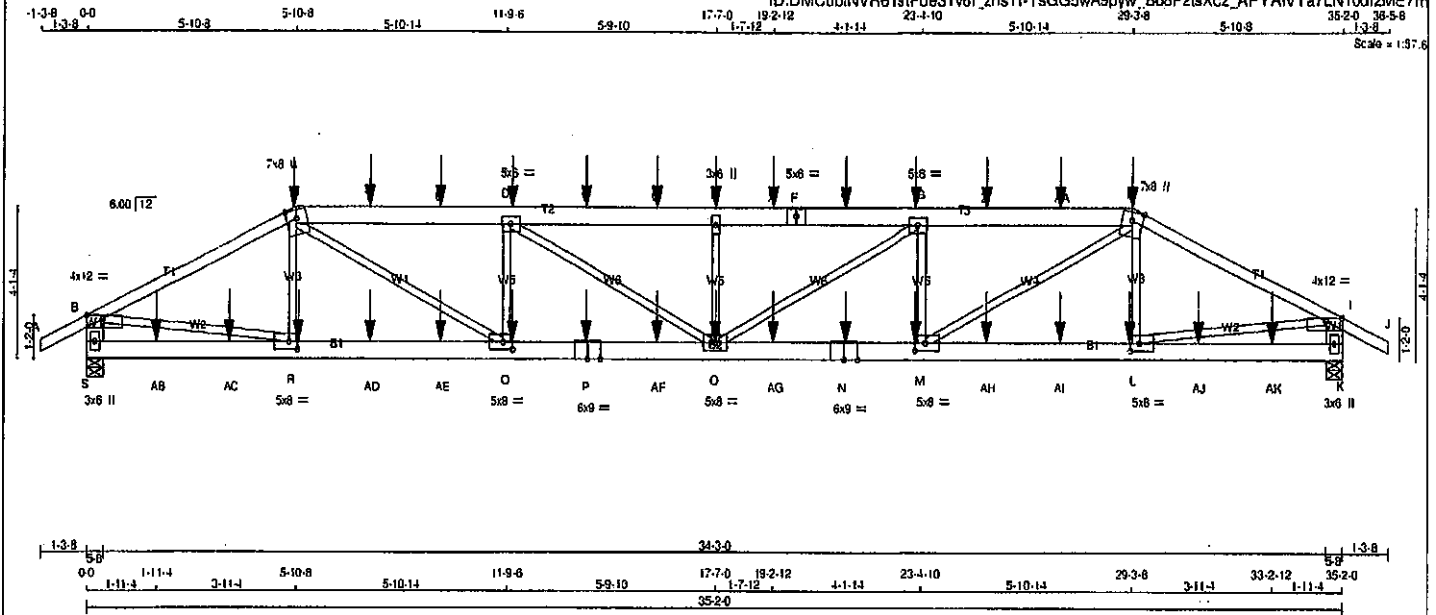
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.62 (K) (INPUT = 0.90)
JSI METAL = 0.11 (L) (INPUT = 1.00)



Structural component only
DWG# T-2007622

JOB NAME 408224	TRUSS NAME T40	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.310 S Oct 29 2019 MTek Industries, Inc. Tue Apr 28 10:19:57 2020 Page 1	
ID:DMCubINVR6TstFoe31v6l_zns1l-TsGG5wA9pyw_Bd8P2lsXcz_APYAIVTa7LN10dlzME7m				Scale = 1:57.6	



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF	
C - F	2x6	DRY	No.2	SPF	
F - H	2x6	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	1650F 1.5E	SPF	
P - N	2x6	DRY	1650F 1.5E	SPF	
N - K	2x6	DRY	1650F 1.5E	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C	12	SIDE (61.0)
H - J	12	SIDE (61.0)
C - F	12	SIDE (183.1)
F - H	12	SIDE (183.1)
S - B	12	TOP
K - I	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
S - P	12	SIDE (183.1)
P - N	12	SIDE (183.1)
N - K	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		MAXIMUM FACTORED		INPUT		REQD.	
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG	IN-SX	IN-SX	IN-SX	IN-SX
S	3323	0	3323	0	0	5-8	5-8	5-8	5-8
K	3323	0	3323	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED						
S	2350	1539	0	0.0	0	0	811
K	2350	1539	0	0.0	0	0	811

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

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MAX. UNBRACED LENGTH (FT)	MEMB.	FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MAX. UNBRACED LENGTH (FT)
FR-TO				FR-TO			
A-B	0 28	-91.8	-91.8 0.07 (1)	10.00	R-C	-413 20	0.05 (1)
B-C	-5068 0	-91.8	-91.8 0.52 (1)	3.87	C-Q	0 3193	0.40 (1)
C-T	-7284 0	-91.8	-91.8 0.27 (1)	4.28	Q-D	-1500 0	0.18 (1)
T-U	-7284 0	-91.8	-91.8 0.27 (1)	4.28	D-O	0 946	0.12 (1)
U-D	-7284 0	-91.8	-91.8 0.27 (1)	4.28	O-E	-830 0	0.10 (1)
D-V	-8084 0	-91.8	-91.8 0.27 (1)	4.08	O-G	0 946	0.12 (1)
V-W	-8084 0	-91.8	-91.8 0.27 (1)	4.08	M-G	-1500 0	0.18 (1)
W-E	-8084 0	-91.8	-91.8 0.27 (1)	4.08	M-H	0 3193	0.40 (1)
E-X	-8084 0	-91.8	-91.8 0.27 (1)	4.08	L-H	-413 20	0.05 (1)
X-F	-8084 0	-91.8	-91.8 0.27 (1)	4.08	B-R	0 4582	0.57 (1)
F-Y	-8084 0	-91.8	-91.8 0.27 (1)	4.08	L-I	0 4582	0.57 (1)
Y-G	-8084 0	-91.8	-91.8 0.27 (1)	4.08			
G-Z	-7284 0	-91.8	-91.8 0.27 (1)	4.28			
Z-AA	-7284 0	-91.8	-91.8 0.27 (1)	4.28			
AA-H	-7284 0	-91.8	-91.8 0.27 (1)	4.28			
H-I	-5065 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	-3248 0	0.0	0.0 0.11 (1)	7.69			
K-I	-3248 0	0.0	0.0 0.11 (1)	7.69			
S-AB	0 0	-18.5	-18.5 0.04 (4)	10.00			
AB-AC	0 0	-18.5	-18.5 0.04 (4)	10.00			
AC-R	0 0	-18.5	-18.5 0.04 (4)	10.00			
R-AD	0 4553	-18.5	-18.5 0.22 (1)	10.00			
AD-AE	0 4553	-18.5	-18.5 0.22 (1)	10.00			
AE-O	0 4553	-18.5	-18.5 0.22 (1)	10.00			
Q-P	0 7283	-18.5	-18.5 0.34 (1)	10.00			
P-AF	0 7283	-18.5	-18.5 0.34 (1)	10.00			
AF-O	0 7283	-18.5	-18.5 0.34 (1)	10.00			
O-AG	0 7283	-18.5	-18.5 0.34 (1)	10.00			
AG-N	0 7283	-18.5	-18.5 0.34 (1)	10.00			
N-M	0 7283	-18.5	-18.5 0.34 (1)	10.00			
MAH	0 4553	-18.5	-18.5 0.22 (1)	10.00			
AH-AI	0 4553	-18.5	-18.5 0.22 (1)	10.00			
AI-L	0 4553	-18.5	-18.5 0.22 (1)	10.00			
L-AJ	0 0	-18.5	-18.5 0.04 (4)	10.00			
AJ-AK	0 0	-18.5	-18.5 0.04 (4)	10.00			
AK-K	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	5-10-8	-428	-428	---	FRONT	VERT	TOTAL	---	C1
D	11-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1

DESIGN CRITERIA

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

SPACING = 24.0 IN. O/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 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 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 6.4 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 (0.39")

CSI: TC=0.52/1.00 (B-C-1), BC=0.34/1.00 (Q-Q-1),
WB=0.57/1.00 (R-R-1), SSI=0.15/1.00 (G-H-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.56 (R) (INPUT = 0.90)
JSI METAL = 0.56 (P) (INPUT = 1.00)



Structural component only
DWG# T-2007660 1/2

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	T40	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	
				Version 8.310 S Oct 29 2019 Mtek Industries, Inc. Tue Apr 28 10:19:57 2020 Page 2	
				ID:DMCubINVR6TsIFoe31v6L zns1I-TsGG5wA9pww Bd8P2lsXgz APYAiVTa7LN10dlzME7m	

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	MT20	4.0	12.0	1.00	5.50
C	TTWW+m	MT20	7.0	8.0	Edge	
D	TMWW-l	MT20	5.0	6.0		
E	TMW+w	MT20	3.0	6.0		
F	TS-l	MT20	5.0	6.0		
G	TMWW-l	MT20	5.0	6.0		
H	TTWW+m	MT20	7.0	8.0	Edge	
I	TMWV-p	MT20	4.0	12.0	1.00	5.50
K	BMV1+p	MT20	3.0	6.0		
L	BMWW-l	MT20	5.0	8.0	2.50	3.00
M	BMWW-l	MT20	5.0	8.0	2.50	3.25
N	BS-l	MT20	6.0	9.0		
O	BMWWV-l	MT20	5.0	8.0		
P	BS-l	MT20	6.0	9.0		
Q	BMWW-l	MT20	5.0	8.0	2.50	3.25
R	BMWW-l	MT20	5.0	8.0	2.50	3.00
S	BMV1+p	MT20	3.0	6.0		

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

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	17-7-0	-110	-110	---	FRONT	VERT	TOTAL	---	C1
G	23-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
H	29-3-8	-429	-429	---	FRONT	VERT	TOTAL	---	C1
L	29-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
M	23-2-12	-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
Q	11-11-4	-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	13-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
W	15-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
X	19-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Y	21-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Z	25-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AA	27-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AB	1-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AC	3-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AD	7-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AE	9-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AF	15-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AG	19-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AH	25-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AI	27-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AJ	31-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AK	33-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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



Structural component only
DWG# T-2007660

[illegible]

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	T40Z	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 10:19:56 2020 Page 2			
		ID:DMCubINVR6TsF0e31v6J_zns1l-x2qeJGB0aF2pnltbcaNm9BWHeyQ8EpcGaImZAtzME7I			
		TRUSS DESC.			

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	MT20	4.0	12.0	1.00	5.50
C	TTWW+m	MT20	7.0	8.0	Edge	
D	TMWW-l	MT20	5.0	6.0		
E	TMW+w	MT20	3.0	6.0		
F	TS-l	MT20	5.0	6.0		
G	TMWW-l	MT20	5.0	6.0		
H	TTWW+m	MT20	7.0	8.0	Edge	
I	TMWV-p	MT20	4.0	12.0	1.00	5.50
K	BMV1+p	MT20	3.0	6.0		
L	BMWW-l	MT20	5.0	8.0	2.50	3.00
M	BMWW-l	MT20	5.0	8.0	2.50	3.25
N	BS-l	MT20	6.0	9.0		
O	BMWWW-l	MT20	5.0	8.0		
P	BS-l	MT20	6.0	9.0		
Q	BMWW-l	MT20	5.0	8.0	2.50	3.25
R	BMWW-l	MT20	5.0	8.0	2.50	3.00
S	BMV1+p	MT20	3.0	6.0		

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

FACTORED CONCENTRATED LOADS (LBS)

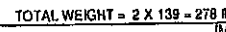
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
Q	11-11-4	-28	-26	---	BACK	VERT	TOTAL	---	C1
T	13-11-4	-110	-110	---	BACK	VERT	TOTAL	---	C1
U	15-11-4	-110	-110	---	BACK	VERT	TOTAL	---	C1
V	18-8-4	-110	-110	---	BACK	VERT	TOTAL	---	C1
W	20-8-4	-159	-159	---	BACK	VERT	TOTAL	---	C1
X	22-8-4	-159	-159	---	BACK	VERT	TOTAL	---	C1
Y	10-7-8	-1171	-1171	---	BACK	VERT	TOTAL	---	C1
Z	15-11-4	-28	-28	---	BACK	VERT	TOTAL	---	C1
AA	18-8-4	-28	-28	---	BACK	VERT	TOTAL	---	C1
AB	20-8-4	-32	-32	---	BACK	VERT	TOTAL	---	C1
AC	22-8-4	-32	-32	---	BACK	VERT	TOTAL	---	C1
AD	24-7-8	-2237	-2237	---	BACK	VERT	TOTAL	---	C1
AE	26-6-12	-121	-121	---	BACK	VERT	TOTAL	---	C1
AF	28-6-12	-121	-121	---	BACK	VERT	TOTAL	---	C1
AG	30-6-12	-121	-121	---	BACK	VERT	TOTAL	---	C1
AH	32-6-12	-121	-121	---	BACK	VERT	TOTAL	---	C1
AI	33-5-4	-121	-121	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

11 C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2007661 7/2



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

BEARINGS

	FACTORED		MAXIMUM FACTORED		INPUT	REQ'D
	GROSS REACTION		GROSS REACTION		BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
S	20#3	0	20#3	0	0	5-8
L	20#3	0	20#3	0	0	5-8

UNFACTORED REACTIONS

	1ST CASE	MAX MIN.		COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
S	1.457	989	0	0	0	.488	0	
L	1.457	989	0	0	0	.488	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.

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 AMENOMENT)
 • 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 (L-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 HEELS OFF

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

NAIL VALUES	GRIP (DRY)		SHEAR		SECTION	
	(PSI)		(PLI)		(PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	818	354	1867	788	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

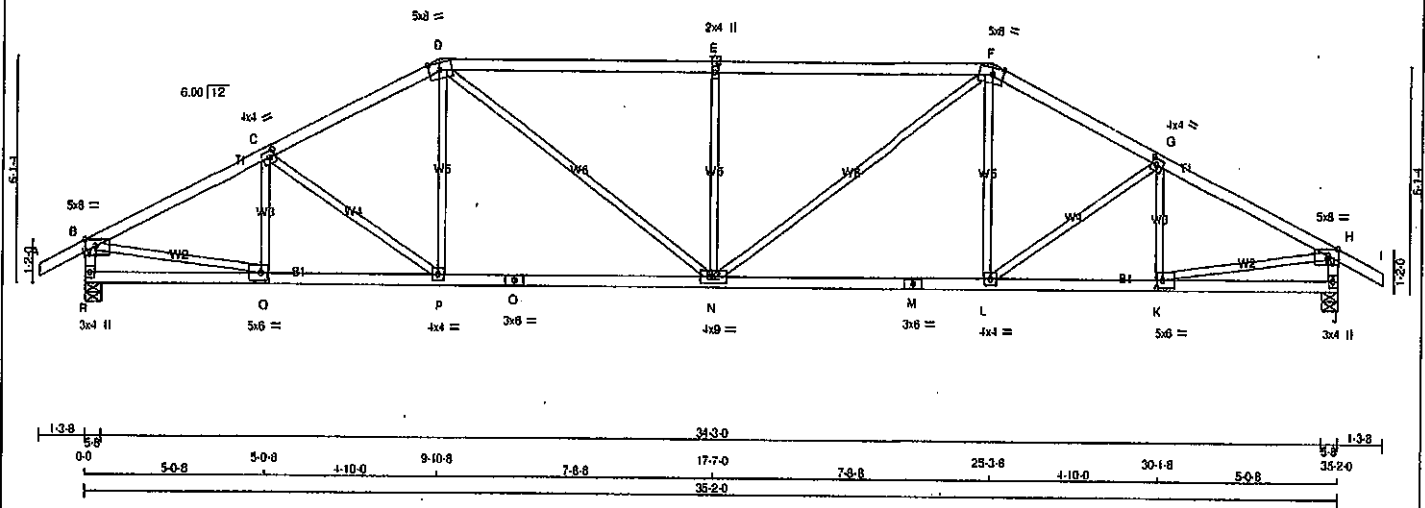
JSI GRIP = 0.89 (L) (INPUT = 0.90)
JSI METAL = 0.77 (N) (INPUT = 1.00)

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26



Structural component only
DWG# T-2007662

JOB NAME 408224	TRUSS NAME T42	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.310 S Oct 28 2019 MTEK Industries, Inc. Tue Apr 28 10:20:01 2020 Page 1			
		ID:DMCubINVR6TslFoe31v6I_zns1H-LdWnxHegIAQPgFSAHixTmP8U9V?RFJIG??En3zME7i			
		Scale = 1:57.6			



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

PLATES (table in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B TMVW-p	MT20	5.0	8.0	Edge	3.50
C TMVW-l	MT20	4.0	4.0	2.00	1.75
D TTWW-m	MT20	5.0	8.0	2.25	3.75
E TMVW-w	MT20	2.0	4.0		
F TTWW-m	MT20	5.0	8.0	2.25	3.75
G TMVW-l	MT20	4.0	4.0	2.00	1.75
H TMVW-p	MT20	5.0	8.0	Edge	3.50
J BMVl+p	MT20	3.0	4.0		
K BMVW-l	MT20	5.0	8.0	2.50	2.00
L BMVW-l	MT20	4.0	4.0		
M BS-l	MT20	3.0	6.0		
N BMVW-l	MT20	4.0	9.0		
O BS-l	MT20	3.0	6.0		
P BMVW-l	MT20	4.0	4.0		
Q BMVW-l	MT20	5.0	8.0	2.50	2.00
R BMVl+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
R	2063	0	2063	0	5-8
J	2063	0	2063	0	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
R	1457	969	0	0	0	0	488	0
J	1457	969	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 = 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		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX (PLF)	MEMB.	FORCE (LBS)	MAX. UNBRACED LENGTH	LC1 MAX (PLF)
FR-TO				FR-TO			
A-B	0 28	-91.8	-91.8 0.12 (1)	Q-C	-353 0	10.00	0.08 (1)
B-C	-2834 0	-91.8	-91.8 0.39 (1)	C-P	-210 0	3.81	0.13 (1)
C-D	-2687 0	-91.8	-91.8 0.37 (1)	P-D	0 246	3.91	0.06 (4)
D-E	-3080 0	-91.8	-91.8 0.97 (1)	D-N	0 844	2.78	0.19 (1)
E-F	-3060 0	-91.8	-91.8 0.97 (1)	N-E	-872 0	2.78	0.51 (1)
F-G	-2687 0	-91.8	-91.8 0.37 (1)	N-F	0 844	3.91	0.19 (1)
G-H	-2834 0	-91.8	-91.8 0.39 (1)	L-F	0 246	3.81	0.06 (4)
H-I	0 28	-91.8	-91.8 0.12 (1)	L-G	-210 0	10.00	0.13 (1)
R-B	-2018 0	0.0	0.0 0.20 (1)	K-G	-353 0	5.94	0.08 (1)
J-H	-2018 0	0.0	0.0 0.20 (1)	B-Q	0 2591	5.94	0.58 (1)
R-Q	0 0	-18.5	-18.5 0.10 (4)	K-H	0 2591	10.00	0.58 (1)
Q-P	0 2555	-18.5	-18.5 0.51 (1)				
P-O	0 2388	-18.5	-18.5 0.49 (1)				
O-N	0 2388	-18.5	-18.5 0.49 (1)				
N-M	0 2388	-18.5	-18.5 0.49 (1)				
M-L	0 2388	-18.5	-18.5 0.49 (1)				
L-K	0 2555	-18.5	-18.5 0.51 (1)				
K-J	0 0	-18.5	-18.5 0.10 (4)				

TOTAL WEIGHT = 2 X 139 = 277 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. OC

LOADING IN FLAT SECTION BASED ON A SLOPE OF 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 2018, OBC 2012, ABC 2019
- PART 9 OF OSC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 086-14
- TPIC 2011, TPIC 2014

155% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD EQUALS 25.6 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: TO=0.97 (1.00) (D-E:1), BC=0.51 (1.00) (P-Q:1), WS=0.50 (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

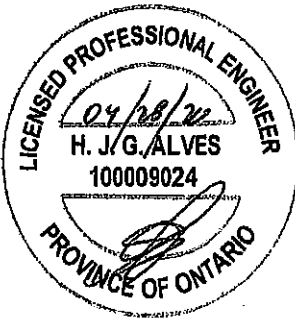
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

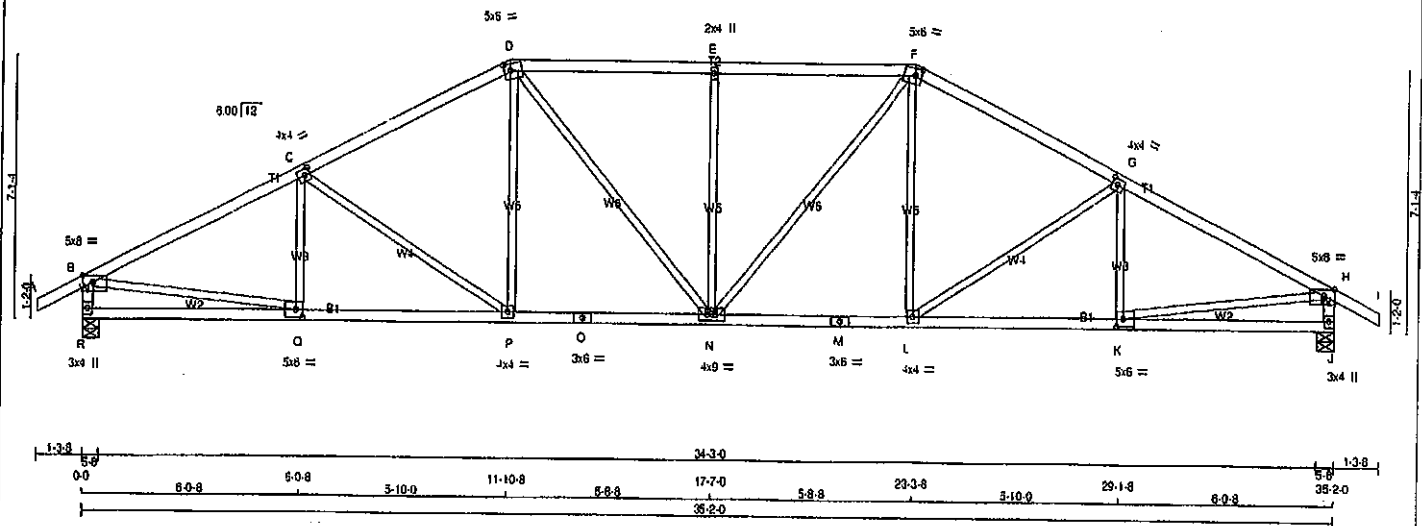
JSI GRIP = 0.87 (F) (INPUT = 0.90)
JSI METAL = 0.75 (M) (INPUT = 1.00)



Structural component only
DWG# T-2007663

JOB NAME 408224	TRUSS NAME T43	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TstFoe31v6I_zns11-q498dElaUYGHO1NqSIJh7BZVAIQsViknJVzME7h
Scale = 1:57.6



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
E - F	2x4	DRY	No.2
G - I	2x4	DRY	No.2
J - K	2x4	DRY	No.2
L - O	2x4	DRY	No.2
P - Q	2x4	DRY	No.2
R - S	2x4	DRY	No.2
T - U	2x4	DRY	No.2
V - W	2x4	DRY	No.2
X - Y	2x4	DRY	No.2
Z	2x4	DRY	No.2

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

PLATES (table in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW-p	MT20	5.0	8.0 Edge 3.50
C	TMWW-l	MT20	4.0	4.0 2.00 1.75
D	TTWW-m	MT20	5.0	8.0 2.25 2.00
E	TMW-w	MT20	2.0	4.0
F	TTWW-m	MT20	5.0	8.0 2.25 2.00
G	TMWW-l	MT20	4.0	4.0 2.00 1.75
H	TMVW-p	MT20	5.0	8.0 Edge 3.50
I	BMVl+p	MT20	3.0	4.0
K	BMWW-l	MT20	5.0	8.0 2.50 2.25
L	BMWW-l	MT20	4.0	4.0
M	BS-l	MT20	3.0	8.0
N	BMWWW-l	MT20	4.0	8.0
O	BS-l	MT20	3.0	8.0
P	BMWW-l	MT20	4.0	4.0
Q	BMWW-l	MT20	5.0	8.0 2.50 2.25
R	BMVl+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 REQD BRG
JT	VERT	HORZ	DOWN
R	2063	0	2063
J	2063	0	2063

UNFACTORED REACTIONS

JT	1ST CASE	MAX MIN. COMPONENT REACTIONS							
R	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL		
J	1457	989	0	0	0	0	0	0	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLINE 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

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. FACTORED FORCE (LBS)
FR-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	-2889 0	-91.8	-91.8 0.53 (1)	3.58	C-P	-435 0	0.42 (1)
C-D	-2539 0	-91.8	-91.8 0.52 (1)	3.83	P-D	0 350	0.08 (1)
D-E	-2559 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	N-E	-841 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	-2889 0	-91.8	-91.8 0.53 (1)	3.58	L-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)	5.95	K-G	-255 12	0.07 (1)
J-H	-2014 0	0.0	0.0 0.20 (1)	5.95	B-Q	0 2835	0.59 (1)
R-Q	0 0	-18.5	-18.5 0.15 (4)	10.00	K-H	0 2835	0.59 (1)
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 = 8.0 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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

55% OF 31.3 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.28")

GS: TC=0.58/1.00 (G-H:1), SC=0.49/1.00 (K-L:1), WB=0.59/1.00 (H-K: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.

