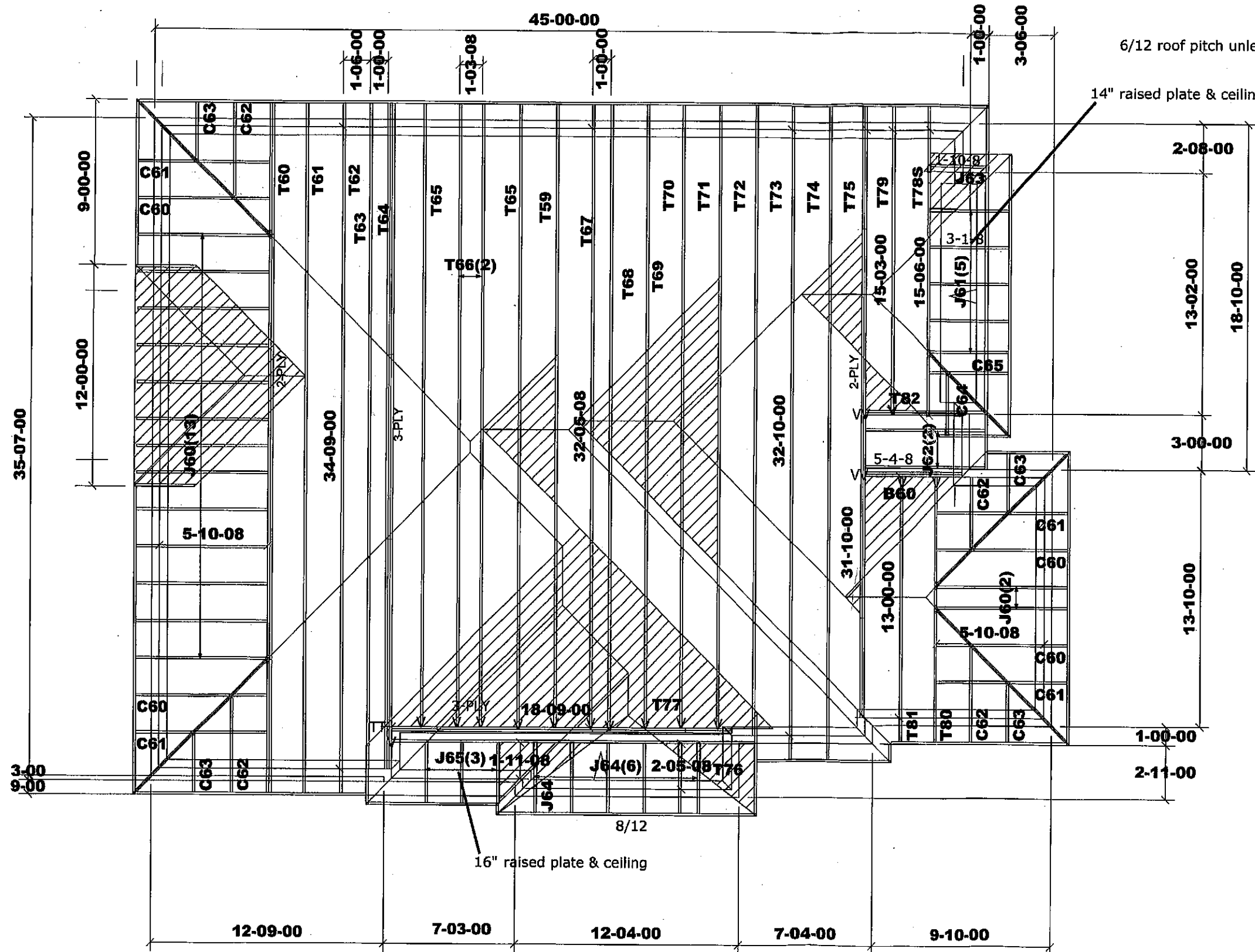




ASPHALT SHINGLES
 FINISHED OVERHANG: 12"
 2x6 EXTERIOR WALLS
 2x6 FASCIA BOARD
 HEEL: R.T.M.C.

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'.

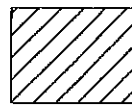
DESIGN CONFORMS WITH OBC 2012 (2019 amendment) OCCUPANCY: RESIDENTIAL | PART: 9
 Ss = 31.35 psf | Sr = 8.4 psf

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

HARDWARE:
 LUS24 - (O)
 LJS26DS - (V)
 THGQ2-SDS3(MAX)- (TT)
 LUS26-2-(VV)

BEAMS:
 B60= 2 - 2x10 SPF #2

CITY OF HAMILTON
 Building Division



NOTES:
 THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE
 THE OWNER AND/OR CONTRACTOR SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW

These drawings and/or specifications have been reviewed by
 FOR CHIEF BUILDING OFFICIAL
 DATE
 MAR 09 2021

M13139



Job Track: 51225	Builder / Location: GREEN PARK HOMES / WATERDOWN	Model / Elevation: MOUNTAINASH 11S FL3 LOT 98	Mink ver 8.3.1.215
Plan Log: 202438	Project: RUSSELL GARDENS PH.3	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.	
Layout ID: 408314	Date: 2020-04-29	Sales: Mario DiCano	Designer: JG



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH.3
 Location: WATERDOWN
 Model: MOUNTAINASH 11S
 Lot #: 98
 Elevation: 3