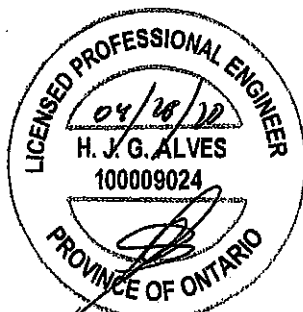
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

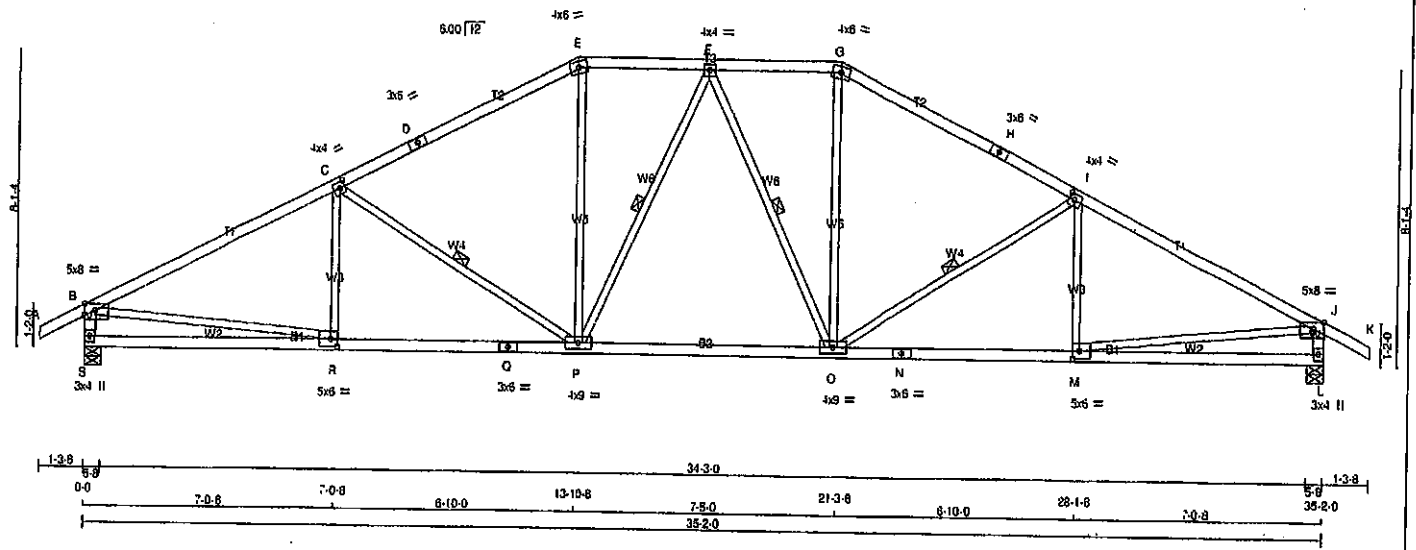
JSI GRIP = 0.89 (Q) (INPUT = 0.90)

JSI METAL = 0.69 (M) (INPUT = 1.00)



Structural component only
DWG# T-2007664

JOB NAME 408224	TRUSS NAME T44	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.310 S Oct 29 2019 MTek Industries, Inc. Tue Apr 28 10:20:03 2020 Page 1		
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				Scale = 1:50.3		



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
S - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
Q - O	2x4	DRY	No.2
O - N	2x4	DRY	No.2
N - L	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMWW-p	MT20	5.0	8.0	Edge	3.50
C TMWW-i	MT20	4.0	4.0	2.00	1.75
D TS-i	MT20	3.0	6.0		
E TTW-m	MT20	4.0	6.0		
F TMWW-i	MT20	4.0	4.0		
G TTW-m	MT20	4.0	6.0		
H TS-i	MT20	3.0	6.0		
I TMWW-i	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-i	MT20	5.0	6.0	2.50	2.25
N BS-i	MT20	3.0	6.0		
O BMWW-i	MT20	4.0	9.0		
P BMWW-i	MT20	4.0	9.0		
Q BS-i	MT20	3.0	6.0		
R BMWW-i	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

FACTORED		MAXIMUM FACTORED		INPUT		REQD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
S	2063	0	2063	0	5-8	5-8	
L	2063	0	2063	0	5-8	5-8	

UNFACTORED REACTIONS

1ST LCASE	MAX. MIN.	COMPONENT REACTIONS					
JT COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
S	1457	969	0	0	0	0	0
L	1457	969	0	0	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, I-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)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LCI MAX	MEMB.	FORCE (LBS)	MAX. UNBRACED LENGTH	MAX. FACTORED
FR-TO		FROM TO	CSI (LC)	FR-TO			CSI (LC)
A-B	0 28	-91.8	-91.8 0.12 (1)	10.00	R-C	-182 52	0.08 (1)
B-C	-2906 0	-91.8	-91.8 0.83 (1)	3.25	C-P	-637 0	0.29 (1)
C-D	-2373 0	-91.8	-91.8 0.72 (1)	3.66	P-E	0 674	0.15 (1)
D-E	-2373 0	-91.8	-91.8 0.72 (1)	3.66	F-F	-222 0	0.11 (1)
E-F	-2100 0	-91.8	-91.8 0.19 (1)	4.53	F-O	-222 0	0.11 (1)
F-G	-2100 0	-91.8	-91.8 0.19 (1)	4.53	O-G	0 674	0.15 (1)
G-H	-2373 0	-91.8	-91.8 0.72 (1)	3.66	O-I	-637 0	0.29 (1)
H-I	-2373 0	-91.8	-91.8 0.72 (1)	3.66	I-J	-182 52	0.08 (1)
I-J	-2906 0	-91.8	-91.8 0.83 (1)	3.25	B-R	0 2649	0.80 (1)
J-K	0 28	-91.8	-91.8 0.12 (1)	10.00	M-J	0 2649	0.80 (1)
S-B	-2008 0	0.0	0.0 0.20 (1)	5.96			
L-J	-2008 0	0.0	0.0 0.20 (1)	5.96			
S-R	0 0	-18.5	-18.5 0.20 (4)	10.00			
R-Q	0 2630	-18.5	-18.5 0.52 (1)	10.00			
O-P	0 2630	-18.5	-18.5 0.52 (1)	10.00			
P-Q	0 2183	-18.5	-18.5 0.45 (1)	10.00			
O-N	0 2630	-18.5	-18.5 0.52 (1)	10.00			
N-M	0 2630	-18.5	-18.5 0.52 (1)	10.00			
M-L	0 0	-18.5	-18.5 0.20 (4)	10.00			

TOTAL WEIGHT = 2 X 145 = 291 lb (M)

DESIGN CRITERIA

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

SPACING = 24.0 IN. CC

LOADING IN FLAT SECTION BASED ON A SLOPE OF 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 086-14
- TPIC 2011, TPIC 2014

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 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 (0.30')

CS: TC=0.83/1.00 (I-J:1), BC=0.52/1.00 (M-O:1), WB=0.60/1.00 (J-M:1), SS=0.28/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

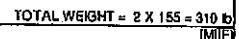
PLATE PLACEMENT TOL. = 0.250 inches

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-2007665

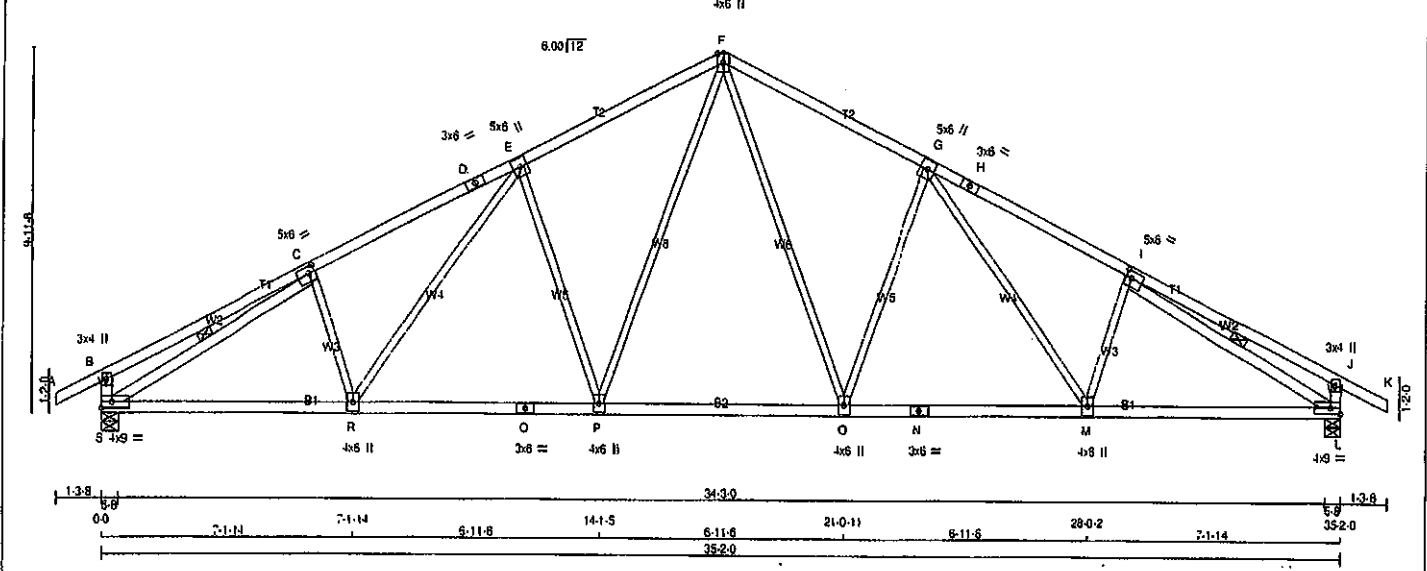


JSI GRIP = 0.89 (F) (INPUT = 0.90)
JSI METAL = 0.83 (O) (INPUT = 1.00)



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	T46	8	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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 352.0 36.5.8 1.3.8
 Scale = 1:50.2



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF	
F - F	2x4	DRY	No.2	SPF	
H - H	2x4	DRY	No.2	SPF	
K - K	2x4	DRY	No.2	SPF	
S - B	2x4	DRY	No.2	SPF	
L - J	2x4	DRY	No.2	SPF	
S - O	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+p	MT20	3.0	4.0			
C	TMWW-1	MT20	5.0	6.0	2.25	2.00	
D	TS-1	MT20	3.0	6.0			
E	TMWW+1	MT20	5.0	6.0			
F	TTWW+p	MT20	4.0	8.0	Edge		
G	TMWW+1	MT20	5.0	6.0			
H	TS-1	MT20	3.0	6.0			
I	TMWW-1	MT20	5.0	6.0	2.25	2.00	
J	TMV+p	MT20	3.0	4.0			
L	BMVW1-1	MT20	4.0	9.0	Edge		
M, O, P, R							
N	BS-1	MT20	4.0	6.0			
Q	BS-1	MT20	3.0	6.0			
S	BMVW1-1	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 GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	VERT	HORZ	DOWN	HORZ
S	2083	0	2083	0
L	2083	0	2083	0

UNFACTORED REACTIONS	1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW
S	1457	989.0
L	1457	989.0

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, L

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED (PLF)	MAX. FACTORED (PLF)	UNBRACED LENGTH	FR-TO	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED (PLF)
A-B	0	28	-91.8	-91.8	0.12 (1)	10.00	F-O	0	866	0.19 (1)	
B-C	0	22	-91.8	-91.8	0.40 (1)	10.00	G-M	-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	866	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	-3064	0	0.72 (1)	
J-K	0	28	-91.8	-91.8	0.12 (1)	10.00	I-L	-3064	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-O	0	2291	-18.5	-18.5	0.47 (1)	10.00					
O-P	0	2291	-18.5	-18.5	0.47 (1)	10.00					
P-Q	0	1762	-18.5	-18.5	0.38 (1)	10.00					
Q-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					

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 25.8 PSF
 DL = 8.0 PSF
 BOY 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, NBCO 2010, NBCO 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

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

ALLOWABLE DEFL.(LL) = L/300 (1.17')
 CALCULATED VERT. DEFL.(LL) = L/999 (0.14')
 ALLOWABLE DEFL.(TL) = L/300 (1.17')
 CALCULATED VERT. DEFL.(TL) = L/999 (0.22')

CSI: TC=0.49/1.00 (C-E:1), BC=0.53/1.00 (L-M:1), WB=0.72/1.00 (E-P:1), SS=0.22/1.00 (I-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

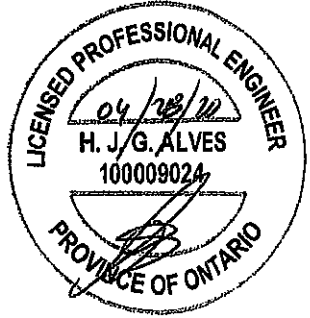
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES	PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354	1667
	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 (1) (INPUT = 1.00)



Structural component only
 DWG# T-2007667



TOTAL WEIGHT = 2 X 51 = 102 lb

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 at 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,
NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BOBC 2018 , OBC 2012 , ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)

- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

155 1/2 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 DEFLECTION = 1.360 (0.352)

CALCULATED VERT. DEFL.(LL) = L 999 (0.01")
ALLOWABLE DEFL.(TL) = L 380 (0.35")

CSI: TC=0.22/1.00 (B-C:1), BC=0.46/1.00 (H-I:4).

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00

COMP=1.10 SHEAR=1.10 TENS=1.10

COMBINATION 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)	(PLI)	
MAX. MIN.	MAX. MIN.	MAX. MIN.	MAX. MIN.

	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	788	1987	1656

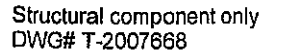
PLATE ROTATION TOL. = 5.0 Deg

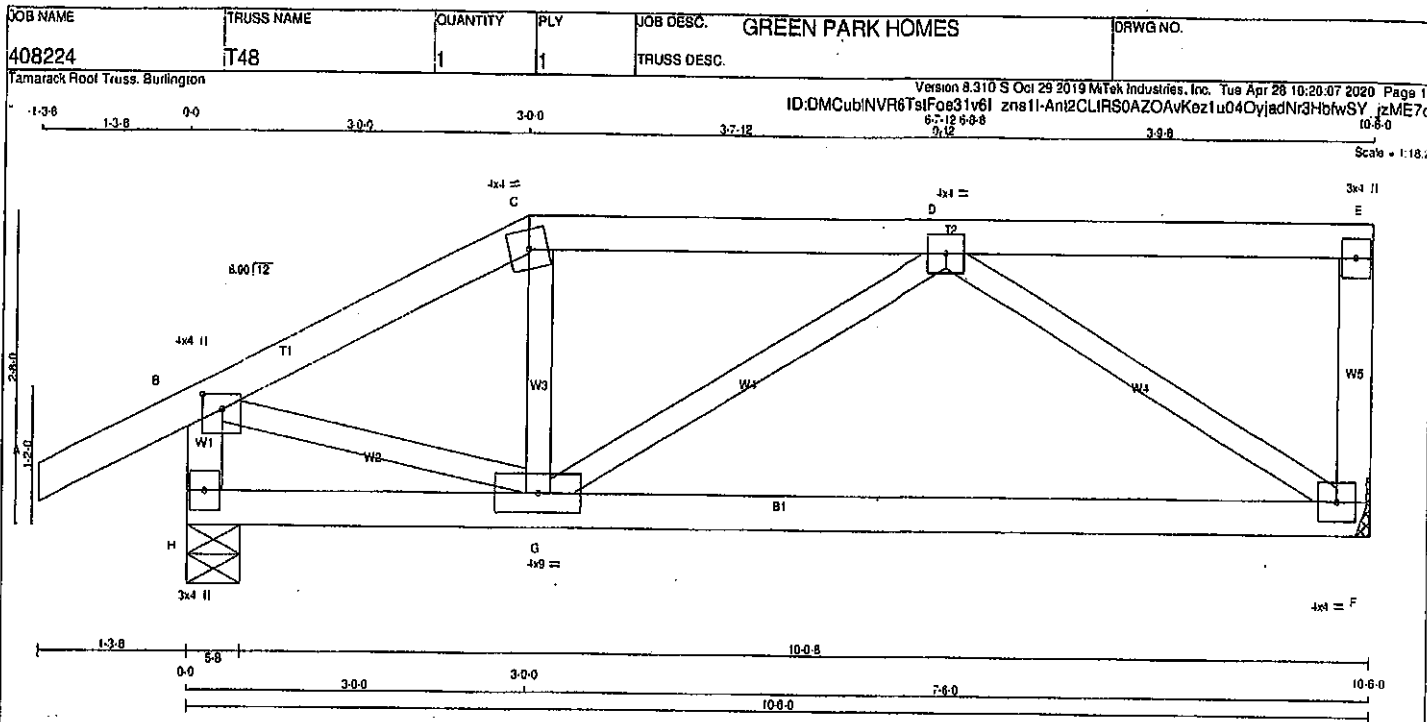
JSI GRIP = 0.77 (H) INPUT = 0.90
JSI METAL = 0.20 (F) INPUT = 0.20

SS/METAL=0.50 (E)INPOT = 1.00 |

$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$ $\frac{1}{16} \times \frac{1}{16} = \frac{1}{256}$ $\frac{1}{256} \times \frac{1}{256} = \frac{1}{65,536}$ $\frac{1}{65,536} \times \frac{1}{65,536} = \frac{1}{4,294,967,296}$ $\frac{1}{4,294,967,296} \times \frac{1}{4,294,967,296} = \frac{1}{18,446,744,073,709,551,616}$	$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$ $\frac{1}{16} \times \frac{1}{16} = \frac{1}{256}$ $\frac{1}{256} \times \frac{1}{256} = \frac{1}{65,536}$ $\frac{1}{65,536} \times \frac{1}{65,536} = \frac{1}{4,294,967,296}$ $\frac{1}{4,294,967,296} \times \frac{1}{4,294,967,296} = \frac{1}{18,446,744,073,709,551,616}$
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1. *Journal of the American Medical Association*, 1997; 277: 1033-1037.





LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.50	2.00
C	TTW+m	MT20	4.0	4.0		
D	TMVW-i	MT20	4.0	4.0		
E	TMV+p	MT20	3.0	4.0		
F	BMVW-i	MT20	4.0	4.0		
G	BMVW-i	MT20	4.0	9.0		
H	BMV+p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
F	579	0	579	0	MECHANICAL	
H	703	0	703	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 CASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	409	269	0	0.0	0.0	141	0
H	495	338	0	0.0	0.0	157	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 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 (PLF)	CS1 (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX CS1 (LC)
FR-TO		FROM	TO	LENGTH	FR-TO		
A-B	0 28	-91.8	-91.8 0.12 (1)	10.00	G-C	0 61	0.02 (4)
B-C	-835 0	-91.8	-91.8 0.15 (1)	6.25	G-D	-61 60	0.02 (4)
C-D	-589 0	-91.8	-91.8 0.21 (1)	6.25	D-F	-731 0	0.23 (1)
D-E	0 0	-91.8	-91.8 0.20 (1)	10.00	B-G	0 587	0.13 (1)
E-F	-135 0	0.0	0.0 0.02 (1)	7.81			
F-B	-699 0	0.0	0.0 0.07 (1)	7.81			
H-G	0 0	-18.5	-18.5 0.21 (4)	10.00			
G-F	0 619	-18.5	-18.5 0.25 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 8.0 PSF
BOT CH. LL = 8.0 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 NBCC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.35")
CALCULATED VERT. DEFL.(LL) = L.999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = L.999 (0.09")

CS1: TC=0.21-1.00 (C-D:1), BC=0.25-1.00 (F-G:4), WB=0.23-1.00 (D-F:1), SS1=0.17-1.00 (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 (PSD) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1658

PLATE PLACEMENT TOL = 0.250 inches

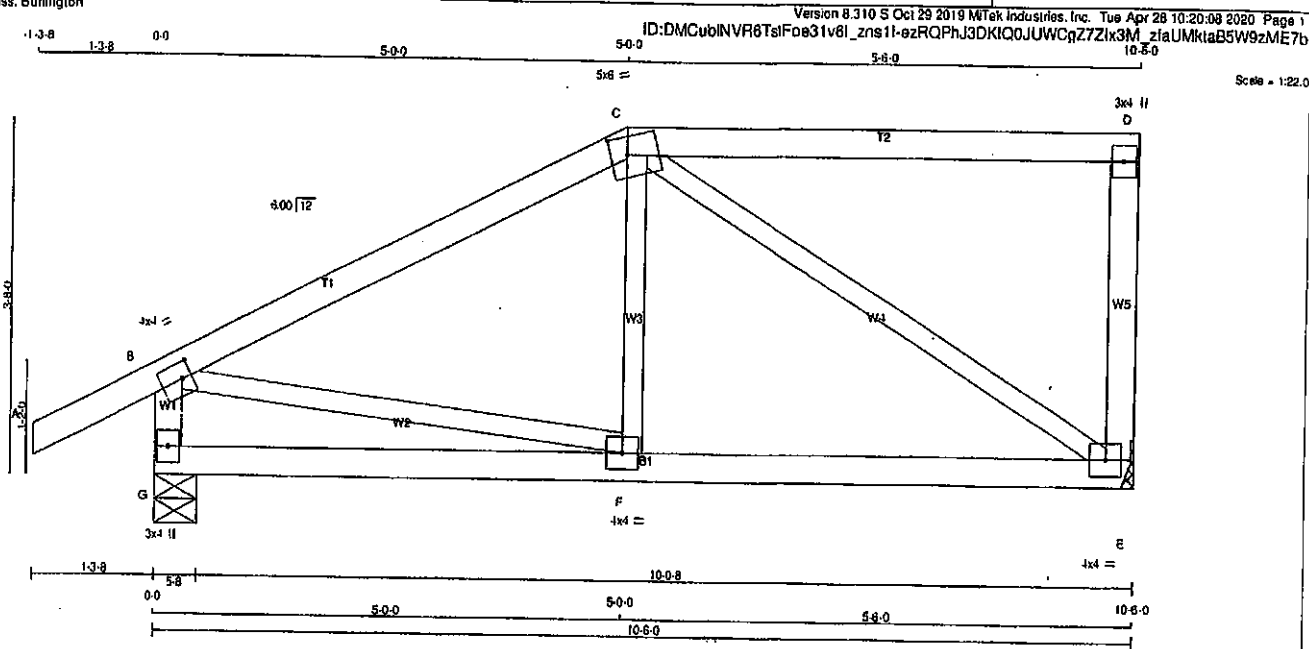
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.88 (B) (INPUT = 0.90)
JSI METAL = 0.23 (F) (INPUT = 1.00)



Structural component only
DWG# T-2007669

JOB NAME 408224	TRUSS NAME T49	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



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

DRY, SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMW-1	MT20	4.0	4.0	2.00 1.25
C	TTWW-m	MT20	5.0	6.0	2.25 2.00
D	TMV-p	MT20	3.0	4.0	
E	BMVW-1	MT20	4.0	4.0	
F	BMVW-1	MT20	4.0	4.0	
G	BMV-1-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	HORZ	GROSS REACTION	HORZ	BRG	BRG	IN-SX	IN-SX
E	579	0	579	0	0	MECHANICAL			
G	703	0	703	0	0	5-8	5-8		

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	COMBINED	409	269 0	0 0	0 0	0 0	141 0	0 0
G	495	338 0	0 0	0 0	0 0	0 0	157 0	0 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS(LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS(LC)	
FR-TO		FROM TO	LENGTH FR-TO	FR-TO			
A-B	0 28	-91.8	-91.8 0.12 (1)	10.00	F-C	0 108	0.04 (4)
B-C	-523 0	-91.8	-91.8 0.41 (1)	6.25	C-E	-549 0	0.37 (1)
C-D	0 0	-91.8	-91.8 0.47 (1)	10.00	B-F	0 474	0.11 (1)
E-D	-252 0	0.0	0.0 0.05 (1)	7.81			
G-B	-667 0	0.0	0.0 0.07 (1)	7.81			
G-F	0 0	-18.5	-18.5 0.14 (4)	10.00			
F-E	0 468	-18.5	-18.5 0.19 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. 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 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.35")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.47 1.00 (C-D:1), .8C=0.19/1.00 (E-F:4), WB=0.37 1.00 (C-E:1), SSI=0.20/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

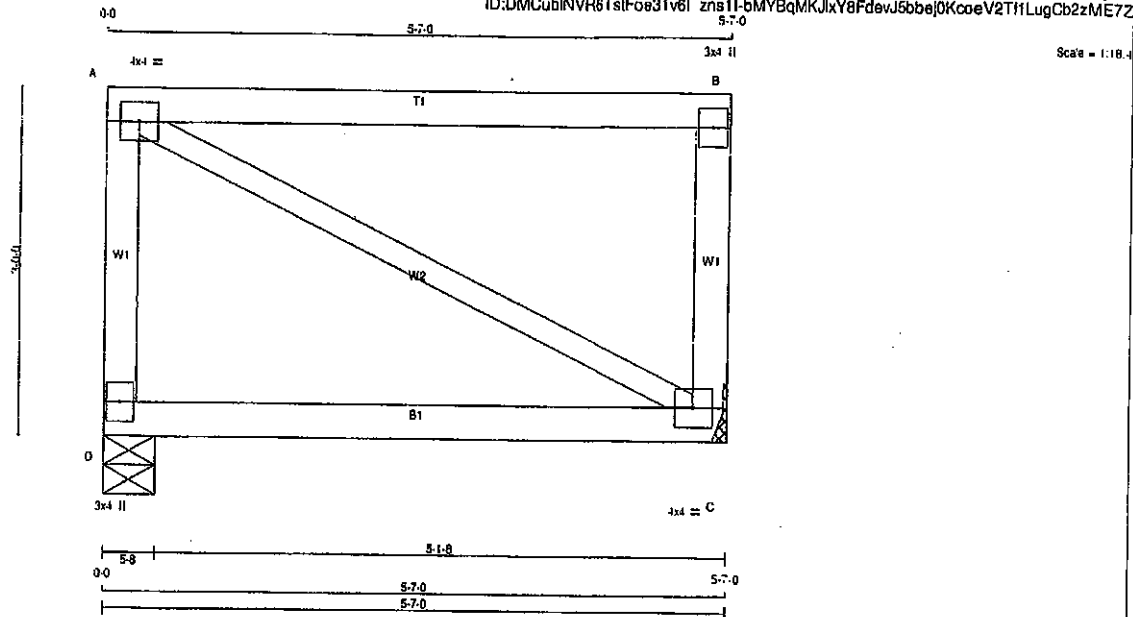
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.85 (B) (INPUT = 0.90)
JSI METAL = 0.26 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007670

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ID:DMCubiNVR6TsiFoe3iv6l zns11-bMYBqMKJlxY8FdevJ5bbej0KcoeV2THLugCb2zME7Z



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

PLATES (tablets in inches)					
JT	TYPE	PLATES	W	LEN	Y
A	TMVW-t	MT20	4.0	4.0	
B	TMV+p	MT20	3.0	4.0	
C	BMVW1-t	MT20	4.0	4.0	
D	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
D	371	0	371	0	0	5-B	5-B
C	371	0	371	0	0	MECHANICAL	

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

UNFACTORED REACTIONS

1ST CASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERMLIVE	WIND	DEAD	SOIL
O	268	143 0	0 0	0 0	0 0	125 0	0 0
C	268	143 0	0 0	0 0	0 0	125 0	0 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRAC. LENGTH	MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	
FR-TO		FROM TO			FR-TO		FROM TO		
D-A	-319 0	0.0 0.0	0.06 (1)	7.81					
A-B	0 0	-114.3 -114.3	0.81 (1)	10.00	A-C	0 0		0.00 (1)	
C-B	-319 0	0.0 0.0	0.06 (1)	7.81					
D-C	0 0	-18.5 -18.5	0.23 (4)	10.00					

TOTAL WEIGHT = 2 X 23 = 46 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.8	PSF
	OL	=	15.0	PSF
BOY CH.	LL	=	0.0	PSF
	OL	=	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,
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

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN
LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF
LIVE LOAD

ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.81/1.00 (A-B:1), 8C=0.23/1.00 (C-D:4),
WB=0.00/1.00 (A-C:1), SS=0.33/1.00 (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	
	(PSI)	(PLI)	(PLI)	(PLI)	(PLI)	(PLI)
MT20	618	354	1667	788	1987	1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.25 (A) (INPUT = 0.80)
JSI METAL= 0.07 (A) (INPUT = 1.00)



Structural component only
DWG# T-2007671

JOB NAME

408224

TRUSS NAME

G50

QUANTITY

1

PLY

1

JOB DESC.

GREEN PARK HOMES

DRWG NO.

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TstFoe31v6I zns11-eiv?r18OD69qTthFcl7MlkFo7CC5I2EzRaiQszME7s

3-0

5-7-0

5-7-0

A

B

C

D

3x4 II

2x4 II

2x4 II

3x4 II

W1

ST1

ST1

W1

H

G

F

E

3x4 II

2x4 II

2x4 II

3x4 II

5-7-0

5-7-0

5-7-0

Scale = 1:18.1

LUMBER

N. L. G. A. RULES

CHORDS SIZE LUMBER

H - A 2x4 DRY No.2

A - D 2x4 DRY No.2

E - D 2x4 DRY No.2

H - E 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.

DESCR.

SPF

SPF

SPF

SPF

SPF

SPF

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

MAX. FACTORED

FACTORED

VERT. LOAD LC1 MAX

CSI (LC)

UNBRAC

MEMB. FORCE (LBS)

FROM TO LENGTH FR-TO

H-A -101 0 0.0 0.03 (1) 7.81

A-B -8 0 -114.3 -114.3 0.08 (1) 10.00

B-C -8 0 -114.3 -114.3 0.08 (1) 10.00

C-D -8 0 -114.3 -114.3 0.08 (1) 10.00

E-D -80 0 0.0 0.03 (1) 7.81

H-G 0 8 -18.5 -18.5 0.02 (4) 10.00

G-F 0 8 -18.5 -18.5 0.02 (4) 10.00

F-E 0 8 -18.5 -18.5 0.02 (4) 10.00

WEBS

MAX. FACTORED

MEMB. FORCE (LBS)

MAX

CSI (LC)

G-B -248 0 0.08 (1)

F-C -209 0 0.05 (1)

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. OC

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 088-09, CSA 088-14

TPIC 2011, TPIC 2014

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.08/1.00 (A-B:1), BC=0.02/1.00 (G-H:4), WB=0.08/1.00 (B-G: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

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 618 354 1667 788 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL = 0.07 (G) (INPUT = 1.00)

24/28/20

H. J. G. ALVES

100009024

LICENSED PROFESSIONAL ENGINEER

PROVINCE OF ONTARIO

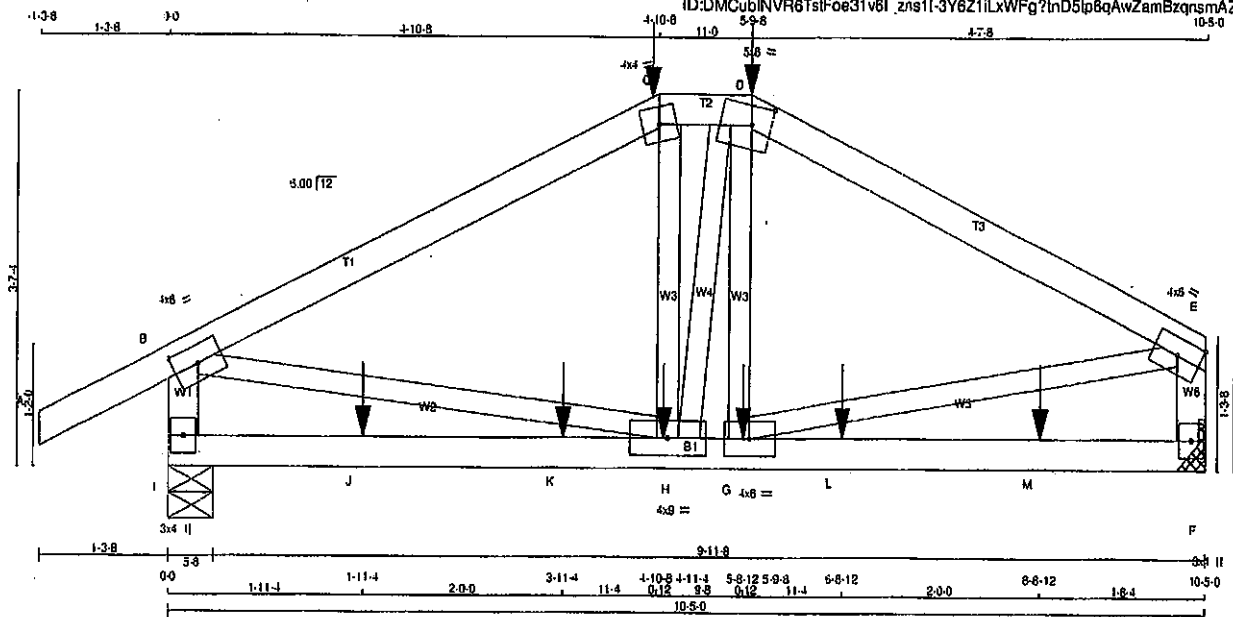
Structural component only

DWG# T-2007656

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	T51	1	1	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

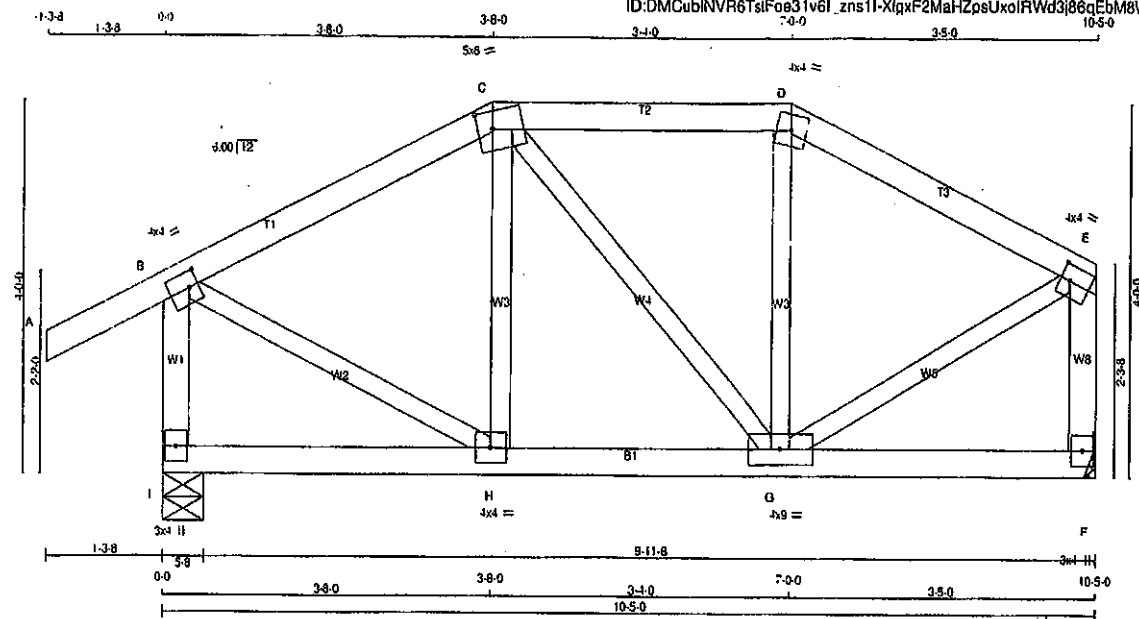
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Scale = 1:20.5

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF		
C - D	2x4	DRY	No.2	SPF		
D - E	2x4	DRY	No.2	SPF		
E - F	2x4	DRY	No.2	SPF		
F - G	2x4	DRY	No.2	SPF		
G - 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 - AA	2x4	DRY	No.2	SPF		
AA - AB	2x4	DRY	No.2	SPF		
AB - AC	2x4	DRY	No.2	SPF		
AC - AD	2x4	DRY	No.2	SPF		
AD - AE	2x4	DRY	No.2	SPF		
AE - AF	2x4	DRY	No.2	SPF		
AF - AG	2x4	DRY	No.2	SPF		
AG - AH	2x4	DRY	No.2	SPF		
AH - AI	2x4	DRY	No.2	SPF		
AI - AJ	2x4	DRY	No.2	SPF		
AJ - AK	2x4	DRY	No.2	SPF		
AK - AL	2x4	DRY	No.2	SPF		
AL - AM	2x4	DRY	No.2	SPF		
AM - AN	2x4	DRY	No.2	SPF		
AN - AO	2x4	DRY	No.2	SPF		
AO - AP	2x4	DRY	No.2	SPF		
AP - AQ	2x4	DRY	No.2	SPF		
AQ - AR	2x4	DRY	No.2	SPF		
AR - AS	2x4	DRY	No.2	SPF		
AS - AT	2x4	DRY	No.2	SPF		
AT - AU	2x4	DRY	No.2	SPF		
AU - AV	2x4	DRY	No.2	SPF		
AV - AW	2x4	DRY	No.2	SPF		
AW - AX	2x4	DRY	No.2	SPF		
AX - AY	2x4	DRY	No.2	SPF		
AY - AZ	2x4	DRY	No.2	SPF		
AZ - BA	2x4	DRY	No.2	SPF		
BA - BB	2x4	DRY	No.2	SPF		
BB - BC	2x4	DRY	No.2	SPF		
BC - BD	2x4	DRY	No.2	SPF		
BD - BE	2x4	DRY	No.2	SPF		
BE - BF	2x4	DRY	No.2	SPF		
BF - BG	2x4	DRY	No.2	SPF		
BG - BH	2x4	DRY	No.2	SPF		
BH - BI	2x4	DRY	No.2	SPF		
BI - BJ	2x4	DRY	No.2	SPF		
BJ - BK	2x4	DRY	No.2	SPF		
BK - BL	2x4	DRY	No.2	SPF		
BL - BM	2x4	DRY	No.2	SPF		
BM - BN	2x4	DRY	No.2	SPF		
BN - BO	2x4	DRY	No.2	SPF		
BO - BP	2x4	DRY	No.2	SPF		
BP - BQ	2x4	DRY	No.2	SPF		
BQ - BR	2x4	DRY	No.2	SPF		
BR - BS	2x4	DRY	No.2	SPF		
BS - BT	2x4	DRY	No.2	SPF		
BT - BU	2x4	DRY	No.2	SPF		
BU - BV	2x4	DRY	No.2	SPF		
BV - BW	2x4	DRY	No.2	SPF		
BW - BX	2x4	DRY	No.2	SPF		
BX - BY	2x4	DRY	No.2	SPF		
BY - BZ	2x4	DRY	No.2	SPF		
BZ - CA	2x4	DRY	No.2	SPF		
CA - CB	2x4	DRY	No.2	SPF		
CB - CC	2x4	DRY	No.2	SPF		
CC - CD	2x4	DRY	No.2	SPF		
CD - CE	2x4	DRY	No.2	SPF		
CE - CF	2x4	DRY	No.2	SPF		
CF - CG	2x4	DRY	No.2	SPF		
CG - CH	2x4	DRY	No.2	SPF		
CH - CI	2x4	DRY	No.2	SPF		
CI - CJ	2x4	DRY	No.2	SPF		
CJ - CK	2x4	DRY	No.2	SPF		
CK - CL	2x4	DRY	No.2	SPF		
CL - CM	2x4	DRY	No.2	SPF		
CM - CN	2x4	DRY	No.2	SPF		
CN - CO	2x4	DRY	No.2	SPF		
CO - CP	2x4	DRY	No.2	SPF		
CP - CQ	2x4	DRY	No.2	SPF		
CQ - CR	2x4	DRY	No.2	SPF		
CR - CS	2x4	DRY	No.2	SPF		
CS - CT	2x4	DRY	No.2	SPF		
CT - CU	2x4	DRY	No.2	SPF		
CU - CV	2x4	DRY	No.2	SPF		
CV - CW	2x4	DRY	No.2	SPF		
CW - CX	2x4	DRY	No.2	SPF		
CX - CY	2x4	DRY	No.2	SPF		
CY - CZ	2x4	DRY	No.2	SPF		
CZ - DA	2x4	DRY	No.2	SPF		
DA - DB	2x4	DRY	No.2	SPF		
DB - DC	2x4	DRY	No.2	SPF		
DC - DD	2x4	DRY	No.2	SPF		
DD - DE	2x4	DRY	No.2	SPF		
DE - DF	2x4	DRY	No.2	SPF		
DF - DG	2x4	DRY	No.2	SPF		
DG - DH	2x4	DRY	No.2	SPF		
DH - DI	2x4	DRY	No.2	SPF		
DI - DJ	2x4	DRY	No.2	SPF		
DJ - DK	2x4	DRY	No.2	SPF		
DK - DL	2x4	DRY	No.2	SPF		
DL - DM	2x4	DRY	No.2	SPF		
DM - DN	2x4	DRY	No.2	SPF		
DN - DO	2x4	DRY	No.2	SPF		
DO - DP	2x4	DRY	No.2	SPF		
DP - DQ	2x4	DRY	No.2	SPF		
DQ - DR	2x4	DRY	No.2	SPF		
DR - DS	2x4	DRY	No.2	SPF		
DS - DT	2x4	DRY	No.2	SPF		
DT - DU	2x4	DRY	No.2	SPF		
DU - DV	2x4	DRY	No.2	SPF		
DV - DW	2x4	DRY	No.2	SPF		
DW - DX	2x4	DRY	No.2	SPF		
DX - DY	2x4	DRY	No.2	SPF		
DY - DZ	2x4	DRY	No.2	SPF		
DZ - EA	2x4	DRY	No.2	SPF		
EA - EB	2x4	DRY	No.2	SPF		
EB - EC	2x4	DRY	No.2	SPF		
EC - ED	2x4	DRY	No.2	SPF		
ED - EE	2x4	DRY	No.2	SPF		
EE - EF	2x4	DRY	No.2	SPF		
EF - EG	2x4	DRY	No.2	SPF		
EG - EH	2x4	DRY	No.2	SPF		
EH - EI	2x4	DRY	No.2	SPF		
EI - EJ	2x4	DRY	No.2	SPF		
EJ - EK	2x4	DRY	No.2	SPF		
EK - EL	2x4	DRY	No.2	SPF		
EL - EM	2x4	DRY	No.2	SPF		
EM - EN	2x4	DRY	No.2	SPF		
EN - EO	2x4	DRY	No.2	SPF		
EO - EP	2x4	DRY	No.2	SPF		
EP - EQ	2x4	DRY	No.2	SPF		
EQ - ER	2x4	DRY	No.2	SPF		
ER - ES	2x4	DRY	No.2	SPF		
ES - ET	2x4	DRY	No.2	SPF		
ET - EU	2x4	DRY	No.2	SPF		
EU - EV	2x4	DRY	No.2	SPF		
EV - EW	2x4	DRY	No.2	SPF		
EW - EX	2x4	DRY	No.2	SPF		
EX - EY	2x4	DRY	No.2	SPF		
EY - EZ	2x4	DRY	No.2	SPF		
EZ - FA	2x4	DRY	No.2	SPF		
FA - FB	2x4	DRY	No.2	SPF		
FB - FC	2x4	DRY	No.2	SPF		
FC - FD	2x4	DRY	No.2	SPF		
FD - FE	2x4	DRY	No.2	SPF		
FE - FF	2x4	DRY	No.2	SPF		
FF - FG	2x4	DRY	No.2	SPF		
FG - FH	2x4	DRY	No.2	SPF		
FH - FI	2x4	DRY	No.2	SPF		
FI - FJ	2x4	DRY	No.2	SPF		
FJ - FK	2x4	DRY	No.2	SPF		
FK - FL	2x4	DRY	No.2	SPF		
FL - FM	2x4	DRY	No.2	SPF		
FM - FN	2x4	DRY	No.2	SPF		
FN - FO	2x4	DRY	No.2	SPF		
FO - FP	2x4	DRY	No.2	SPF		
FP - FQ	2x4	DRY	No.2	SPF		
FQ - FR	2x4	DRY	No.2	SPF		
FR - FS	2x4	DRY	No.2	SPF		
FS - FT	2x4	DRY	No.2	SPF		
FT - FU	2x4	DRY	No.2	SPF		
FU - FV	2x4	DRY	No.2	SPF		
FV - FW	2x4	DRY	No.2	SPF		
FW - FX	2x4	DRY	No.2	SPF		
FX - FY	2x4	DRY	No.2	SPF		
FY - FZ	2x4	DRY	No.2	SPF		
FZ - GA	2x4	DRY	No.2	SPF		
GA - GB	2x4	DRY	No.2	SPF		
GB - GC	2x4	DRY	No.2	SPF		
GC - GD	2x4	DRY	No.2	SPF		
GD - GE	2x4	DRY	No.2	SPF		
GE - GF	2x4	DRY	No.2	SPF		
GF - GG	2x4	DRY	No.2	SPF		
GG - GH	2x4	DRY	No.2	SPF		
GH - GI	2x4	DRY	No.2	SPF		
GI - GJ	2x4	DRY	No.2	SPF		
GJ - GK	2x4	DRY	No.2	SPF		
GK - GL	2x4	DRY	No.2	SPF		
GL - GM	2x4	DRY	No.2	SPF		
GM - GN	2x4	DRY	No.2	SPF		
GN - GO	2x4	DRY	No.2	SPF		
GO - GP	2x4	DRY	No.2	SPF		
GP - GQ	2x4	DRY	No.2	SPF		
GQ - GR	2x4	DRY	No.2	SPF		
GR - GS	2x4	DRY	No.2	SPF		
GS - GT	2x4	DRY	No.2	SPF		
GT - GU	2x4	DRY	No.2	SPF		
GU - GV	2x4	DRY	No.2	SPF		
GV - GW	2x4	DRY	No.2	SPF		
GW - GX	2x4	DRY	No.2	SPF		
GX - GY	2x4	DRY	No.2	SPF		
GY - GZ	2x4	DRY	No.2	SPF		
GZ - HA	2x4	DRY	No.2	SPF		
HA - HB	2x4	DRY	No.2	SPF		
HB - HC	2x4	DRY	No.2	SPF		
HC - HD	2x4	DRY	No.2	SPF		
HD - HE	2x4	DRY	No.2	SPF		
HE - HF	2x4	DRY	No.2	SPF		
HF - HG	2x4	DRY	No.2	SPF		
HG - HH	2x4	DRY	No.2	SPF		
HH - HI	2x4	DRY	No.2	SPF		
HI - HJ	2x4	DRY	No.2	SPF		
HJ - HK	2x4	DRY	No.2	SPF		
HK - HL	2x4	DRY	No.2	SPF		
HL - HM	2x4	DRY	No.2	SPF		
HM - HN	2x4	DRY	No.2	SPF		
HN - HO	2					

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	T52	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		Version 3.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 10:20:12 2020 Page 1			
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		7-0-0 10-5-0			



Scale = 1:22.5

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-1	MT20	4.0	4.0	2.00	1.25
C	TTWW-m	MT20	5.0	6.0	2.25	2.00
D	TTWW-m	MT20	4.0	4.0		
E	TMVW-1	MT20	4.0	4.0	2.00	1.25
F	BMV1+p	MT20	3.0	4.0		
G	BMVW-1	MT20	4.0	9.0		
H	BMVW-1	MT20	4.0	4.0		
I	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	UP/LIFT
I	699	0	699	0
F	574	0	574	0

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

UNFACTORED REACTIONS

1ST CASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
I	492	336	0	0	0	156	0
F	408	287	0	0	0	140	0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINTS I

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRACED 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	H-C	-116 14	0.03 (1)	
B-C	-423 0	-91.8	-91.8	0.16 (1)	8.25	C-G	-20 0	0.01 (1)	
C-D	-362 0	-91.8	-91.8	0.13 (1)	8.25	G-D	-126 8	0.03 (1)	
D-E	-409 0	-91.8	-91.8	0.14 (1)	8.25	B-H	0 422	0.09 (1)	
E-F	-669 0	0.0	0.0	0.08 (1)	7.81	G-E	0 419	0.09 (1)	
F-G	-546 0	0.0	0.0	0.07 (1)	7.81				
I-H	0 0	-18.5	-18.5	0.05 (4)	10.00				
H-G	0 375	-18.5	-18.5	0.09 (1)	10.00				
G-F	0 0	-18.5	-18.5	0.05 (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 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 NBCC 2010, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

55% OF 31.3 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.35")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.16/1.00; BC:1) . BC=0.09/1.00 (G-H:1) . W8=0.09/1.00 (B-H:1) . SSI=0.12/1.00 (G-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.

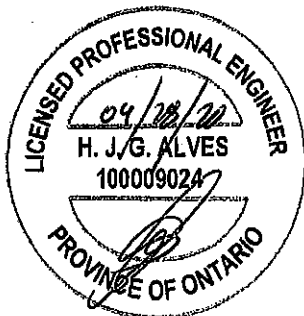
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

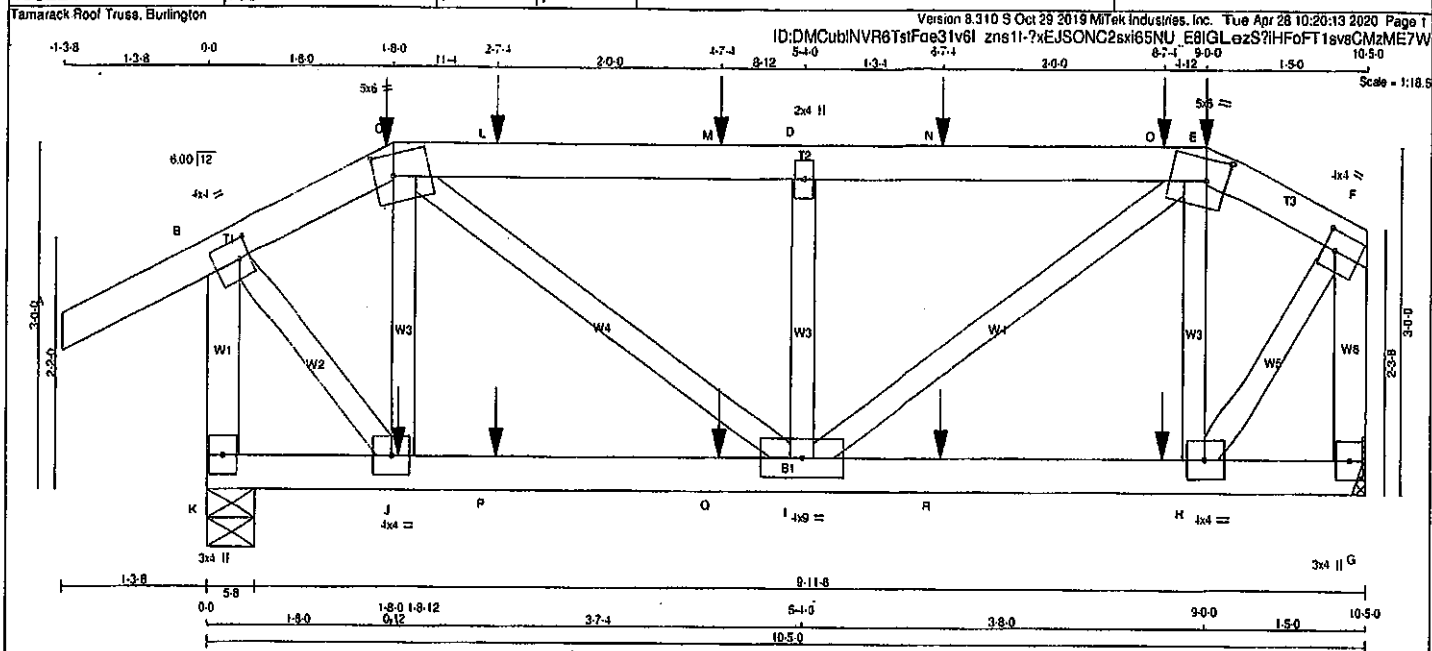
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.85 (B) (INPUT = 0.90)
JSI METAL = 0.21 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007673

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	T53	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	4.0	2.00	1.25
C	TTWW-m	MT20	5.0	6.0	2.25	2.00
D	TMVW-w	MT20	2.0	4.0		
E	TTWW-m	MT20	5.0	6.0	2.25	2.00
F	TMVW-t	MT20	4.0	4.0	2.00	1.25
G	BMV1-p	MT20	3.0	4.0		
H	BMVW-t	MT20	4.0	4.0		
I	BMVW-t	MT20	4.0	4.0		
J	BMVW-t	MT20	4.0	4.0		
K	BMV1-p	MT20	3.0	4.0		

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	UPLIFT	IN-SX
K	818	0	818	0
G	679	0	679	0

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
K	578	393	0	0	0	183	0
G	480	317	0	0	0	162	0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS1 (LC)	MAX. UNBRACED LENGTH (FT)	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
FR-TO	FROM	TO	FROM	TO	FR-TO	FROM	TO	FROM	TO
A-B	0	28	-91.8	-91.8	0.13 (1)	10.00	J-C	-307	0
B-C	-427	0	-91.8	-91.8	0.13 (1)	6.25	C-I	0	438
C-L	-702	0	-91.8	-91.8	0.26 (1)	8.25	I-D	-472	0
L-M	-702	0	-91.8	-91.8	0.26 (1)	8.25	E-E	0	469
M-D	-702	0	-91.8	-91.8	0.26 (1)	8.25	H-E	-373	0
D-N	-702	0	-91.8	-91.8	0.26 (1)	8.25	B-J	0	523
N-O	-702	0	-91.8	-91.8	0.26 (1)	8.25	H-F	0	558
O-E	-702	0	-91.8	-91.8	0.26 (1)	6.25			
E-F	-379	0	-91.8	-91.8	0.04 (1)	6.25			
K-B	-812	0	0.0	0.0	0.10 (1)	7.81			
G-F	-677	0	0.0	0.0	0.09 (1)	7.81			
K-J	0	0	-18.5	-18.5	0.04 (4)	10.00			
J-P	0	349	-18.5	-18.5	0.09 (1)	10.00			
P-Q	0	349	-18.5	-18.5	0.09 (1)	10.00			
Q-I	0	349	-18.5	-18.5	0.09 (1)	10.00			
I-R	0	324	-18.5	-18.5	0.09 (1)	10.00			
R-H	0	324	-18.5	-18.5	0.09 (1)	10.00			
H-G	0	0	-18.5	-18.5	0.04 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LOC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	1-8-0	-53	-53		BACK	VERT	TOTAL		C1
E	8-0-0	-21	-21		FRONT	VERT	TOTAL		C1
H	0-7-4	-4	-4		BACK	VERT	TOTAL		C1
J	1-8-12	-4	-4		BACK	VERT	TOTAL		C1
L	2-7-4	-28	-28		BACK	VERT	TOTAL		C1
M	4-7-4	-25	-25		BACK	VERT	TOTAL		C1
N	6-7-4	-25	-25		BACK	VERT	TOTAL		C1
O	6-7-4	-53	-53		BACK	VERT	TOTAL		C1
P	2-7-4	-4	-4		BACK	VERT	TOTAL		C1
Q	4-7-4	-4	-4		BACK	VERT	TOTAL		C1
R	6-7-4	-4	-4		BACK	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. OC

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

*** NON STANDARD BRIDGER ***
ADDT'L 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 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.35")
CALCULATED VERT. DEFL.(LL) = L/899 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.26(1.00)(D-E:1), BC=0.09(1.00)(I-J:1), WB=0.14(1.00)(F-H:1), SS=0.21(1.00)(C-D:1)

DOL LUMBER=1.00 NAIL=1.00 LB SEND=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
	1667	788
	1987	1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

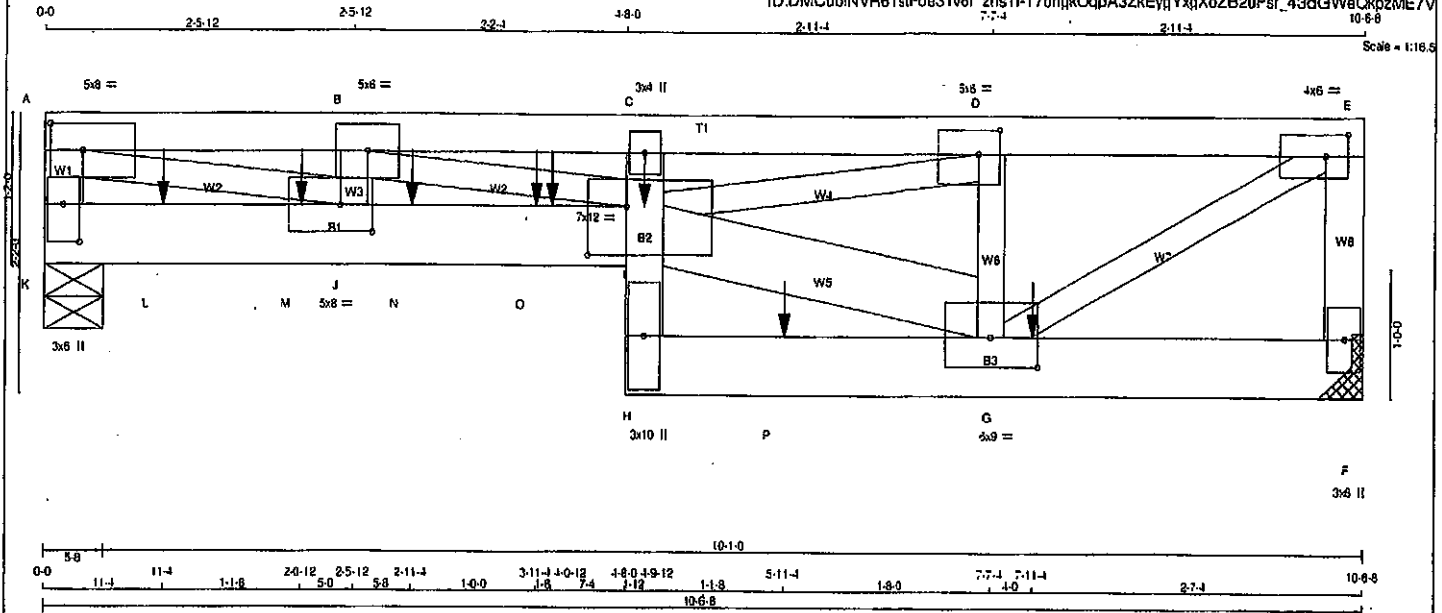
JSI GRIP = 0.77 (F) (INPUT = 0.90)
JSI METAL = 0.22 (F) (INPUT = 1.00)



Structural component only
DWG# T-2007674

JOB NAME 408224	TRUSS NAME T54S	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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10-6-8
Scale = 1:16.8



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
K - A	2x4	DRY	No.2
A - E	2x4	DRY	No.2
F - E	2x4	DRY	No.2
K - I	2x6	DRY	No.2
H - C	2x4	DRY	No.2
H - F	2x6	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
I - G	2x6	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		
K - A	12	TOP
A - E	12	TOP
E - F	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
K - I	12	SIDE(81.0)
H - F	12	SIDE(183.1)
C - H	5	SIDE(89.8)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	
2x6	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING. 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	MAXIMUM FACTORED	INPUT	REQD		
GROSS REACTION	GROSS REACTION	BRG	BRG		
JT VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
K	2804	0	2604	0	5-8
F	2255	0	2255	0	MECHANICAL

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

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
K	1841	1212	0	0	0	628	0
F	1592	1081	0	0	0	531	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.36 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LCI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LCI (LC)	
FR-TO				FR-TO			
K - A	-2274	0	0.0	I - G	0	2888	0.19 (1)
A - B	-6894	0	-91.8	I - D	0	5928	0.73 (1)
B - C	-10298	0	-91.8	G - D	-2146	0	0.17 (1)
C - D	-9247	0	-91.8	G - E	0	4043	0.50 (1)
D - E	-3416	0	-91.8	J - B	-1577	0	0.12 (1)
F - E	-2242	0	0.0	A - J	0	7027	0.87 (1)
				B - I	0	3806	0.47 (1)
K - L	0	0	-18.5				
L - M	0	0	-18.5				
M - J	0	0	-18.5				
J - N	0	6894	-18.5				
N - O	0	6894	-18.5				
O - I	0	6894	-18.5				
H - I	0	354	0.0				
I - C	0	128	0.0				
H - P	0	832	-18.5				
P - G	0	832	-18.5				
G - F	0	0	-18.5				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
G	7-11-4	-881	-881	---	BACK	VERT	TOTAL	C1
I	4-9-12	-577	-577	---	FRONT	VERT	TOTAL	C1
L	11-4	-72	-72	---	BACK	VERT	TOTAL	C1
M	2-0-12	-352	-352	---	FRONT	VERT	TOTAL	C1
N	2-11-4	-142	-142	---	BACK	VERT	TOTAL	C1
O	3-11-4	-883	-883	---	BACK	VERT	TOTAL	C1
O	4-0-12	-354	-354	---	FRONT	VERT	TOTAL	C1
P	5-11-4	-556	-556	---	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/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 CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.35")
CALCULATED VERT. DEFL.(LL) = L/862 (0.15")
ALLOWABLE DEFL.(TL) = L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = L/469 (0.27")

CSH: TC=0.66/1.00 (B-C:1), BC=0.79/1.00 (I-J:1), WB=0.87/1.00 (A-J:1), SS=0.45/1.00 (C-I: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
(PSF)	(PL)	(PL)
MAX	MIN	MAX
MT20	618	354
	1887	788
	1987	1656

PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (E) INPUT = 0.90
JSI METAL = 0.73 (D) INPUT = 1.00

CONTINUED ON PAGE 2



Structural component only
DWG# T-2007675 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	T54S	1	2	GREEN PARK HOMES	
TAMRACK ROOF TRUSS, BURLINGTON		TRAUSS DESC.			

TAMRACK ROOF TRUSS, BURLINGTON

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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMWW-1	MT20	5.0	8.0	2.50	3.00
B	TMWW-1	MT20	5.0	8.0		
C	TMW+p	MT20	3.0	4.0		
D	TMWW-1	MT20	5.0	6.0	2.25	2.00
E	TMWW-1	MT20	4.0	6.0	2.00	2.00
F	BMV1+p	MT20	3.0	6.0		
G	BMWW-1	MT20	6.0	9.0	2.75	4.50
H	BMV+p	MT20	3.0	10.0		
I	BVWWWW-1	MT20	7.0	12.0	4.50	3.75
J	BMWW-1	MT20	5.0	8.0	2.50	3.00
K	BMV1+p	MT20	3.0	6.0	3.50	1.50

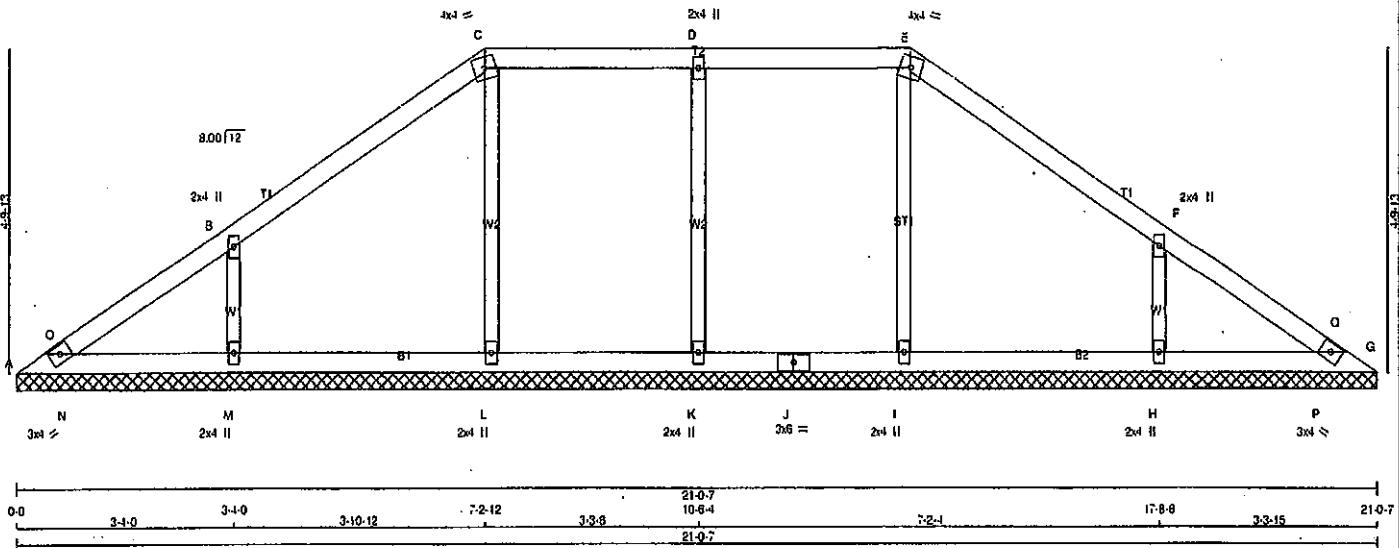


Structural component only
DWG# T-2007675

JOB NAME 408222	TRUSS NAME V1	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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0-0 3-4-0 3-10-12 7-2-12 3-3-8 10-6-4 3-3-8 13-9-12 3-10-12 17-8-8 3-3-15 21-0-7
Scale: 3/8"=1'



TOTAL WEIGHT = 63 lb

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

DESCR.
SPF
SPF
SPF
SPF
SPF

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
A	128	0	128	0	0
G	128	0	128	0	0
I	330	0	330	0	0
L	330	0	330	0	0
K	433	0	433	0	0
H	485	0	485	0	0
M	485	0	485	0	0

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

JT	1ST LOSE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
A	90	61 0	0 0	0 0	0 0	29 0	0 0	0 0
G	90	61 0	0 0	0 0	0 0	29 0	0 0	0 0
I	235	143 0	0 0	0 0	0 0	93 0	0 0	0 0
L	235	143 0	0 0	0 0	0 0	93 0	0 0	0 0
K	364	212 0	0 0	0 0	0 0	92 0	0 0	0 0
H	342	228 0	0 0	0 0	0 0	114 0	0 0	0 0
M	342	228 0	0 0	0 0	0 0	114 0	0 0	0 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) A, G, I, L, K, H, M

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)
FR-TO			
A-O	-23 2	-91.8 -91.8 0.04 (1)	6.25
O-B	0 33	-91.8 -91.8 0.21 (1)	10.00
B-C	-8 8	-91.8 -91.8 0.20 (1)	10.00
C-D	0 17	-91.8 -91.8 0.17 (1)	10.00
D-E	0 17	-91.8 -91.8 0.17 (1)	10.00
E-F	-8 8	-91.8 -91.8 0.20 (1)	10.00
F-G	0 33	-91.8 -91.8 0.21 (1)	10.00
G-Q	-23 2	-91.8 -91.8 0.04 (1)	6.25
A-N	-9 0	-18.5 -18.5 0.05 (1)	10.00
N-M	-7 7	-18.5 -18.5 0.06 (4)	10.00
M-L	-11 0	-18.5 -18.5 0.06 (4)	6.25
L-K	-17 0	-18.5 -18.5 0.05 (4)	6.25
K-J	-17 0	-18.5 -18.5 0.05 (4)	6.25
J-I	-17 0	-18.5 -18.5 0.05 (4)	6.25
I-H	-11 0	-18.5 -18.5 0.06 (4)	6.25
H-P	-7 7	-18.5 -18.5 0.06 (4)	10.00
P-G	-9 0	-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 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 NBCC 2010, OSC 2012, ABC 2019
- PART 9 OF OSC 2012 (2019 AMENDMENT)
- CSA 080-08, CSA 080-14
- TFC 2011, TFC 2014

155 % 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

CS: TC=0.21 1.00 (B-O:1), BC=0.06 1.00 (L-M:1), WB=0.13 1.00 (D-K:1), SS=0.15 1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PS)	(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 = 0.61 (C) INPUT = 0.90
JSI METAL = 0.20 (F) INPUT = 1.00

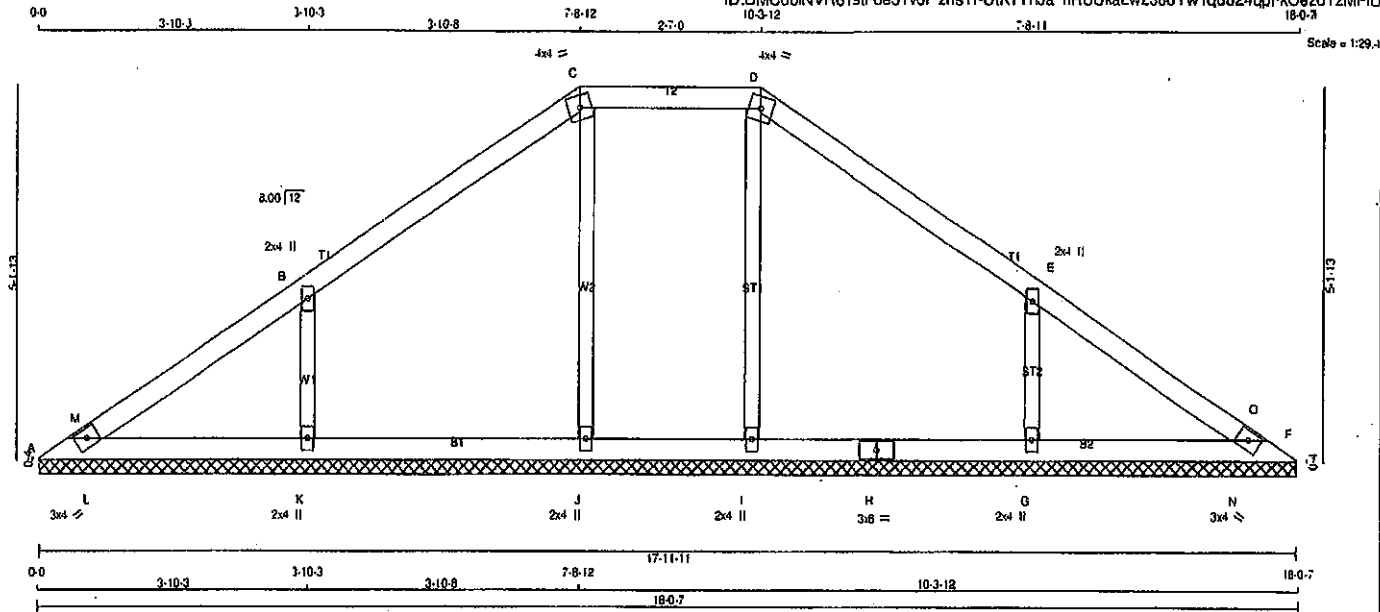


Structural component only
DWG# T-2007616

JOB NAME 408222	TRUSS NAME V2	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TsFos31v6I zns11-UlKTTnJa hRUUkaLwZ38oYw1qu824qpFkOzoTzMFIL



TOTAL WEIGHT = 54 lb

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	RECORD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
A	136	0	136	0	17-11-11 (11-17-12-11)	
F	135	0	135	0	17-11-11 (11-17-12-11)	
I	344	0	344	0	17-11-11 (11-17-12-11)	
G	513	0	513	0	17-11-11 (11-17-12-11)	
J	342	0	342	0	17-11-11 (11-17-12-11)	
K	513	0	513	0	17-11-11 (11-17-12-11)	

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX. MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM. LIVE	WIND			
A	96	85	0	0	0	30	0
F	95	85	0	0	0	30	0
I	244	155	0	0	0	89	0
G	362	240	0	0	0	122	0
J	242	154	0	0	0	88	0
K	362	240	0	0	0	122	0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINTS) A, F, I, G, J, K

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				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	FR-TO			
A-M	0 20	-91.8 -91.8	0.04 (1)	10.00	I-D	-292 0	0.11 (1)
M-B	0 71	-91.8 -91.8	0.22 (1)	10.00	G-E	-408 0	0.07 (1)
B-C	0 33	-91.8 -91.8	0.22 (1)	10.00	J-C	-291 0	0.11 (1)
C-D	0 52	-91.8 -91.8	0.11 (1)	10.00	K-B	-408 0	0.07 (1)
D-E	0 33	-91.8 -91.8	0.22 (1)	10.00	L-M	-71 4	0.00 (1)
E-O	0 71	-91.8 -91.8	0.22 (1)	10.00	N-O	-69 5	0.00 (1)
O-F	0 19	-91.8 -91.8	0.04 (1)	10.00			
A-L	-43 0	-18.5 -18.5	0.07 (1)	8.25			
L-K	-30 0	-18.5 -18.5	0.07 (1)	8.25			
K-J	-45 0	-18.5 -18.5	0.07 (4)	8.25			
J-I	-52 0	-18.5 -18.5	0.04 (4)	8.25			
I-H	-45 0	-18.5 -18.5	0.07 (4)	8.25			
H-G	-45 0	-18.5 -18.5	0.07 (4)	8.25			
G-N	-30 0	-18.5 -18.5	0.07 (1)	8.25			
N-F	-43 0	-18.5 -18.5	0.07 (1)	8.25			

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 2010, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

CSI: TC=0.22:1.00 (E-O:1), BC=0.07:1.00 (K-L:1), WB=0.11:1.00 (D:1), SSI=0.14:1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MAX	MIN	MAX	MIN
MT20	618	354	1667 768 1987 1858

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.61 (C) (INPUT = 0.90)
JSI METAL= 0.21 (E) (INPUT = 1.00)



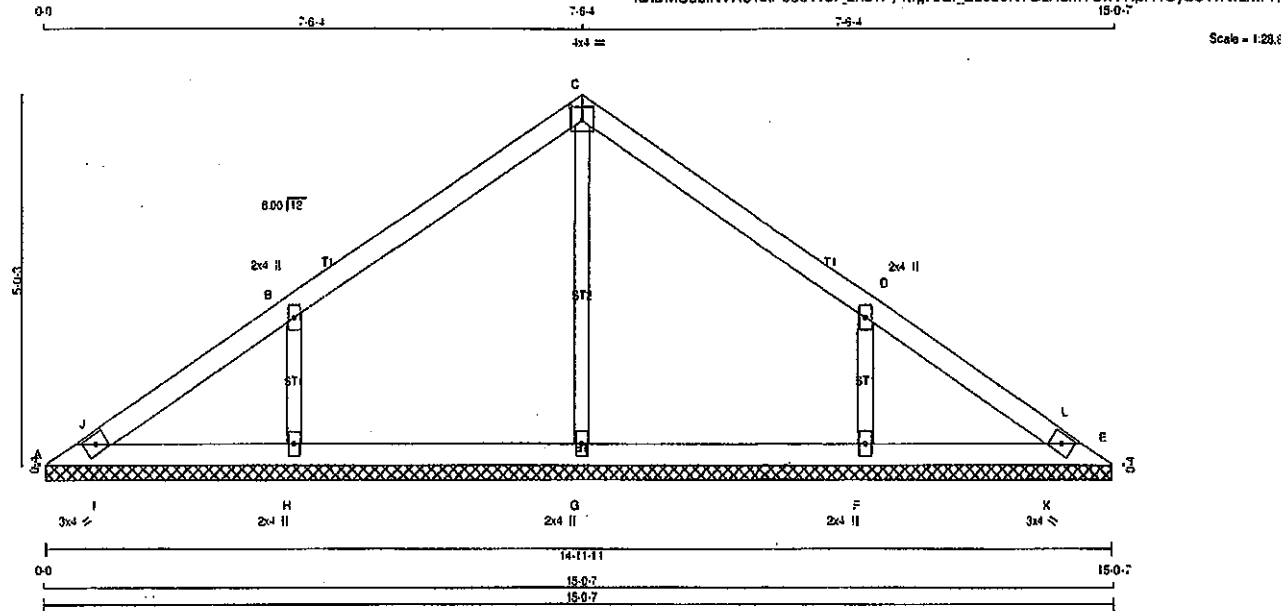
Structural component only
DWG# T-2007617

JOB NAME 408222	TRUSS NAME V3	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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TOTAL WEIGHT = 43 lb

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

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN
A	TBM1-h	MT20	3.0	4.0
B	TBM1-w	MT20	2.0	4.0
C	TTW-p	MT20	4.0	4.0
D	TBM1-w	MT20	2.0	4.0
E	TBM1-h	MT20	3.0	4.0
F, G, H	BMW1-w	MT20	2.0	4.0

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
A	134	0	134	0	0	14-11-11	14-11-11	14-11-11	14-11-11
E	134	0	134	0	0	14-11-11	14-11-11	14-11-11	14-11-11
G	381	0	381	0	0	14-11-11	14-11-11	14-11-11	14-11-11
H	501	0	501	0	0	14-11-11	14-11-11	14-11-11	14-11-11
F	501	0	501	0	0	14-11-11	14-11-11	14-11-11	14-11-11

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
A	95	85	0	0	0	0	30	0
E	95	85	0	0	0	0	30	0
G	272	182	0	0	0	0	110	0
H	353	237	0	0	0	0	116	0
F	353	237	0	0	0	0	116	0

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	CSF (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	CSF (LC)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-J	-20	4	-91.8	-91.8	0.04	(1)	6.25
J-B	0	38	-91.8	-91.8	0.22	(1)	10.00
B-C	-5	12	-91.8	-91.8	0.21	(1)	10.00
C-D	-5	12	-91.8	-91.8	0.21	(1)	10.00
D-L	0	38	-91.8	-91.8	0.22	(1)	10.00
L-E	-20	4	-91.8	-91.8	0.04	(1)	6.25
A-I	-13	0	-18.5	-18.5	0.06	(1)	6.25
I-H	-10	3	-18.5	-18.5	0.06	(4)	6.25
H-G	-13	0	-18.5	-18.5	0.06	(4)	6.25
G-F	-13	0	-18.5	-18.5	0.06	(4)	6.25
F-K	-10	3	-18.5	-18.5	0.06	(4)	6.25
K-E	-13	0	-18.5	-18.5	0.06	(1)	6.25

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019

- PART 9 OF OBC 2012 (2019 AMENDMENT)

- CSA 088-09, CSA 088-14

- TPIC 2011, TPIC 2014

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

CSI: TC=0.22/1.00 (B-J:1), BC=0.08/1.00 (G-H:4), WB=0.11/1.00 (C-G:1), SSI=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

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

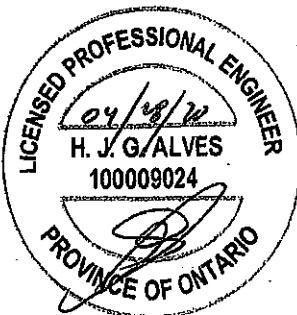
MT20 618 354 1867 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

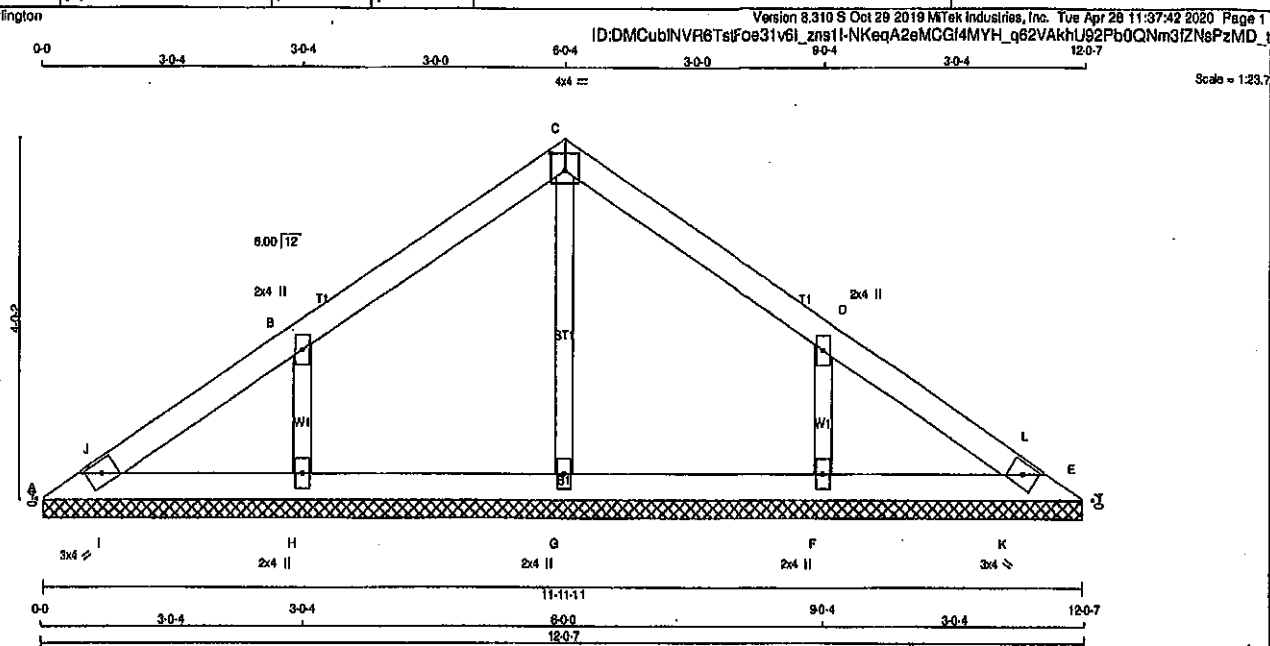
JSI GRIP = 0.28 (D) (INPUT = 0.90)

JSI METAL = 0.21 (D) (INPUT = 1.00)



Structural component only
DWG# T-2007618

JOB NAME 408222	TRUSS NAME V4	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TBM1-h	MT20	3.0	4.0	
B	TMW-w	MT20	2.0	4.0	
C	TTW-p	MT20	4.0	4.0	2.25 2.00
D	TMW-w	MT20	2.0	4.0	
E	TBM1-h	MT20	3.0	4.0	
F, G, 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		RECORD	
JT	VERT	HORZ	GROSS REACTION	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
A	117	0	117	0	0	11-11-11	11-11-11		
E	117	0	117	0	0	11-11-11	11-11-11		
G	280	0	280	0	0	11-11-11	11-11-11		
F	398	0	398	0	0	11-11-11	11-11-11		
H	398	0	398	0	0	11-11-11	11-11-11		

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
A	83	58/0	0/0	0/0	0/0	28/0	0/0
E	83	58/0	0/0	0/0	0/0	28/0	0/0
G	207	125/0	0/0	0/0	0/0	82/0	0/0
F	281	188/0	0/0	0/0	0/0	93/0	0/0
H	281	188/0	0/0	0/0	0/0	93/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO	FR-TO			
A-J	-81/5	-81.8	-81.8 0.03 (1)	G-C	-248/0	0.08 (1)	
J-B	0/38	-81.8	-81.8 0.13 (1)	F-D	-314/0	0.05 (1)	
B-C	0/12	-81.8	-81.8 0.13 (1)	H-B	-314/0	0.05 (1)	
C-D	0/12	-81.8	-81.8 0.13 (1)	I-J	-471/4	0.00 (1)	
D-L	0/38	-81.8	-81.8 0.13 (1)	K-L	-471/4	0.00 (1)	
L-E	-81/5	-81.8	-81.8 0.03 (1)				
A-I	-13/0	-18.5	-18.5 0.05 (1)				8.25
I-H	-10/0	-18.5	-18.5 0.05 (1)				10.00
H-G	-20/0	-18.5	-18.5 0.04 (4)				8.25
G-F	-20/0	-18.5	-18.5 0.04 (4)				8.25
F-K	-10/0	-18.5	-18.5 0.05 (1)				10.00
K-E	-13/0	-18.5	-18.5 0.05 (1)				8.25

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
OL = 8.0 PSF
BOT CH. LL = 0.0 PSF
OL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 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 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.13/1.00 (B-J:1), BC=0.05/1.00 (A-I:1), WB=0.08/1.00 (C-G:1), SSI=0.11/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

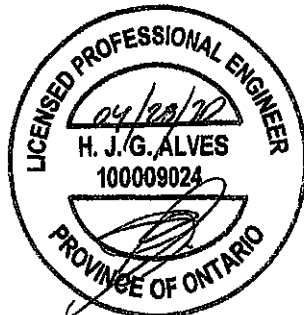
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLJ)
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.

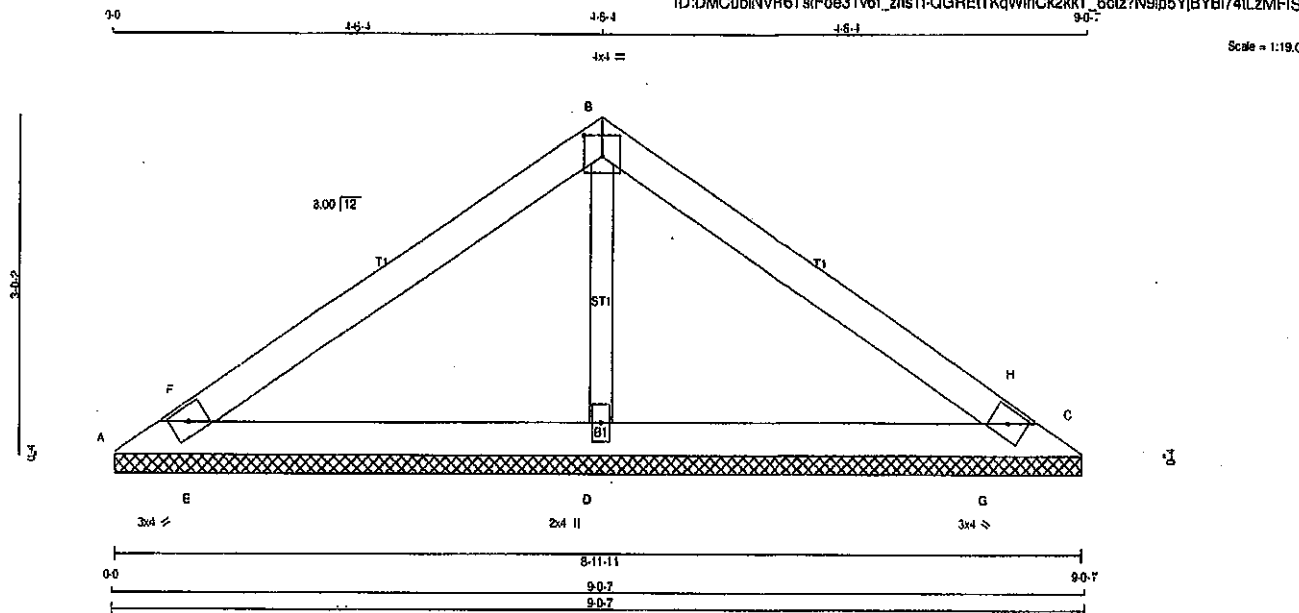
JSI GRIP= 0.22 (D) (INPUT = 0.99)
JSI METAL= 0.16 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007819

JOB NAME 408222	TRUSS NAME V5	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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TOTAL WEIGHT = 23 lb

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

DESCR.
SPF
SPF
SPF

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

REACTIONS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	UPLIFT
A	49	0	49	0
C	49	0	49	0
D	893	0	893	0

UNFACTORED REACTIONS

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED							
A	34	22.0	0.0	0.0	0.0	0.0	12.0	0.0
C	34	22.0	0.0	0.0	0.0	0.0	12.0	0.0
D	631	415.0	0.0	0.0	0.0	0.0	216.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 (LC)	
FR-TO		FROM TO		FR-TO			
A-F	0 347	-91.8 -91.8	0.12 (1)	D-B	-898 0	0.12 (1)	
F-B	0 341	-91.8 -91.8	0.23 (1)	E-F	-225 0	0.00 (1)	
B-H	0 341	-91.8 -91.8	0.23 (1)	G-H	-225 0	0.00 (1)	
H-C	0 347	-91.8 -91.8	0.12 (1)				
A-E	-321 0	-18.5 -18.5	0.16 (1)				8.25
E-D	-290 0	-18.5 -18.5	0.17 (1)				8.25
D-G	-290 0	-18.5 -18.5	0.17 (1)				8.25
G-C	-321 0	-18.5 -18.5	0.16 (1)				8.25

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. CG

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 (2018 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.23/1.00 (B-F:1), SC=0.17/1.00 (D-E:1), WB=0.12/1.00 (B-D:1), SSI=0.12/1.00 (A-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 1656

PLATE PLACEMENT TOL. = 0.260 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.59 (B), (INPUT = 0.90)
JSI METAL= 0.20 (B), (INPUT = 1.00)

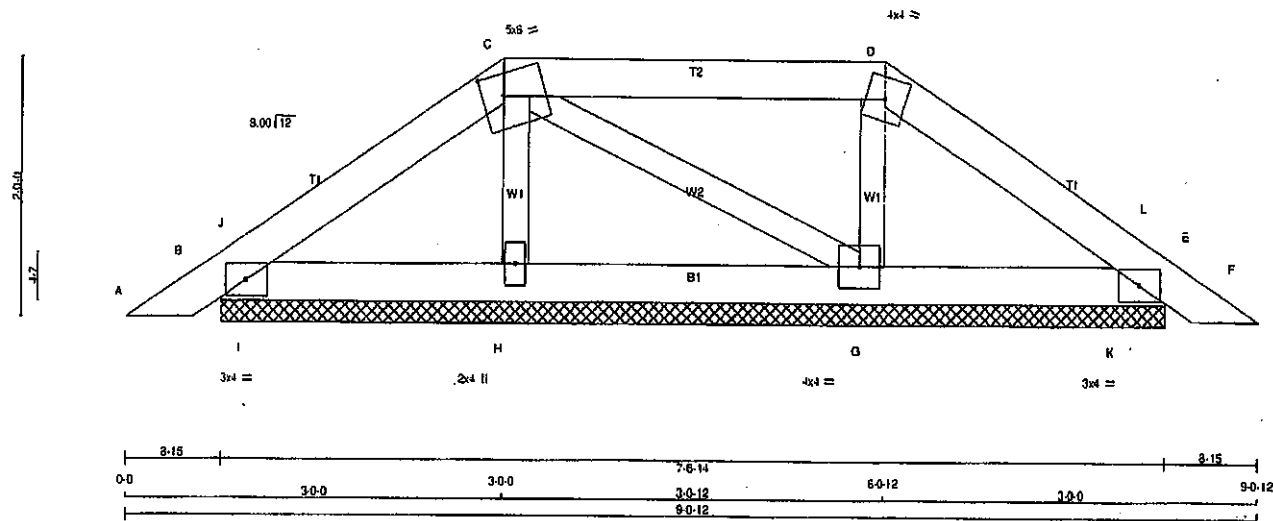


Structural component only
DWG# T-2007620

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408222	PB1	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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 ID:DMCubINVR6TstFoe31v6l zns11-MN1ZKL9Q2heKQk4nKK5mpuqJlJFXyxLks?nnzMFh
 6-0-12 9-0-12 3-0-0

Scale = 1:16.4



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

PLATES (tablets in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMB1-I	MT20	3.0	4.0
C	TTWW-m	MT20	5.0	6.0 2.00 2.00
D	TTWW-m	MT20	4.0	4.0
E	TMB1-I	MT20	3.0	4.0
G	BMWW1-I	MT20	4.0	4.0
H	BMWW1-w	MT20	2.0	4.0

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REORD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	HORZ	BRG	IN-SX	BRG	IN-SX
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

1ST LCASE		MAX. MIN. COMPONENT REACTIONS		FACTORED		MAX. MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	154	113	0	0	0	41	0
E	146	106	0	0	0	39	0
H	176	109	0	0	0	67	0
G	198	127	0	0	0	71	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		W E B S		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	MAX. CSI (LC)
FR-TO		FROM TO		FR-TO			
A-B	0 15	-91.8 -91.8 0.03 (1)	10.00	H-C	-176 0	0.03 (1)	
B-J	-63 0	-91.8 -91.8 0.01 (1)	6.25	C-G	-21 0	0.00 (1)	
J-C	-75 0	-91.8 -91.8 0.05 (1)	6.25	G-D	-190 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 0.06 (1)	10.00				
I-H	0 60	-18.5 -18.5 0.06 (1)	10.00				
H-G	0 48	-18.5 -18.5 0.03 (1)	10.00				
G-K	0 43	-18.5 -18.5 0.06 (1)	10.00				
K-E	0 43	-18.5 -18.5 0.06 (1)	10.00				

TOTAL WEIGHT = 2 X 25 = 50 lb

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 25.8 PSF
 DL = 8.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.4 PSF
 TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

155 % OF 31.3 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 25.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.15/1.00 (C-D:1), BC=0.06/1.00 (B-I:1), WB=0.03/1.00 (D-G:1), SS=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) (PL) (PL)
 MAX MIN MAX MIN MAX MIN
 MT20 618 354 1667 789 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

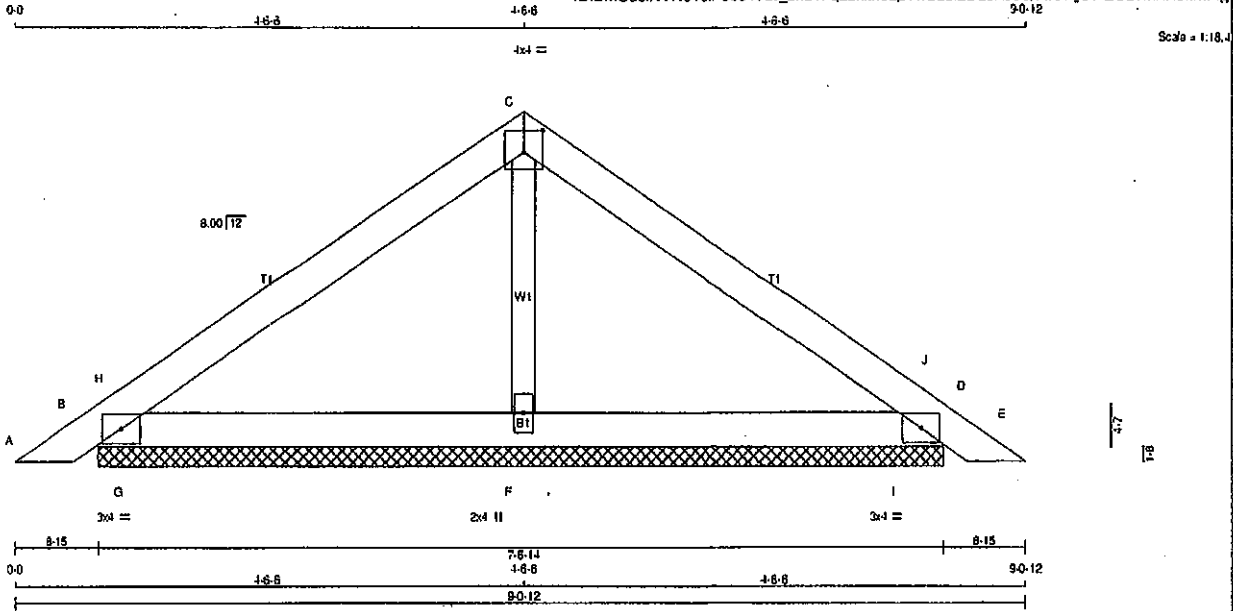


Structural component only
 DWG# T-2007600

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408222	PB2	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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TOTAL WEIGHT = 2 X 23 = 46 lb

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-I	MT20	3.0	4.0	
C	TTW-p	MT20	4.0	4.0	2.25 2.00
D	TMB1-I	MT20	3.0	4.0	
F	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	GROSS REACTION	HORZ	GROSS REACTION	HORZ	BRG	IN-SX	BRG	IN-SX
B	318	0	318	0	0	7-8-14	7-8-14		
D	318	0	318	0	0	7-8-14	7-8-14		
F	320	0	320	0	0	7-8-14	7-8-14		

UNFACTORED REACTIONS

JT	1ST LOOSE	MAX. MIN. COMPONENT REACTIONS							
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL		
B	223	159	0	0	0	0	0	0	0
D	223	159	0	0	0	0	0	0	0
F	229	137	0	0	0	0	0	0	0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, D, 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		FACTORED		WEBS		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. (LC)	MEMB.	MAX. FORCE (LBS)	MAX. (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 15	-91.8	-91.8 0.03 (1)	10.00	F-C	-148 0	0.03 (1)
B-H	-31 0	-91.8	-91.8 0.07 (1)	8.25	G-H	-349 0	0.00 (1)
H-C	-135 0	-91.8	-91.8 0.16 (1)	8.25	I-J	-349 0	0.00 (1)
C-J	-135 0	-91.8	-91.8 0.16 (1)	8.25			
J-D	-31 0	-91.8	-91.8 0.07 (1)	8.25			
D-E	0 15	-91.8	-91.8 0.03 (1)	10.00			
B-G	0 105	-18.5	-18.5 0.15 (1)	10.00			
G-F	0 105	-18.5	-18.5 0.15 (1)	10.00			
F-I	0 105	-18.5	-18.5 0.15 (1)	10.00			
I-D	0 105	-18.5	-18.5 0.15 (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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 2010, NBCC 2015
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.16; 1.00 (C-J); BC=0.16; 1.00 (F-I); WB=0.03; 1.00 (C-F); SS=0.28; 1.00 (D-I)

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.

ISI GRIP= 0.28 (D) (INPUT = 0.90)
ISI METAL= 0.07 (D) (INPUT = 1.00)

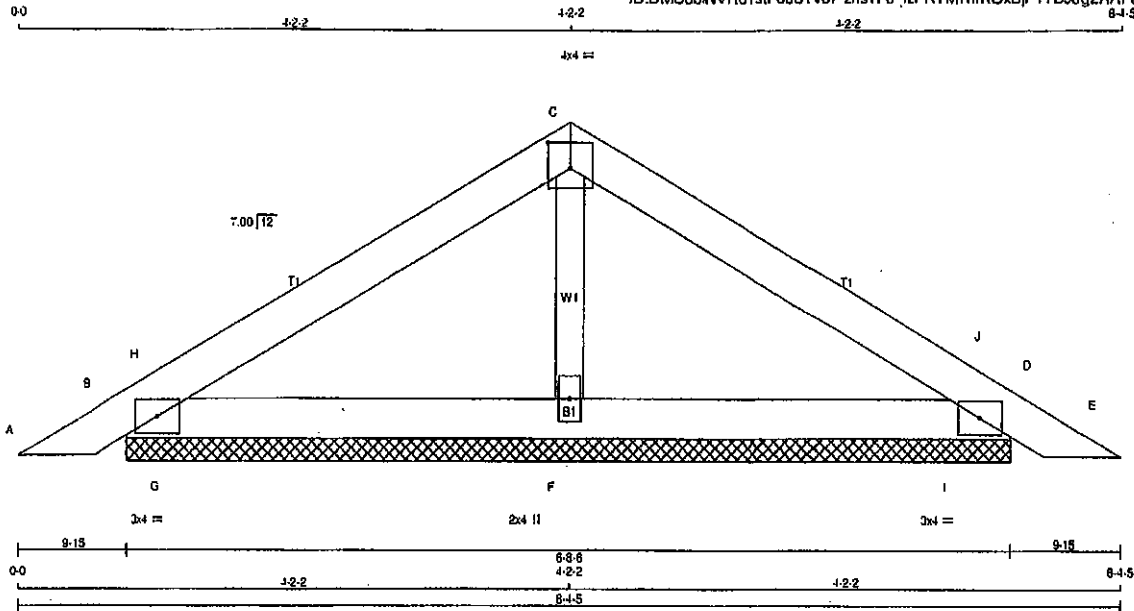


Structural component only
DWG# T-2007601

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408223	PB20	4	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:DMCubNVR6TstFos31v6l zns11-6 izPKYM7hrKOxBjFY7B9Jg2AAAFery9gNMkIPVzMEMr



TOTAL WEIGHT = 4 X 20 = 80 lb

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

PLATES (table in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TTW-p	MT20	4.0	4.0	2.25	2.00
D	TMB1-I	MT20	3.0	4.0		
F	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		RECORD	
JT	VERT	HORZ	GROSS REACTION	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	BRG
B	281	0	281	0	0	0	6-8-6	6-8-6	6-8-6
D	281	0	281	0	0	0	6-8-6	6-8-6	6-8-6
F	314	0	314	0	0	0	6-8-6	6-8-6	6-8-6

UNFACTORED REACTIONS

1ST LCASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	197	141 0	0 0	0 0	0 0	55 0	0 0
D	197	141 0	0 0	0 0	0 0	55 0	0 0
F	224	137 0	0 0	0 0	0 0	87 0	0 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1 (PLF)	MAX CS1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CS1 (LC)	
FR-TO		FROM	TO			FR-TO			
A-B	0 16	-91.8	-91.8	0.04 (1)	10.00	F-C	-159 0	0.02 (1)	
B-H	-44 0	-91.8	-91.8	0.05 (1)	6.25	G-H	-250 0	0.00 (1)	
H-C	-99 0	-91.8	-91.8	0.12 (1)	6.25	I-J	-250 0	0.00 (1)	
C-J	-99 0	-91.8	-91.8	0.12 (1)	6.25				
J-D	-44 0	-91.8	-91.8	0.05 (1)	6.25				
D-E	0 16	-91.8	-91.8	0.04 (1)	10.00				
B-G	0 81	-18.5	-18.5	0.12 (1)	10.00				
G-F	0 81	-18.5	-18.5	0.12 (1)	10.00				
F-I	0 81	-18.5	-18.5	0.12 (1)	10.00				
I-D	0 81	-18.5	-18.5	0.12 (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. OC

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BOBC 2016, 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

CS1: TC=0.12/1.00 (C-H:1), BC=0.12/1.00 (B-G:1), WB=0.02/1.00 (G-F:1), SS=0.18/1.00 (D-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 818 354 1667 783 1997 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.24 (D) (INPUT = 0.90)
JSI METAL = 0.08 (B) (INPUT = 1.00)



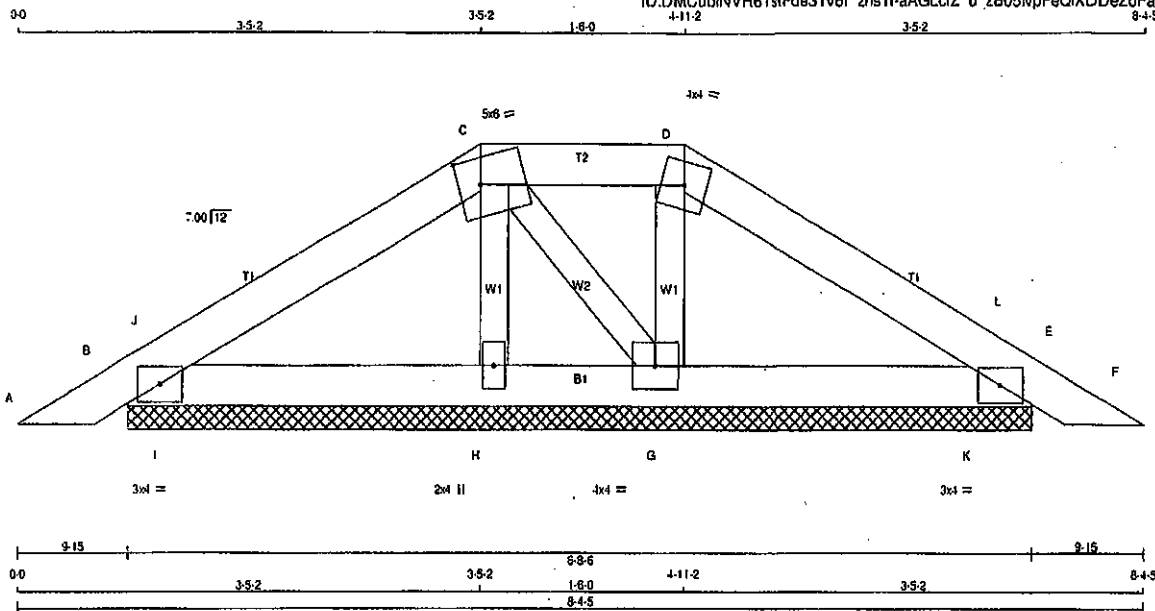
Structural component only
DWG# T-2007627

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408223	PB21	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TstFos31v6I zns11-aAGLcZ u z805vpFeQIXDDeZbFaPRpb0UDxxzMEMm



Scale = 1:15.2

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

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
B	241	0	241	0
E	228	0	228	0
H	170	0	170	0
G	238	0	238	0

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED						
B	169	121	0	0	0	48	0
E	160	114	0	0	0	46	0
H	122	74	0	0	0	48	0
G	168	111	0	0	0	57	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	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 MAX. CSI (LC)	MAX. UNBRACED LENGTH (FT)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED MAX. CSI (LC)
FR-TO					FR-TO			
A-B	0	16	-91.8	-91.8 0.04 (1)	10.00	H-C	-107	0
B-J	-59	0	-91.8	-91.8 0.01 (1)	6.25	C-G	-36	0
J-C	-71	0	-91.8	-91.8 0.07 (1)	6.25	G-D	-147	0
C-D	-28	0	-91.8	-91.8 0.04 (1)	6.25	I-J	-139	0
D-L	-46	0	-91.8	-91.8 0.07 (1)	6.25	K-L	-141	0
L-E	-33	0	-91.8	-91.8 0.01 (1)	6.25			
E-F	0	16	-91.8	-91.8 0.04 (1)	10.00			
B-I	0	59	-18.5	-18.5 0.07 (1)	10.00			
I-H	0	59	-18.5	-18.5 0.07 (1)	10.00			
H-G	0	52	-18.5	-18.5 0.04 (1)	10.00			
G-K	0	38	-18.5	-18.5 0.07 (1)	10.00			
K-E	0	38	-18.5	-18.5 0.07 (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. 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 8, 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

155 % 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=0.07 (D-L:1), BC=0.07 (I-D:1), B=1.11, WB=0.02 (I-D:1), SS=0.11 (E-K:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

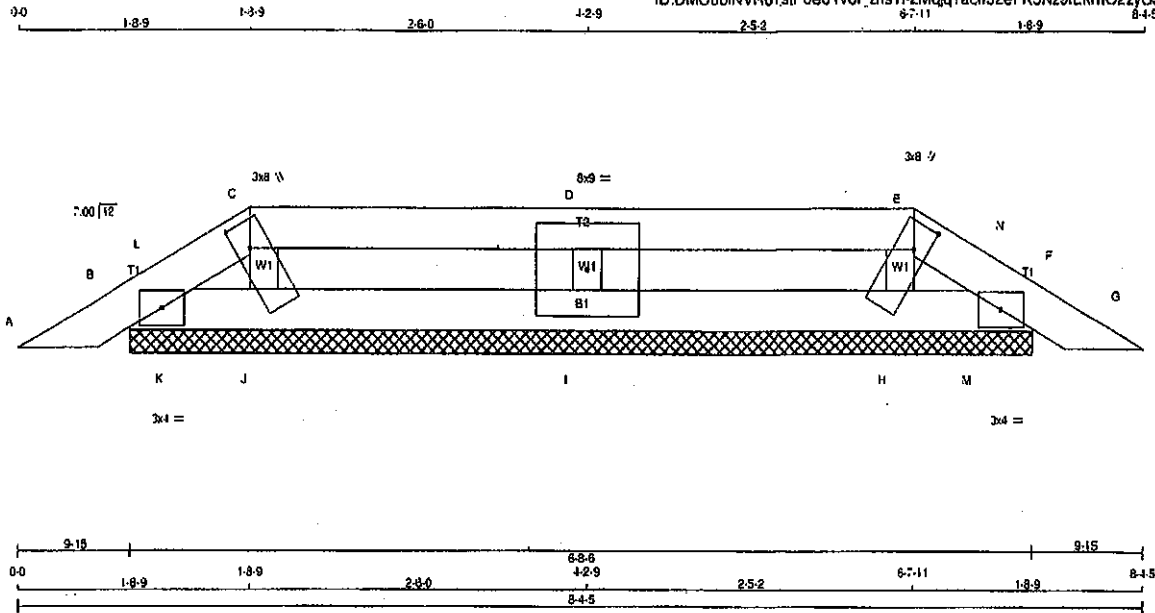
JSI GRIP = 0.19 (B) (INPUT = 0.90)
JSI METAL = 0.05 (D) (INPUT = 1.00)



Structural component only
DWG# T-2007628

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408223	P822	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:15.2

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

PLATES (tables in inches)	W	LEN	Y	X
JT TYPE	PLATES			
B	TMB1-I	3.0	4.0	
C	D, E, H, I, J			
C	TTBW1+h	3.0	8.0	2.25 1.25
D	TMBMW1-I	8.0	9.0	
E	TTBW1+h	3.0	8.0	2.25 1.25
F	TMB1-I	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
B	151	0	151	0
F	152	0	152	0
J	125	0	125	0
H	120	0	120	0
I	330	0	330	0

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED
B	105
F	105
J	90
H	86
I	232

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	MAX. FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE	VERT. LOAD	LC1	MEMB.	FORCE
	(LBS)	(PLF)	CSI (LC)		(LBS)
FR-TO		FROM TO		FR-TO	
A-B	0 18	-91.8 -91.8 0.04 (1)	10.00	J-C	-95 0
B-L	-53 0	-91.8 -91.8 0.04 (1)	6.25	H-E	-92 0
L-C	-22 0	-91.8 -91.8 0.01 (1)	6.25	I-D	-282 0
C-D	0 3	-91.8 -91.8 0.09 (1)	10.00	K-L	-1 12
D-E	0 3	-91.8 -91.8 0.09 (1)	10.00	M-N	0 13
E-N	-21 0	-91.8 -91.8 0.01 (1)	6.25		
N-F	-52 0	-91.8 -91.8 0.04 (1)	6.25		
F-G	0 18	-91.8 -91.8 0.04 (1)	10.00		
B-K	0 14	-18.5 -18.5 0.01 (1)	10.00		
K-J	0 14	-18.5 -18.5 0.02 (4)	10.00		
J-I	-3 0	-18.5 -18.5 0.02 (4)	10.00		
I-H	-3 0	-18.5 -18.5 0.02 (4)	10.00		
H-M	0 14	-18.5 -18.5 0.01 (1)	10.00		
M-F	0 14	-18.5 -18.5 0.01 (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 (N.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 CBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

CSI: TC=0.09:1.00 (D-E:1), BC=0.02:1.00 (I-J:4), WS=0.04:1.00 (D:1:1), SS=0.11:1.00 (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.

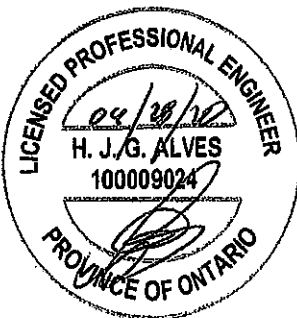
NAIL VALUES

PLATE	GRIP (DRY)	SHEAR	SECTION
(PS)	(PL)	(PL)	(PL)
MAX	MIN	MAX	MIN
MT20	618	354	1667 1656

PLATE PLACEMENT TOL. = 0.250 inches

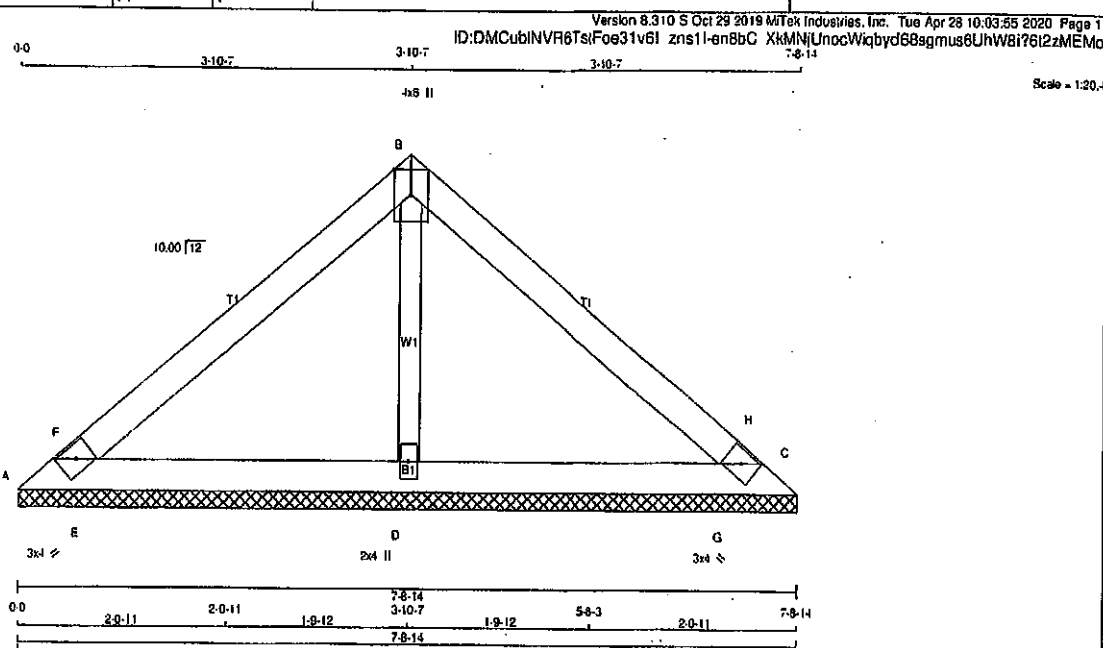
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.13 (C) (INPUT = 0.90)
JSI METAL = 0.04 (C) (INPUT = 1.00)



Structural component only
DWG# T-2007629

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408223	P20	17	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	



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

PLATES (table in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TBM1-h	MT20	3.0	4.0	
B	TTW+p	MT20	4.0	6.0	Edge
C	TBM1-h	MT20	3.0	4.0	
D	BMW1-w	MT20	2.0	4.0	

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
A	80	0	60	0	7-8-14	7-8-14
C	60	0	60	0	7-8-14	7-8-14
D	733	0	733	0	7-8-14	7-8-14

UNFACTORED REACTIONS

JT	COMBINED	MAX. MIN. COMPONENT REACTIONS		PERM LIVE	WIND	DEAD	SOIL
		SNOW	LIVE				
A	43	28.0	0.0	0.0	0.0	14.0	0.0
C	42	28.0	0.0	0.0	0.0	14.0	0.0
D	518	339.0	0.0	0.0	0.0	179.0	0.0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINTS A, C, D

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-F	0 227	-91.8 -91.8 0.09 (1)	10.00	D-B	-558 0	0.10 (1)	
F-B	0 219	-91.8 -91.8 0.17 (1)	10.00	E-F	-199 0	0.00 (1)	
B-H	0 219	-91.8 -91.8 0.17 (1)	10.00	G-H	-199 0	0.00 (1)	
H-C	0 228	-91.8 -91.8 0.09 (1)	10.00				
A-E	-207 0	-18.5 -18.5 0.13 (1)	6.25				
E-D	-174 0	-18.5 -18.5 0.13 (1)	6.25				
D-G	-174 0	-18.5 -18.5 0.13 (1)	6.25				
G-C	-207 0	-18.5 -18.5 0.13 (1)	6.25				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.17 (B-F:1), BC=0.13 (1.00 (D-E:1), WB=0.10 (1.00 (B-D:1), SS=0.11 (1.00 (C-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION	(PSI)	(PLI)	(PLI)
MAX MIN MAX MIN MAX MIN			
MT20	618	354	1867 788 1967 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.29 (D) (INPUT = 0.90)
JSI METAL = 0.12 (D) (INPUT = 1.00)



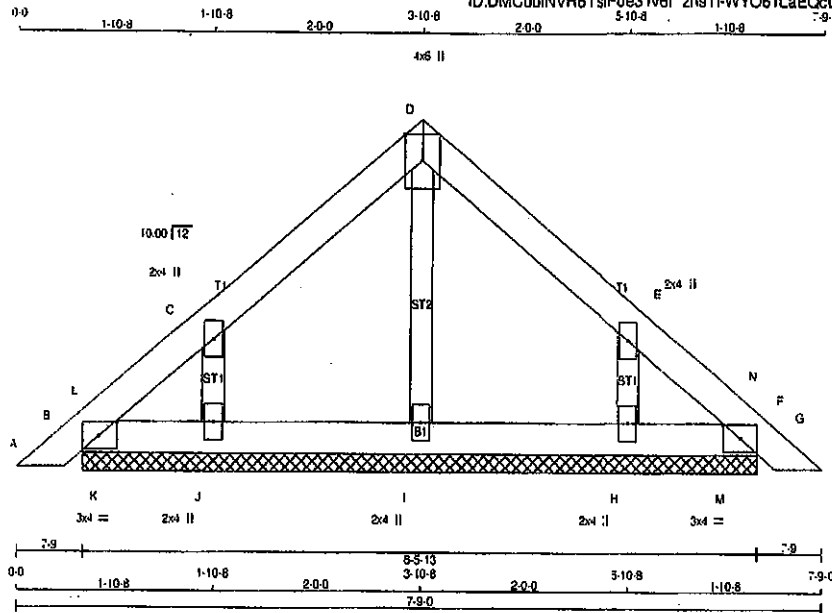
Structural component only
DWG# T-2007626

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408223	PG20	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Tamarack Roof Truss, Burlington

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Scale = 1/16"

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
B - F	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	TMB1-I	MT20	3.0	4.0	1.50 2.00
C	TMW-w	MT20	2.0	4.0	
D	TTW-w	MT20	4.0	6.0	Edge
E	TMW-w	MT20	2.0	4.0	
F	TMB1-I	MT20	3.0	4.0	1.50 2.00
H, I, J	BMW1-w	MT20	2.0	4.0	

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

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO			
A-B	0 14	-91.8 -91.8 0.02 (1)	10.00	I-D	-111 0	0.02 (1)	
B-L	-71 0	-91.8 -91.8 0.00 (1)	8.25	J-C	-185 0	0.03 (1)	
L-C	-30 0	-91.8 -91.8 0.05 (1)	8.25	H-E	-185 0	0.03 (1)	
C-D	-47 0	-91.8 -91.8 0.05 (1)	6.25	K-L	0 9	0.00 (1)	
D-E	-47 0	-91.8 -91.8 0.05 (1)	6.25	M-N	0 9	0.00 (1)	
E-N	-30 0	-91.8 -91.8 0.05 (1)	6.25				
N-F	-71 0	-91.8 -91.8 0.00 (1)	6.25				
F-G	0 14	-91.8 -91.8 0.02 (1)	10.00				
B-K	0 44	-18.5 -18.5 0.01 (1)	10.00				
K-J	0 44	-18.5 -18.5 0.01 (4)	10.00				
J-I	0 27	-18.5 -18.5 0.02 (4)	10.00				
I-H	0 27	-18.5 -18.5 0.02 (4)	10.00				
H-M	0 44	-18.5 -18.5 0.01 (4)	10.00				
M-F	0 44	-18.5 -18.5 0.01 (1)	10.00				

TOTAL WEIGHT = 2 X 22 = 45 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2018
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, 7PIC 2014

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

CSI: TC=0.05/1.00 (C-D:1), BC=0.02/1.00 (H-I:4), WB=0.03/1.00 (C-J:1), SSI=0.07/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PS)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354 1687 788 1987 1056	

PLATE PLACEMENT TOL. = 0.250 inches

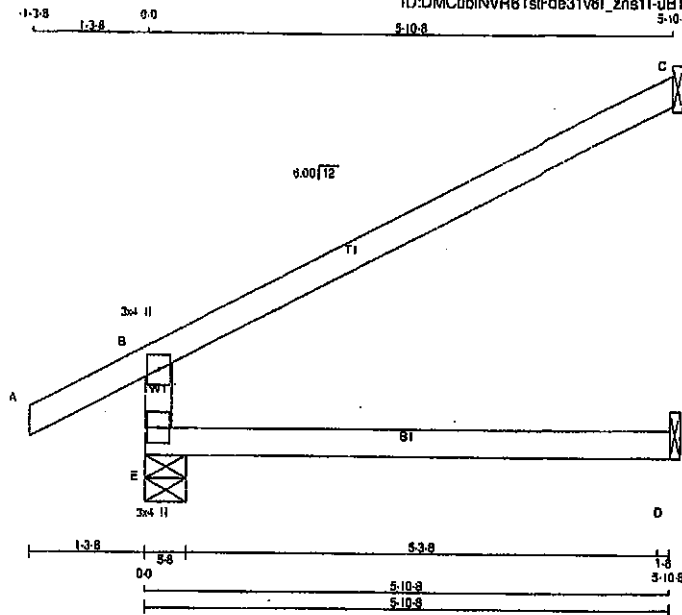
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.14 (E) INPUT = 0.90
JSI METAL = 0.10 (C) INPUT = 1.00



Structural component only
DWG# T-2007630

JOB NAME 408222	TRUSS NAME J1	QUANTITY 21	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.310 \$ Oct 29 2019 MITek Industries, Inc. Tue Apr 28 09:00:01 2020 Page 1 ID:DMCubINVR6Tsf0e31v8I_zns11-uBTBW78oHNgUpvV5dpsEblZQFMuoV7BWCFEIH2MFI		



TOTAL WEIGHT = 21 X 17 = 353 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

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

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	389	257	0	0	0	111	0
C	139	113	0	0	0	26	0
D	36	0	0	0	0	36	0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CS (LC)	MEMB.	FORCE (LBS)
FR-TO		FROM TO		FR-TO	
E-B	-661	0.0	0.0 0.13 (4)	7.81	
A-B	0	28	-91.8 -91.8 0.12 (1)	10.00	
B-C	-30	0	-91.8 -91.8 0.54 (1)	6.25	
E-D	0	0	-18.5 -18.5 0.13 (4)	10.00	

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL. (LL) = L/360 (0.20")
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 (A-B:0)) ; SSI=0.24 (1.00 (B-C:1))

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.19 (E) ; INPUT = 0.90 ; JSI METAL = 0.13 (B) ; INPUT = 1.00 ;



Structural component only
DWG# T-2007598



TOTAL WEIGHT = 4 X 31 = 125 lb

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER						
<u>BEARINGS</u>						
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORIZ	DOWN	HORIZ	IN-SX	IN-SX
H	332	0	332	0	5-8	5-8
E	208	0	208	0	MECHANICAL	

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT E. MINIMUM BEARING LENGTH AT JOINT E = 1.8.

DRY: SEASONED LUMBER.

UNFACTORED REACTIONS		MAX. MIN. COMPONENT REACTIONS					
1ST LCASE	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
H	232	168 0	0 0	0 0	0 0	88 0	0 0
F	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: 151

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LCI (CS/LCI)	MAX. UMBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LCI (CS/LCI)		
FR-TO		FROM TO			FR-TO				
H-B	-311 0	0.0	0.0	0.03 (1)	7.81	B-G	0 97		
A-B	0 35	-91.8	-91.8	0.14 (5)	10.00	E-D	-188 0		
B-C	96 0	-91.8	-91.8	0.05 (1)	8.25	G-E	-7 0		
C-D	-105 0	-91.8	-91.8	0.05 (1)	8.25	G-D	0 204		
H-G	0 0	-18.5	-18.5	0.03 (1)	10.00				
F-G	0 15	0.0	0.0	0.01 (1)	10.00				
G-C	-202 0	0.0	0.0	0.01 (1)	7.81				
F-E	-0 4	-18.5	-18.5	0.01 (1)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

CSI: TC=0.14/1.00 (A-B:5) , SC=0.03/1.00 (G-H:4)
WB=0.08/1.00 (D-E:1) , SSI=0.09/1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

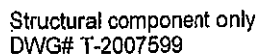
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT

NAIL VALUES					
PLATE	GRIP(DRY)		SHEAR		SECTION
	(PSI)		(PLI)		(PLI)
	MAX	MIN	MAX	MIN	MAX MIN
MT20	618	354	1887	786	1987 165

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg

JSI GRIP = 0.22 (B) INPUT = 0.90
JSI METAL = 0.07 (C) INPUT = 1.00

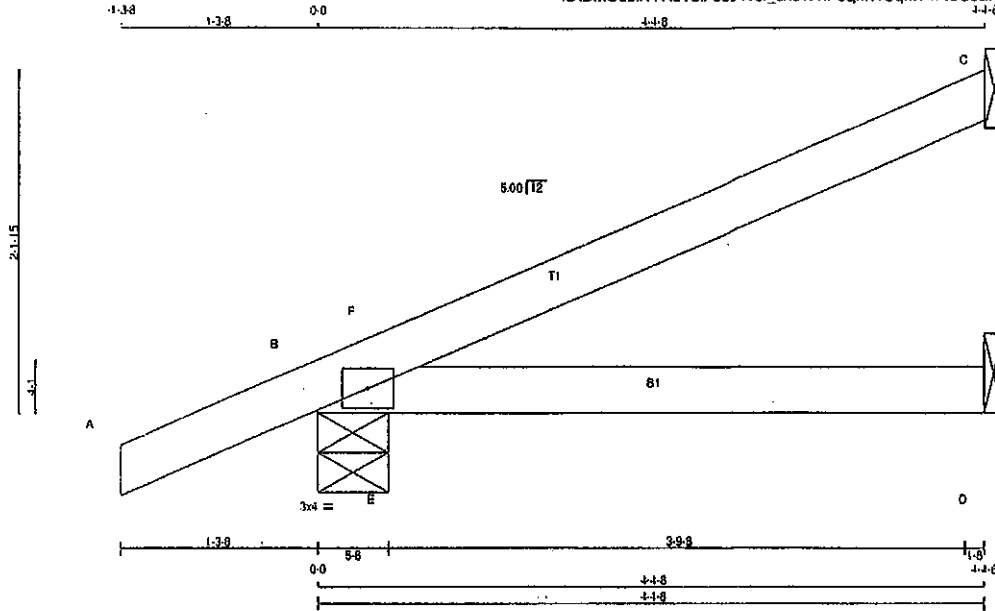


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DWG NO.
408223	J21	4	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TstFoe31v6l_zns11-hP0qnlWUqmTmXUS8aPZUYh3VGyCuebnDgOW?bAzMEMQ



TOTAL WEIGHT = 4 X 12 = 48 lb

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

PLATES (Labels in inches)
JT TYPE PLATES W LEN Y X
B TMB1-1 MT20 3.0 4.0

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

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
JT								
C	175	0	175	0	0	1-8	1-8	
B	365	0	365	0	0	5-8	5-8	
D	87	0	87	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

JT	COMBINED	MAX. MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
C	121	84	0	0	0	27	0
B	256	181	0	0	0	75	0
D	50	18	0	0	0	32	0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS		MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO					FR-TO				
A-B	0 23	-91.8	-91.8	0.12 (1)	E-F	-235 7	0.00 (1)		
B-F	-17 13	-91.8	-91.8	0.04 (4)					
F-C	-1 2	-91.8	-91.8	0.23 (1)					
B-E	0 0	-18.5	-18.5	0.16 (1)					
E-D	0 0	-18.5	-18.5	0.16 (1)					

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 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=0.23/1.00 (C-F:1), BC=0.16/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SS=0.19/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 768 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.26 (B) (INPUT = 0.90)
JSI METAL = 0.07 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007624

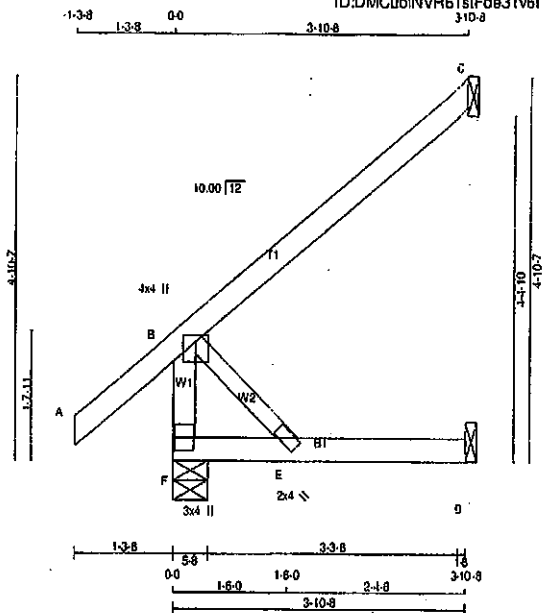
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408223	J22	3	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TstFoe31v6l zns11-AbaD eX6b3bd9e1K874j4ubgIMZPN21Nv2FYKczMEMp

Scale = 1:27.0



LUMBER				DESCR.	
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	SPF	SPF
F - B	2x4	ORY	No.2	SPF	SPF
A - C	2x4	ORY	No.2	SPF	SPF
F - D	2x4	ORY	No.2	SPF	SPF
ALL WEBS 2x3				ORY	No.2
ORY: 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
E	BMW+w	MT20	2.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	BRG	BRG
F	341	0	341	0	0	5-8	5-8		
C	178	0	178	0	0	1-8	1-8		
D	36	0	40	0	0	1-8	1-8		

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

UNFACTORED REACTIONS		1ST LC CASE		MAX. MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
F	239	170	0	0	0
C	122	99	0	0	0
D	29	0	0	0	0

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

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

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

LOADING
TOTAL LOAD CASES: (5)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
F-B	-305	B-E	0
A-B	0		
B-C	0		
F-E	0		
E-D	0		

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

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

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.23/1.00 (B-C:1), BC=0.08/1.00 (D-E:4), WB=0.00/1.00 (B-E: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

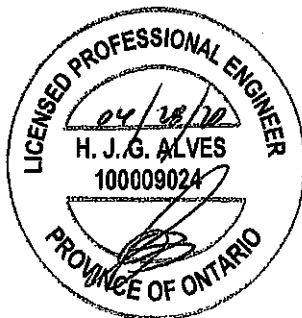
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT

NAIL VALUES
PLATE GRIP(ORY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1697 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

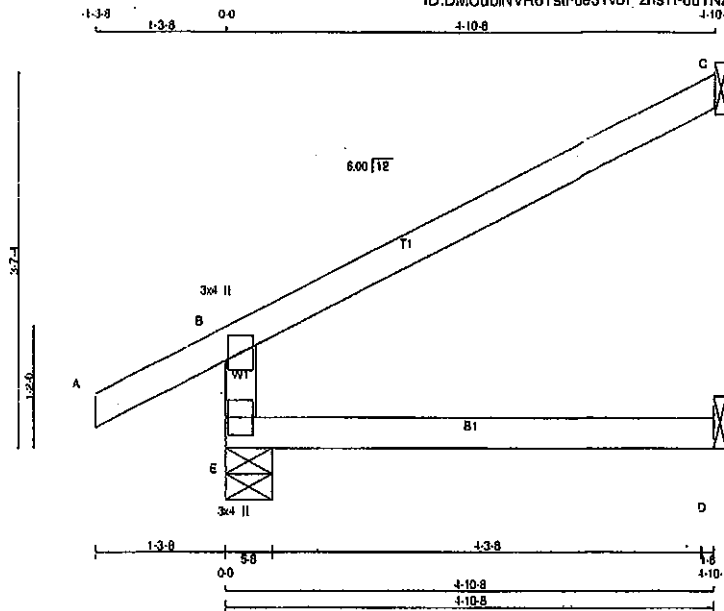
JSI GRIP= 0.24 (B) INPUT = 0.30
JSI METAL= 0.06 (B) INPUT = 1.00



Structural component only
DWG# T-2007625

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	J40	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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Scale = 1:20.5

TOTAL WEIGHT = 2 X 14 = 28 lb

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

DRY: SEASONED LUMBER.

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
E	450	0	450	0	5-8	5-8
C	168	0	168	0	1-8	1-8
D	38	0	42	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	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	320	225	0	0.0	0.0	0.0	95	0.0
C	118	94	0	0.0	0.0	0.0	22	0.0
D	30	0	0	0.0	0.0	0.0	30	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. (PLF)	LOAD LC1	CS1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CS1 (LC)
FR-TO		FROM	TO			FR-TO		
E-B	-404 0	0.0	0.0	0.08 (4)	7.81			
A-B	0 28	-91.8	-91.8	0.12 (1)	10.00			
B-C	-25 0	-91.8	-91.8	0.37 (1)	6.25			
E-D	0 0	-18.5	-18.5	0.09 (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. 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
- TPC 2011, TPC 2014

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

155 % 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 (0.02")

CSI: TC=0.37 1.00 (B-C:1), BC=0.09/1.00 (D-E:4), WB=0.00/1.00 (max:0), SSI=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

AUTOSOLVE RIGHT HEEL ONLY

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 618 354 1887 788 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.17 (E) (INPUT = 0.90)
JSI METAL = 0.11 (B) (INPUT = 1.00)



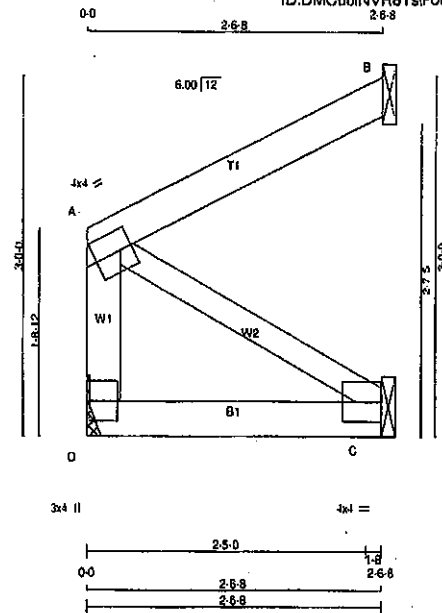
Structural component only
DWG# T-2007657

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408224	J41	5	1	TRUSS DESC.		

Tamareck Roof Truss, Burlington

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Scale = 1:17.8

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMVW-1	MT20	4.0	4.0	2.00 1.25
C	BMV1-1	MT20	4.0	4.0	2.00 Edge
D	BMV1-p	MT20	3.0	4.0	

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	DOWN	HORZ	UPLIFT	BRG	BRG
D	139	0	139	0	0	0	0	MECHANICAL	
B	117	0	117	0	0	1-8	1-8		
C	23	0	25	0	0	1-8	1-8		

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

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINTS B, C

UNFACTORED REACTIONS		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
D	98	65 0	0 0	0 0	0 0	33 0	0 0
B	80	65 0	0 0	0 0	0 0	15 0	0 0
C	18	0 0	0 0	0 0	0 0	18 0	0 0

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX (PLF)	MEMB.	FORCE (LBS)	MAX. UNBRACED LENGTH	FR-TO
D-A	-117 0	0.0	0.0 0.01 (1)	A-C	0 0	7.81	0.00 (1)
A-B	0 0	-91.8	-91.8 0.10 (1)			10.00	
D-C	0 0	-16.5	-16.5 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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCG 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 6.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CS: TC=0.10/1.00 (A-B:1), BC=0.03/1.00 (C-D:4),
WB=0.00/1.00 (A-C:1), SS=0.00/1.00 (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 818 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.07 (A) (INPUT = 0.90)
JSI METAL= 0.02 (A) (INPUT = 1.00)



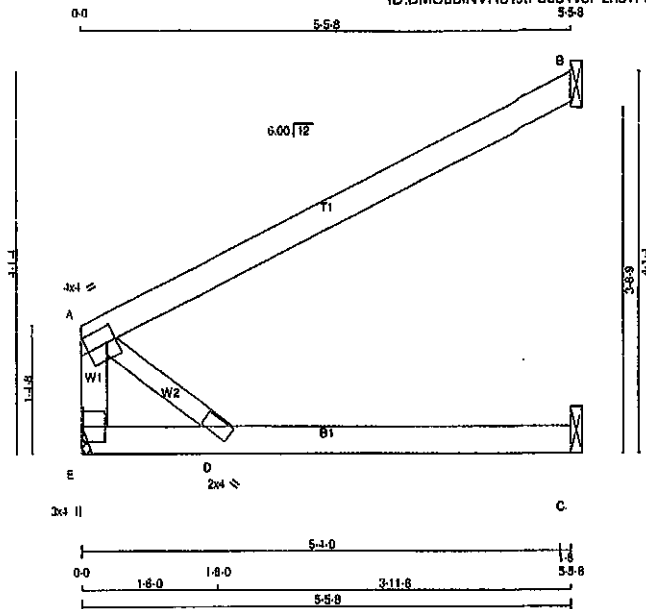
Structural component only
DWG# T-2007658

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	J42	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TstFoe31v6l zns1l-XT8WgE9vHKIGyK?1xSq3XYumIX 1hxqu3YvZPzME7c

Scale = 1:22.5



TOTAL WEIGHT = 2 X 16 = 31 lb

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

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
A	TMW-1	MT20	4.0	4.0 2.00 1.25
D	BMW-1	MT20	2.0	4.0
E	BMV-1	MT20	3.0	4.0

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT	RECORD
JT	GROSS REACTION		GROSS REACTION		BRG	BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
E	301	0	301	0	0	MECHANICAL	
B	250	0	250	0	0	1-8	1-8
C	50	0	57	0	0	1-8	1-8

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

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	213	140 0	0 0	0 0	0 0	0 0	78 0	0 0
B	172	140 0	0 0	0 0	0 0	0 0	33 0	0 0
C	40	0 0	0 0	0 0	0 0	0 0	40 0	0 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: 14)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	CS1 (LC)	MEMB.	FORCE (LBS)	MAX. FORCE (LBS)	CS1 (LC)
FR-TO		FROM TO		FR-TO			
E-A	-250 0	0.0 0.0 0.03 (1)	7.81	A-D	0 0	0.00 (1)	
A-B	0 0	-91.8 -91.8 0.48 (1)	10.00				
E-D	0 0	-18.5 -18.5 0.13 (4)	10.00				
D-C	0 0	-18.5 -18.5 0.18 (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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
• PART 9 OF NBCC 2010, OBC 2012, ABC 2019
• PART 9 OF OBC 2012 (2019 AMENDMENT)
• CSA 088-09, CSA 088-14
• TPIC 2011, TPIC 2014

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 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 (0.04")

CS1: TC=0.48/1.00 (A-B:1), BC=0.18/1.00 (C-D:4), WB=0.00/1.00 (A-D:1), SS1=0.17/1.00 (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 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

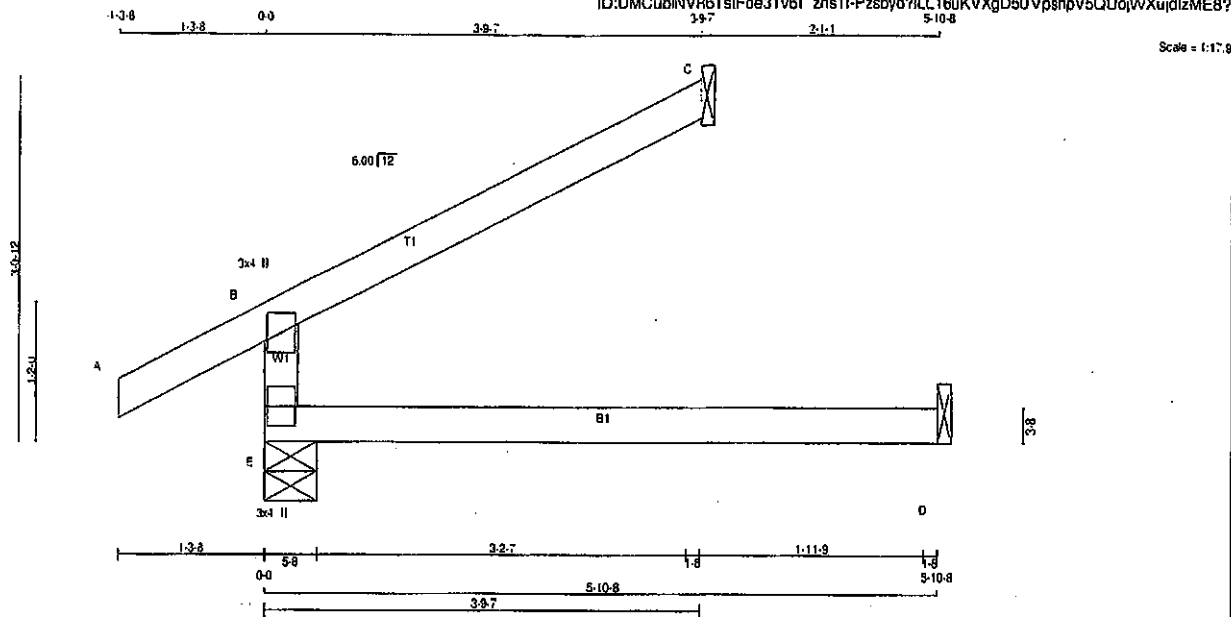


Structural component only
DWG# T-2007659

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ORWNO.
408224	C40	2	1	GREEN PARK HOMES	
				TRUSS DESC.	

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 14 = 28 lb (M)

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

DRY: SEASONED LUMBER.

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

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ
E	405	0	405	0
C	130	0	130	0
D	45	0	50	0

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE			
E	288	190	0	0	0	0
C	90	73	0	0	0	0
D	38	0	0	0	0	0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO	FR-TO			
E-B	342	0	0.0	0.13 (4)	7.81		
A-B	0	28	-91.8	-91.8	0.12 (1)	10.00	
B-C	-19	0	-91.8	-91.8	0.22 (1)	6.25	
E-D	0	0	-18.5	-18.5	0.13 (4)	10.00	

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, 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.

155 % 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=0.22/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), CSI=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	(PSD)	(PLI)	(PLI)
	MAX	MIN	MAX
MT20	618	354	1667

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

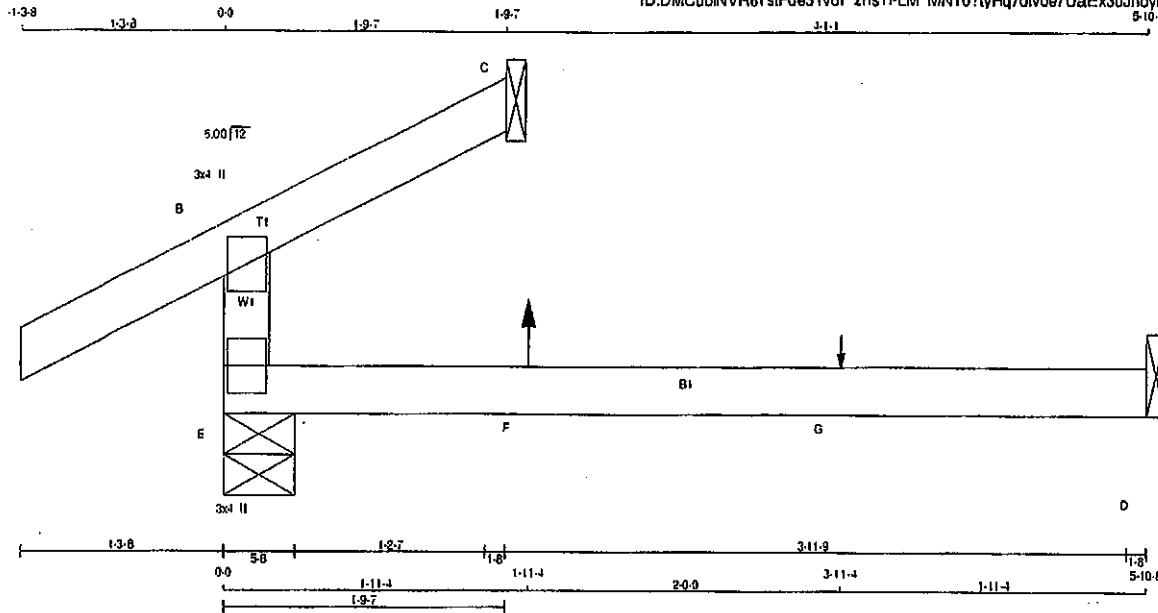


Structural component only
DWG# T-2007648

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	C41	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:13.1

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

DRY: SEASONED LUMBER.

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

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

BEARINGS							
FACTORED				MAXIMUM FACTORED			
GROSS REACTION				GROSS REACTION			
JT	VERT	HORZ		JT	VERT	HORZ	
E	284	0		284	0	0	
C	63	0		63	0	0	
D	44	0		52	0	0	

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

UNFACTORED REACTIONS							
1ST LCASE				MAX. MIN. COMPONENT REACTIONS			
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	200	137	0	0	0	62	0
C	46	21	0	0	0	25	0
D	35	0	3	0	0	37	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)	FACTORED VERT. LOAD (PLF)	MEMB.		MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)
FR-TO	FROM			FR-TO	FROM		
E-B	-227	0	0.0	0.0	0.11	(4)	7.61
A-B	0	28	-91.8	-91.8	0.12	(1)	10.00
B-C	-9	9	-91.8	-91.8	0.08	(4)	10.00
E-F	0	0	-18.5	-18.5	0.14	(4)	10.00
F-G	0	0	-18.5	-18.5	0.14	(4)	10.00
G-D	0	0	-18.5	-18.5	0.14	(4)	10.00

FACTORED CONCENTRATED LOADS (LBS)							
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
F	1-11-4	7	1	12	BACK	VERT	TOTAL
G	3-11-4	1	1	---	BACK	VERT	TOTAL

CONNECTION REQUIREMENTS

II 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/C

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

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

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

155 % 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 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TO=0.12:1.00 (A-B:1), BC=0.14:1.00 (D-E:4), WB=0.09:1.00 (A-B:1), SSI=0.09:1.00 (A-B:1)

DOL LUMBER=0.98 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) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 616 354 1667 788 1937 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

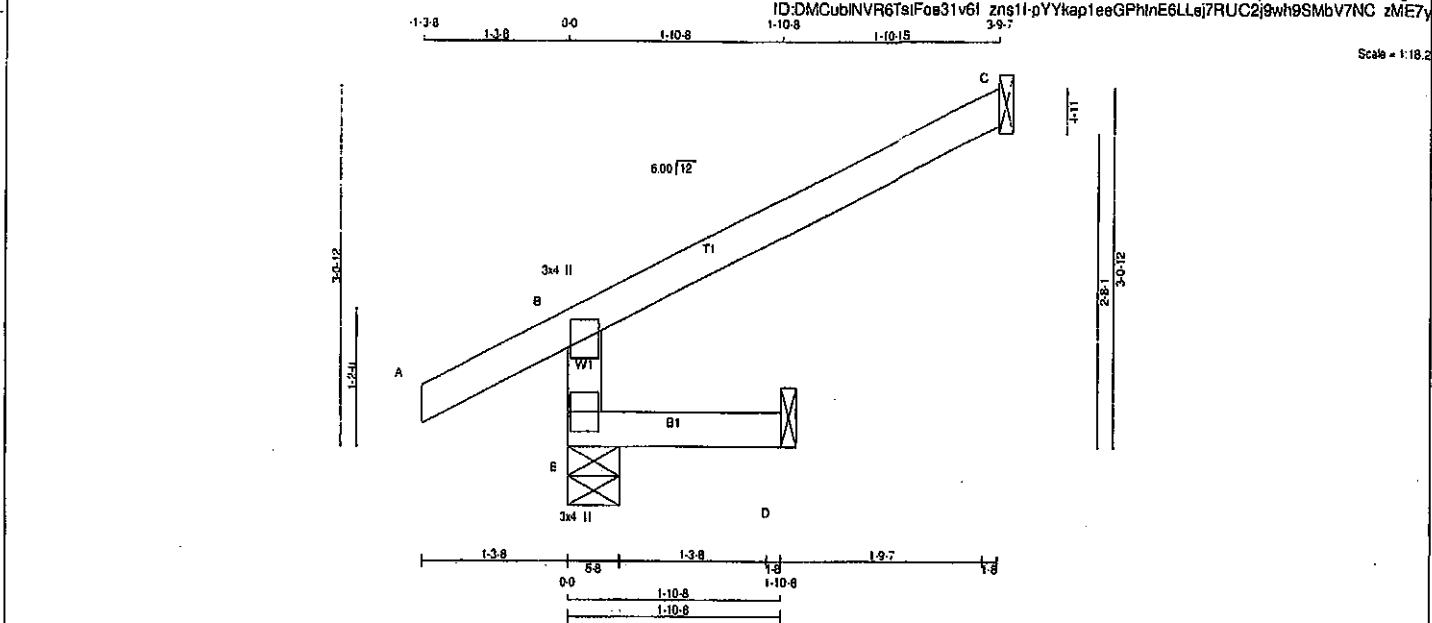
JSI GRIP = 0.10 (E) INPUT = 0.90
JSI METAL = 0.06 (B) INPUT = 1.00



Structural component only
DWG# T-2007649

JOB NAME 408224	TRUSS NAME C42	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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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		REQ'D	
JT	VERT	GROSS	REACTION	GROSS	REACTION	BRG	BRG	IN-SX	IN-SX
E	381	0	381	0	0	5-8	5-8	1-8	1-8
C	130	0	130	0	0	1-8	1-8	1-8	1-8
D	18	0	17	0	0	1-8	1-8	1-8	1-8

SEE MITEK STANDARD DETAIL 897791H FOR CONNECTION TO JOINTS C, D

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	250	190	0	0	0	0	60	0
C	90	73	0	0	0	0	17	0
D	12	0	0	0	0	0	12	0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINTS E

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE	VERT. LOAD	LC1 MAX	MEMB.	FORCE	MAX	CS1 (LC)
FR-TO	(LBS)	FROM TO	CS1 (LC)	UNBRAC	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

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL) = L/360 (0.19')
CALCULATED VERT. DEFL.(LL) = L/999 (0.00')
ALLOWABLE DEFL.(TL) = L/360 (0.19')
CALCULATED VERT. DEFL.(TL) = L/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 (W-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
MT20	518	354	1687
		788	1987
		1656	

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)

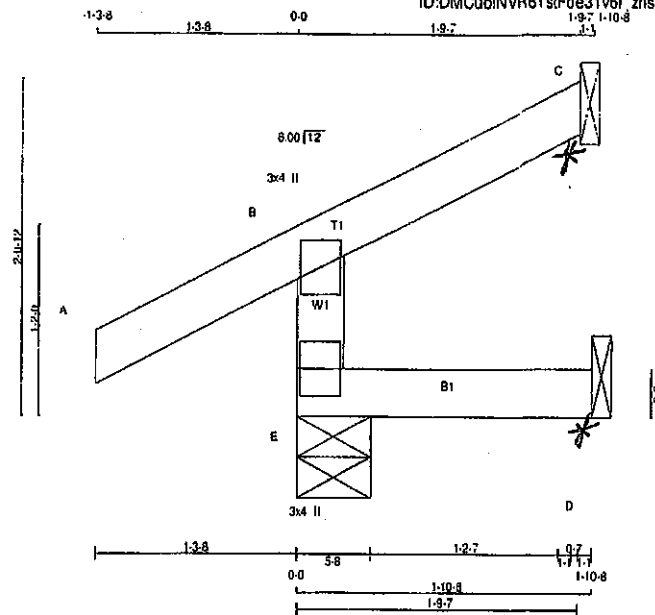


Structural component only
DWG# T-2007650

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DWG NO.
408224	C43	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 3 X 7 = 21 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT	TYPE	PLATES	W	LEN	Y	X
B	TMV1p	MT20	3.0	4.0			
E	BMV1p	MT20	3.0	4.0			

DESCR.
SPF
SPF
SPF

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
	VERT	DOWN	UPLIFT	IN-SX
JT	0	0	0	5-8
E	271	0	0	5-8
C	45	0	23	1-8
D	8	0	2	1-8

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

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	188	141	0	0.0	0.0	47	0
C	31	24	-18	0.0	0.0	7	0
D	7	0	-8	0.0	0.0	12	0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS	MAX. FACTORED	FACTORED	MEMB.	FORCE	VERT. LOAD	LC1	MAX	MAX.	MEMB.	FORCE	MAX
	(LBS)	(PLF)									
FR-TO		FROM	TO	LENGTH	FR-TO						
E-B	-244	0	0.0	0.0	0.04 (5)	7.81					
A-B	0	28	-91.8	-91.8	0.12 (1)	10.00					
B-C	-17	0	-91.8	-91.8	0.09 (1)	6.25					
E-D	0	0	-18.5	-18.5	0.04 (5)	10.00					

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.8	PSF
	DL	=	8.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD	=	39.0	PSF	

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2010, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

156 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.04/1.00 (D-E:5),
WB=0.00/1.00 (n/a:0), SSI=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.10 (E) INPUT = 0.90 1
JSI METAL= 0.07 (B) INPUT = 1.00)



Structural component only
DWG# T-2007851

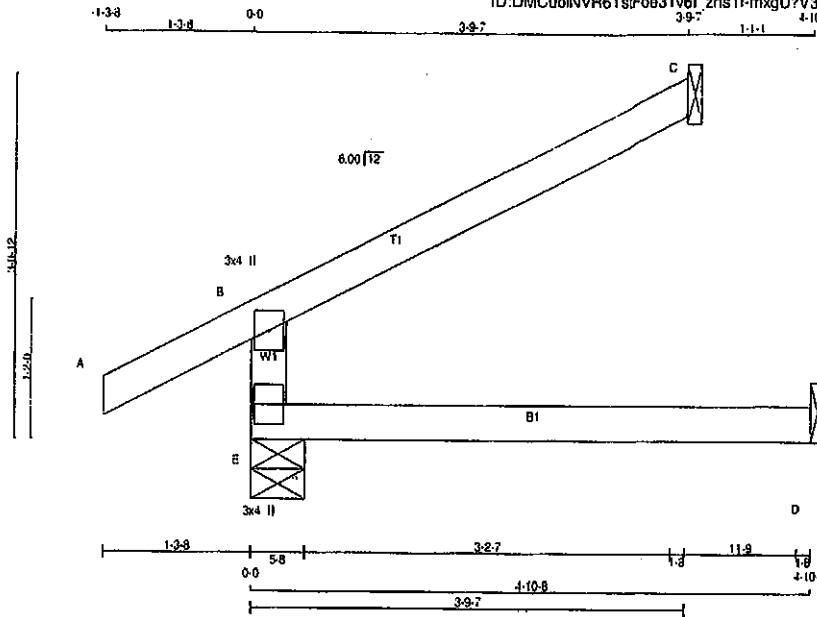
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408224	C44	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:17.8



LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
E	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REORD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX		
E	394	0	394	0	5.8	5.8		
C	130	0	130	0	1.8	1.8		
D	38	0	42	0	1.8	1.8		

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

UNFACTORED REACTIONS

1ST LCASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	277	180 0	0 0	0 0	0 0	87 0	0 0
C	90	73.0	0 0	0 0	0 0	17 0	0 0
D	30	0 0	0 0	0 0	0 0	30 0	0 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				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	LENGTH	FR-TO			
E-B	-342	0.0	0.0 0.08 (4)	7.81			
A-B	0	-91.8	-91.8 0.12 (1)	10.00			
B-C	-19	0	-91.8 -91.8 0.22 (1)	6.25			
E-D	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. O/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS
OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.22(1.00 (B-C:1) , BC=0.09(1.00 (D-E:4) , WB=0.00(1.00 (max:0) , SSI=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 618 354 1067 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.14 (E) (INPUT = 0.80)
JSI METAL = 0.09 (B) (INPUT = 1.00)



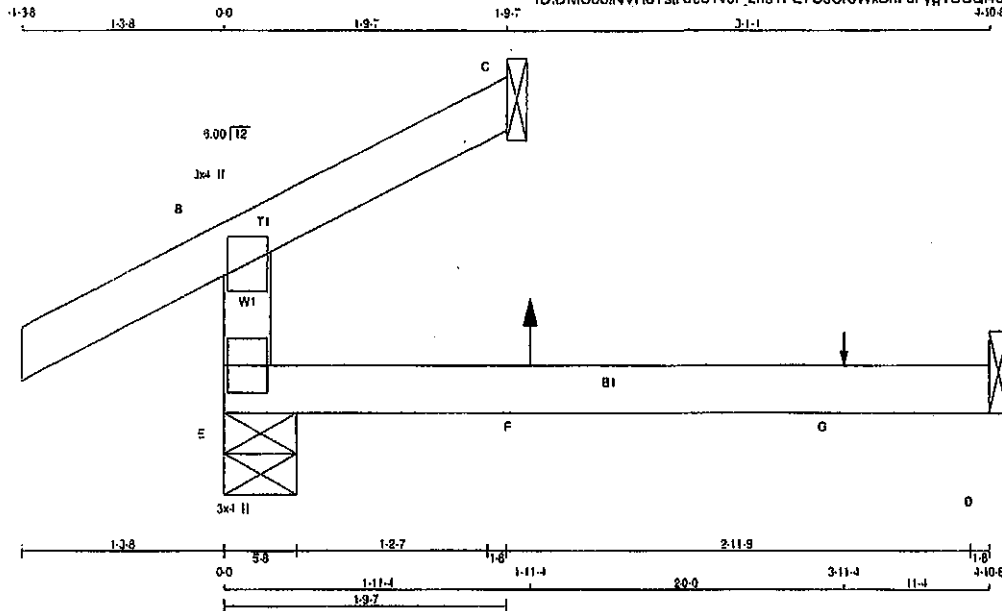
Structural component only
DWG# T-2007652

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408224	C45	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:13.1

TOTAL WEIGHT = 2 X 10 = 21 lb (M)

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

DRY: SEASONED LUMBER.

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

BEARING DESIGNER									
BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQ'D	
JT	GROSS REACTION		GROSS REACTION		BRG	BRG		BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
E	282	0	282	0	0	5-8	5-8		
C	55	0	55	0	0	1-8	1-8		
D	35	0	44	0	0	1-8	1-8		

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

UNFACTORED REACTIONS		1ST CASE		MAX. MIN. COMPONENT REACTIONS		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	DOWN	HORIZ	DOWN	HORIZ	DOWN	HORIZ	DOWN	HORIZ	DOWN	HORIZ
E	188	137	0	0	0	0	0	0	0	61	0	0	0
C	39	21	0	0	0	0	0	0	0	18	0	0	0
D	29	0	4	0	0	0	0	0	0	31	0	0	0

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

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

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

LOADING
TOTAL LOAD CASES: (7)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LBS)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	LC1 MAX (LBS)
FR-TO		FROM	TO		FR-TO		
E-B	-235 0	0.0	0.0	0.07 (4)	7.81		
A-B	0 28	-91.8	-91.8	0.12 (1)	10.00		
B-C	-13 5	-91.8	-91.8	0.07 (5)	6.25		
E-F	0 0	-18.5	-18.5	0.10 (4)	10.00		
F-G	0 0	-18.5	-18.5	0.10 (4)	10.00		
G-D	0 0	-18.5	-18.5	0.10 (4)	10.00		

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

II 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/C

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

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

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

155 % 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 (0.02")

CSI: TC=0.12:1.00 (A-B:1), BC=0.10:1.00 (D-E:4), WB=0.00:1.00 (n/a:0), SS1=0.09:1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.10 (E) INPUT = 0.50
JSI METAL = 0.07 (B) INPUT = 1.00



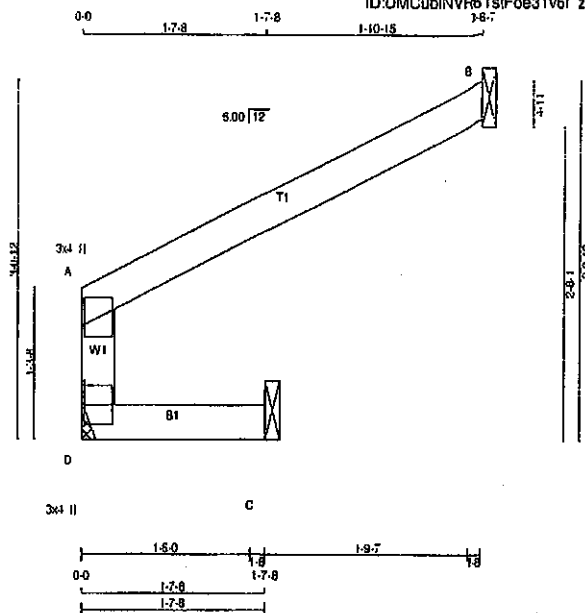
Structural component only
DWG# T-2007653

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408224	C46	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:18.2



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

DRY: SEASONED LUMBER

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
D	155	0	155	0	MECHANICAL	
B	144	0	144	0	1-8	1-8
C	55	0	55	0	1-8	1-8

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

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

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	MAX. MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
D	109	78	0	0	0	31	0
B	99	80	0	0	0	19	0
C	40	23	0	0	0	17	0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS			
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED (PL)	MAX. FACTORED (LC)	MAX. FACTORED UNBRACED LENGTH (FT)	MEMB. FORCE (LBS)
FR-TO						
D-A	-181	0	0.0	0.0	0.08 (1)	7.81
A-B	-8	0	-91.8	-91.8	0.14 (1)	10.00
D-C	0	0	-18.5	-18.5	0.09 (1)	10.00

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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 088-14
- TPIC 2011, TPIC 2014

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

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

CSI: TC=0.14/1.00 (A-B:1), BC=0.09/1.00 (C-D:1),
WB=0.00/1.00 (rva:0), SS1=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

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.08 (D) INPUT = 0.80
JSI METAL = 0.05 (A) INPUT = 1.00



Structural component only
DWG# T-2007654

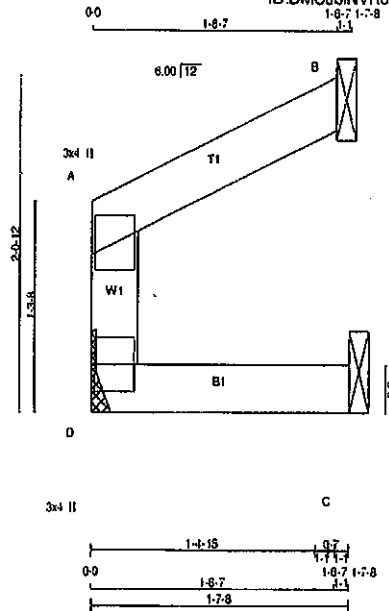
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408224	C47	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

ID:DMCubINVR6tF0e31v6I zns11-AWLddX5mSo1zrY638uEuqV85sks7MQi5knq8uCzME7

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Scale = 1:13.1



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

DRY, SEASONED LUMBER.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	3.0	4.0		
D	BMV+p	MT20	3.0	4.0		

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

BUILDING DESIGNER		MAXIMUM FACTORED		INPUT	REQD		
BEARINGS		GROSS REACTION		BRG	BRG		
JT	VERT	HORIZ	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX
D	66	0	66	0	0	MECHANICAL	
B	67	0	67	0	0	1-8	1-8
C	19	0	19	0	0	1-8	1-8

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

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

UNFACTORED REACTIONS

1ST LOASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
D	61	39 0	0 0	0 0	0 0	21 0	0 0
B	48	37 0	0 0	0 0	0 0	9 0	0 0
C	14	2 0	0 0	0 0	0 0	12 0	0 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC)	UNBRACED LENGTH FR-TO	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)
FR-TO								
D-A	-74	0	0.0	0.0	0.01 (1)	7.81		
A-B	-2	0	-91.8	-91.8	0.03 (1)	10.00		
D-C	0	0	-18.5	-18.5	0.01 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.03, 1.00 (A-B:1), BC=0.01, 1.00 (C-D:4), WB=0.00, 1.00 (n/a:0), SS=0.05, 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
MT20	818	354
	1687	788
	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.03 (D) (INPUT = 0.90)
JSI METAL = 0.02 (A) (INPUT = 1.00)



Structural component only
DWG# T-2007655

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:

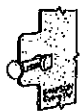
- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for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

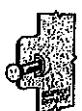
- LUS, LJS, LUL and HUS hangers cannot be modified.
- Other sizes available; consult your Simpson Strong-Tie representative.
- See Hanger Options Information on p. 126.



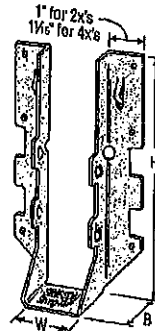
Double-Shear Nailing Top View



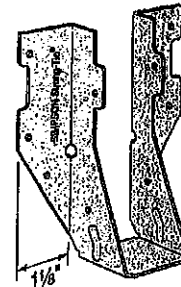
Double-Shear Nailing Side View; Do not bend tab



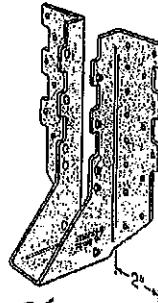
Double-Shear Nailing Side View (available on some models)
U.S. Patent 5,603,580



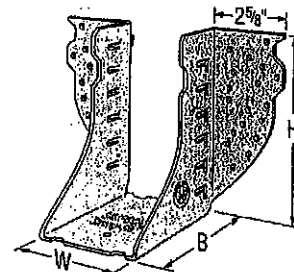
LUS28



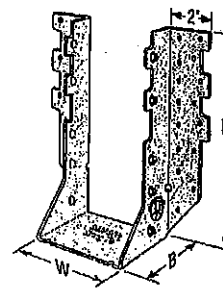
LU26L



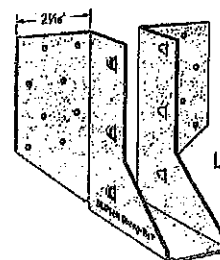
HUS210
(HUS26, HUS28, and HHUS similar)



HGUS28-2

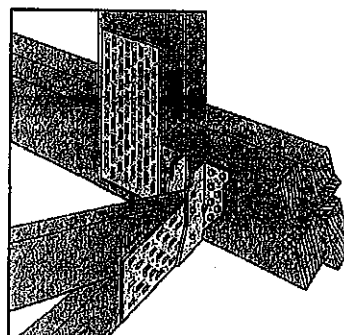


HHUS210-2



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.

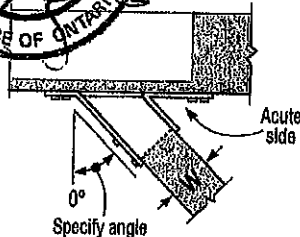
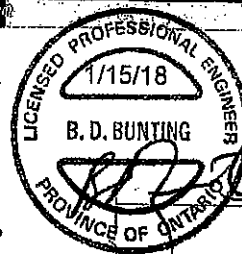
HHUS — Sloped and/or Skewed Seat

- 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 0.82 of the table value
- The joist must be bevel-cut to allow for double-shear nailing

HGUS — Skewed Seat

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

HGUS Seat Width	Joist	Down Resistance	Uplift
W < 2"	Bevel or square cut	0.82 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) lb.	(K _D = 1.00) lb.	(K _D = 1.15) lb.	(K _D = 1.00) lb.
Single 2x Sizes											
LUS24	18	1 1/8	3 1/4	1 1/4	2 1/4	(4) 10d	(2) 10d	710	1626	845	1155
								3.16	7.23	2.87	5.14
LU24L	22	1 1/8	3	1 1/4	2 1/8	(4) 10d	(2) 10d x 1 1/2"	360	1020	320	726
								1.60	4.54	1.42	3.22
LU26L	22	1 1/8	5	1 1/4	4 1/4	(6) 10d	(4) 10d x 1 1/2"	720	1806	645	1140
								3.20	7.14	2.87	5.07
SS LUS26	18	1 1/8	4 1/4	1 1/4	3 3/4	(4) 10d	(4) 10d	1420	2170	1290	1830
								6.32	9.65	5.74	7.25
HUS26	18	1 1/8	5 1/4	3	3 3/8	(14) 16d	(8) 16d	2705	4940	2065	3875
								11.30	21.97	9.20	17.24
LJS26DS	18	1 1/8	5	3 1/4	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 1/4	5	4 1/4	(20) 16d	(8) 16d	2885	6825	2685	5700
								11.96	28.51	11.96	25.35
LU28L	20	1 1/8	6 1/4	1 1/4	5 1/4	(8) 10d	(6) 10d x 1 1/2"	1140	2185	1020	1550
								5.07	9.72	4.54	8.89
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 1/4	3	6 1/8	(22) 16d	(8) 16d	3805	5365	2675	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 1/4	7 1/4	(10) 10d	(8) 10d x 1 1/2"	1140	2495	1020	1770
								5.07	11.10	4.54	7.87
SS LUS210	18	1 1/8	7 1/4	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 16% 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 3/4" long. See pp. 27–28 for other nail sizes and information.

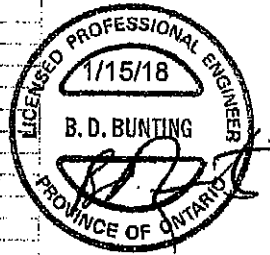
Face-Mount Hangers

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 _h	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
Double 2x Sizes											
LUS24-2	18	3 1/8	3 1/8	2	1 1/2	(4) 16d	(2) 16d	635	2020	590	1435
SS LUS26-2	18	3 1/8	4 1/8	2	4	(4) 16d	(4) 16d	3.71	8.89	2.62	6.38
HHUS26-2	14	3 1/8	5 1/8	3	3 1/8	(14) 16d	(6) 16d	1720	2595	1545	1920
HGUS26-2	12	3 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	7.65	11.54	6.87	8.64
SS LUS28-2	18	3 1/8	7	2	4	(6) 16d	(4) 16d	2850	7335	2065	5205
HHUS28-2	14	3 1/8	7 1/8	3	6 1/8	(22) 16d	(8) 16d	12.68	32.63	9.20	23.15
HGUS28-2	12	3 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	4385	8950	3110	6355
SS LUS210-2	18	3 1/8	9	2	6	(8) 16d	(6) 16d	18.51	39.81	13.83	28.27
HHUS210-2	14	3 1/8	9 1/8	3	8	(30) 16d	(10) 16d	1720	3325	1545	2575
HGUS210-2	12	3 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	7.65	14.79	6.87	11.45
								3765	8940	2675	6345
								16.75	39.77	11.90	28.22
								6070	12980	4310	9215
								27.00	57.74	19.17	40.99
								2580	4500	2320	3195
								11.48	20.02	10.32	14.21
								4670	9660	4235	7000
								20.77	42.97	18.84	31.14
								6840	14015	4855	10270
								30.43	62.34	21.60	45.69
Triple 2x Sizes											
HGUS26-3	12	4 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355
HGUS28-3	12	4 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	18.51	39.81	13.83	28.27
HHUS210-3	14	4 1/8	9	3	7 1/8	(30) 16d	(10) 16d	6070	12980	4310	9215
HGUS210-3	12	4 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	27.00	57.74	19.17	40.99
								4670	9670	4235	6865
								20.77	43.02	18.84	30.64
								6840	14645	4855	10400
								30.43	65.14	21.60	46.28
Quadruple 2x Sizes											
HGUS26-4	12	6 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355
HGUS28-4	12	6 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	18.51	39.81	13.83	28.27
HHUS210-4	14	6 1/8	8 1/8	3	7 1/8	(30) 16d	(10) 16d	6070	12980	4310	9215
HGUS210-4	12	6 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	27.00	57.74	19.17	40.99
								4670	10155	4235	7210
								20.77	45.17	18.84	32.07
								6840	14645	4855	10400
								30.43	65.14	21.60	46.26
HGUS212-4	12	6 1/8	10 1/8	4	10 1/8	(56) 16d	(20) 16d	7640	14995	5425	10645
HGUS214-4	12	6 1/8	12 1/8	4	11 1/8	(66) 16d	(22) 16d	33.98	66.70	24.13	47.35
								10130	16400	7195	11645
								45.06	72.95	32.00	51.80
4x Sizes											
LUS46	18	3 1/8	4 1/8	2	3 1/8	(4) 16d	(4) 16d	1720	2595	1545	1920
HHUS46	14	3 1/8	5 1/8	3	3 1/8	(14) 16d	(6) 16d	7.65	11.54	6.87	8.64
HGUS46	12	3 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	2540	7335	2065	5205
LUS48	18	3 1/8	6 1/8	2	3 1/8	(6) 16d	(4) 16d	11.30	32.63	9.20	23.15
HHUS48	14	3 1/8	7 1/8	3	6 1/8	(22) 16d	(8) 16d	4385	8950	3110	6355
HGUS48	12	3 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	18.51	39.81	13.83	28.27
LUS410	18	3 1/8	8 1/8	2	5 1/8	(8) 16d	(6) 16d	1720	3325	1545	2575
HGUS410	12	3 1/8	9	4	8 1/8	(48) 16d	(16) 16d	7.65	14.79	6.87	11.45
								3765	8940	2675	6345
								16.75	39.77	11.90	28.22
								6070	12980	4310	9215
								27.00	57.74	19.17	40.99
								2580	4500	2320	3195
								11.48	20.02	10.32	14.21
								4670	9660	4235	7000
								20.77	42.97	18.84	31.14
								6840	14015	4855	10270
								30.43	62.34	21.60	45.69
								7640	14995	5425	10645
								33.98	66.70	24.13	47.35
								10130	16400	7195	11645
								45.06	72.95	32.00	51.80



Plated Truss Connectors

See footnotes
on p. 258.

TC - Truss Connectors

SIMPSON
Strong-Tie

The TC truss connector is an ideal connector for scissor trusses and can allow horizontal movement up to 1/4". The TC also attaches plated trusses to top plates or sill plates to resist uplift forces. Typically used on one or both ends of truss as determined by the building designer.

Material: 16 gauge

Finish: G90 galvanized

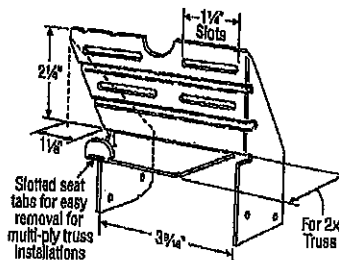
Design: Factored resistances are in accordance with CSA 086-14

Installation:

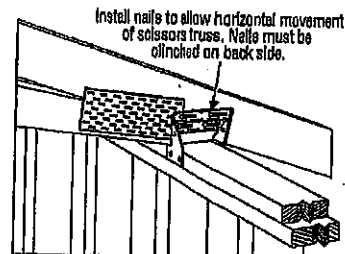
- Use all specified fasteners.
- Nails: 10d = 0.148" dia. x 3" long common wire, 10d x 1 1/2" = 0.148" dia. x 1 1/2" long.
- Drive 10d nails into the truss at the inside end of the slotted holes (inside end is towards the centre of the truss) and clinch on the back side. Do not seat these nails into the truss—allow room under the nail head for movement of the truss with respect to the wall.

Optional TC Installation:

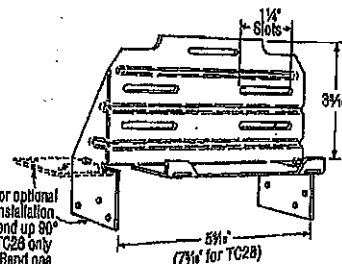
- Bend one flange up 90°. Drive specified nails into the top and face of the top plates or install Titen® screws into the top and face of masonry wall. See optional load tables and installation details.



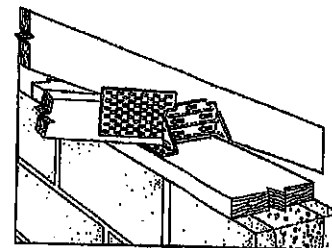
TC24
U.S. Patent 4,932,173



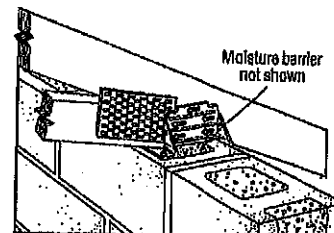
Typical TC24 Installation



TC26
(TC28 Similar)



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



Optional TC26 Installation for Grouted Concrete Block using Titen Screws

Model No.	Fasteners		Factored Resistance	
	Truss	Wall Plates	D.Fir-L	S-P-F
			Uplift ($K_F=1.15$)	Uplift ($K_F=1.15$)
TC24	(4) 10d	(4) 10d	805	430
TC26	(6) 10d	(6) 10d	1015	720
TC28	(6) 10d	(6) 10d	1015	720

Optional TC Installation Table

Model No.	Fasteners		Factored Resistance	
	Truss	Wall Plates	D.Fir-L	S-P-F
			Uplift ($K_F=1.15$)	Uplift ($K_F=1.15$)
TC28	(5) 10d	(8) 10d x 1 1/2"	810	680
	(5) 10d	(8) 10d	930	680

1. Factored resistances have been increased 15% for earthquake or wind loading; no further increase allowed; reduce where other loads govern.
2. Grout strength is 15 MPa minimum.
3. Optional TC26 installation with 10d nails requires minimum 3" top plate thickness.
4. TC28 fastened to grouted concrete block with (8) - 3/8" x 2 1/4" Titen screws has a factored uplift resistance of 276 lb.



UNITED STATES
DESIGN

10000 Highway 100, Suite 100
St. Louis, MO 63143
(314) 991-5099
www.strongtie.com

PROFESSIONAL

(800) 999-5099
strongtie.com

H/TSP

SIMPSON
Strong-Tie

Seismic and Hurricane Ties (cont.)

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

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

Model No.	Ga.	Fasteners			Factored Resistance ($K_D = 1.15$)					
		To Rafters/Truss	To Plates	To Studs	D.Fir-L			S-P-F		
					Uplift	Lateral		Uplift	Lateral	
						F ₁	F ₂		F ₁	F ₂
					lb.	lb.	lb.	lb.	lb.	lb.
					kN	kN	kN	kN	kN	kN
H1	18	(6) 8d x 1½"	(4) 8d	—	740	685	300	680	485	215
					3.29	3.05	1.33	3.02	2.16	0.98
SS H2A	18	(5) 8d x 1½"	(2) 8d x 1½"	(5) 8d x 1½"	830	220	75	590	155	55
					3.69	0.98	0.33	2.62	0.69	0.24
SS H2.5A	18	(5) 8d	(5) 8d	—	805	160	160	755	160	160
					3.58	0.71	0.71	3.38	0.71	0.71
H2.5T	18	(5) 8d	(5) 8d	—	835	175	210	740	160	210
					3.71	0.78	0.93	3.29	0.71	0.93
SS H3	18	(4) 8d	(4) 8d	—	740	180	265	615	125	190
					3.29	0.80	1.18	2.74	0.56	0.85
H6	16	—	(8) 8d	(8) 8d	1585	1085	—	1125	770	—
					7.05	4.83	—	5.00	3.43	—
H7Z	16	(4) 8d	(2) 8d	(8) 8d	1390	670	—	990	475	—
					6.18	2.98	—	4.40	2.11	—
SS H8 ³	18	(5) 10d x 1½"	(5) 10d x 1½"	—	1120	—	—	1025	—	—
					4.98	—	—	4.56	—	—
SS H10A ⁹	18	(8) 10d x 1½"	(9) 10d x 1½"	—	1735	795	410	1505	565	290
					7.72	3.54	1.82	6.69	2.51	1.29
H10AR	18	(8) 10d x 1½"	(9) 10d x 1½"	—	1485	690	430	1220	570	305
					6.61	3.07	1.91	5.43	2.54	1.36
H10A-2	18	(9) 10d x 1½"	(9) 10d x 1½"	—	1835	1275	430	1645	880	305
					8.16	5.67	1.91	7.32	3.91	1.36
H10S ^{7,8}	18	(8) 8d x 1½"	(8) 8d x 1½"	(8) 8d	1465	795	315	1040	565	225
					6.52	3.54	1.40	4.63	2.51	1.00
H11Z	18	(6) 16d x 2½"	(6) 16d x 2½"	—	1095	920	545	780	655	390
					4.87	4.09	2.42	3.47	2.91	1.73
H14	18	[1] (12) 8d x 1½"	(13) 8d	—	2390	855	320	1805	610	230
					10.63	3.80	1.42	8.03	2.71	1.02
		[2] (12) 8d x 1½"	(15) 8d	—	2390	855	320	1805	610	230
					10.63	3.80	1.42	8.03	2.71	1.02
TSP	16	(9) 10d x 1½"	(6) 10d x 1½"	—	1285	440	—	920	310	—
					5.76	1.98	—	4.09	1.38	—
		(9) 10d x 1½"	(6) 10d	—	1560	440	—	1105	310	—
					6.94	1.98	—	4.92	1.38	—

- Factored resistances have been increased 15% for short term loading; no further increase is allowed.
- Factored resistances are for one anchor. A minimum rafter thickness of 2½" must be used when framing anchors are installed on the same side of the plate (exception: H2.5A).
- H8 factored uplift resistances for stud-to-bottom plate installations are 595 lb. (2.65 kN) for D.Fir-L and 390 lb. (1.74 kN) for S-P-F.
- When cross-grain bending or cross-grain tension cannot be avoided, mechanical reinforcement to resist such forces should be considered.
- Hurricane ties are shown installed on the outside of the wall for clarity. Installation on the inside of the wall is acceptable. For a continuous load path, connections at the top and bottom of the wall must be on the same side of the wall (see technical bulletin T-HIECONPATH).
- Factored resistances in the F₁ direction are not intended to replace diaphragm boundary members or prevent cross grain bending of the truss or rafter members. Additional shear transfer elements shall be considered where there may be effects of cross grain bending or tension.

- H10S can have the stud offset a maximum of 1" from the rafter (centre to centre) for a reduced uplift of 1435 lb. (6.38 kN) D.Fir-L and 1015 lb. (4.51 kN) S-P-F.
- H10S nails to plates are optional for uplift but required for lateral loads.
- H10A may be field-bent up to a slope of 8/12. Multiply the tabulated uplift value x 0.75. Full tabulated lateral resistances apply.
- The factored resistances of stainless-steel connectors match carbon-steel connectors when installed with Simpson Strong-Tie® stainless-steel, SCNR ring-shank nails. For more information, refer to engineering letter L-F-SSNAILS at strongtie.com.
- D.Fir-L/S-P-F factored uplift resistances for the H2.5A fastened to a 2x4 truss bottom chord and double top plates using (5) 8d x 1½" nails into the top plates and (3) 8d x 1½" nails into the lowest three flange holes into the truss bottom chord is 495 lb. (2.20 kN).
- Nails: 16d x 2½" = 0.162" dia. x 2½" long, 10d = 0.148" dia. x 3" long, 10d x 1½" = 0.148" dia. x 1½" long, 8d = 0.131" dia. x 2½" long, 8d x 1½" = 0.131" dia. x 1½" long. See pp. 27-28 for other nail sizes and information.