Job Track: 51225
 PlanLog: 202438
 Layout ID: 408314
 Ref #
 Page: 1 of 3
 Date: 04-29-2020
 Designer:
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	T69 Hip	6/12	32-05-08	7-04-04	2 x 4	1-03-08	1-02-00 2-03-12	137.61 86.33		
	1 2-ply	T60 Hip Girder	6/12	34-09-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	305.58 190.00		
	1	T61 Hip	6/12	34-09-00	5-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	137.77 86.33		
	1	T62 Hip	6/12	34-09-00	6-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	137.34 86.00		
	1	T63 Hip	6/12	34-09-00	6-10-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	141.78 89.17		
	1 3-ply	T64 Hip Girder	6/12	34-09-00	7-04-04	2 x 4 2 x 8	1-03-08 1-03-08	1-02-00 1-02-00	601.89 372.50		
	2	T65 Hip	6/12	32-05-08	8-04-04	2 x 4	1-03-08	1-02-00 2-03-12	265.64 164.67		
	2	T66 Hip	6/12	32-05-08	9-04-04	2 x 4	1-03-08	1-02-00 2-03-12	300.63 189.67		
	1	T67 Hip	6/12	32-05-08	8-08-04	2 x 4	1-03-08	1-02-00 1-04-04	134.52 84.33		
	1	T68 Hip	6/12	32-05-08	8-02-04	2 x 4	1-03-08	1-02-00 1-04-04	131.57 81.83		
	1	T69 Hip	6/12	32-05-08	7-02-04	2 x 4	1-03-08	1-02-00 1-04-04	136.04 84.83		
	1	T70 Hip	6/12	32-05-08	6-02-04	2 x 4	1-03-08	1-02-00 1-04-04	129.64 81.00		
	1	T71 Hip	6/12	32-05-08	5-02-04	2 x 4	1-03-08	1-02-00 1-04-04	129.91 82.00		
	1	T72 Roof Special	6/12	32-10-00	6-10-04	2 x 4	1-03-08	1-02-00 1-02-00	137.77 87.50		

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH.3
 Location: WATERDOWN
 Model: MOUNTAINASH 11.3
 Lot #: 98
 Elevation: 3

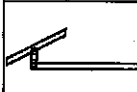
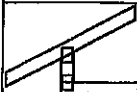
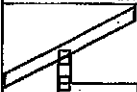
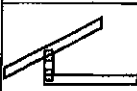
Job Track: 51225
 PlanLog: 202438
 Layout ID: 408314
 Ref #
 Page: 2 of 3
 Date: 04-29-2020
 Designer:
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	T73 Roof Special	6/12	32-10-00	5-10-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	131.66 84.33		
	1	T74 Roof Special	6/12	32-10-00	4-10-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	128.86 81.50		
	1 2-ply	T75 Hip Girder	6/12	31-10-00	3-10-04	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	281.04 172.67		
	1	T76 Roof Special Girder	6/12	18-09-00	4-04-08	2 x 4	1-03-08	1-02-00 1-02-00	73.99 49.33		
	1 2-ply	T77 Hip Girder	6/12	18-09-00	3-09-04	2 x 4 2 x 6		2-06-00 2-06-00	194.56 122.67		
	1	T78S Hip Girder	6/12	15-06-00	4-00-12	2 x 4	1-03-08	1-02-00 1-00-08	83.02 42.17		
	1	T79 Hip	6/12	15-03-00	5-00-12	2 x 4	1-03-08	1-02-00 2-06-00	84.54 42.17		
	1	T80 Hip Girder	6/12	13-00-00	4-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	54.28 35.33		
	1	T81 Common	6/12	13-00-00	4-05-00	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	52.02 32.00		
	1 2-ply	T82 Flat Girder	0/12	5-04-08	1-04-00	2 x 6		1-04-00 1-04-00	48.25 31.67		
	15	J60 Jack-Open	6/12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	251.92 160.00		
	5	J61 Jack-Open	6/12	3-01-08	2-08-12	2 x 4	1-03-08	1-02-00 2-08-12	50.76 36.67		
	2	J62 Jack-Open	6/12	5-04-08	3-10-04	2 x 4	1-03-08	1-02-00 3-10-04	31.17 20.00		
	1	J63 Jack-Open	6/12	1-10-08	2-01-04	2 x 4	1-03-08	1-02-00 2-01-04	7.13 4.67		

 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST	
	Lumber Yard: TAMARACK LUMBER Builder: GREEN PARK HOMES Project: RUSSELL GARDENS PH.3 Location: WATERDOWN Model: MOUNTAINASH 11S Lot #: 98 Elevation: 3	Job Track: 51225 PlanLog: 202438 Layout ID: 408314 Ref # Page: 3 of 3 Date: 04-29-2020 Designer: Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	6	J64 Jack-Open	8 /12	2-05-08	3-00-08	2 x 4	1-03-08	1-04-13 3-00-08	67.09 45.00		
	3	J65 Jack-Open	6 /12	1-11-08	2-01-12	2 x 4	1-03-08	1-02-00 2-01-12	22 14.00		
	4	C60 Jack-Open	6 /12	3-09-07	3-00-12	2 x 4	1-03-08 2-01-01	1-02-00 3-00-12	56.53 34.67		
	4	C61 Jack-Open	6 /12	1-09-07	2-00-12	2 x 4	1-03-08 4-01-01	1-02-00 2-00-12	46.33 29.33		
	4	C62 Jack-Open	6 /12	1-10-08	3-00-12	2 x 4	1-03-08 1-10-15	1-02-00 2-01-04	38.28 24.00		
	4	C63 Jack-Open	6 /12	1-09-07	2-00-12	2 x 4	1-03-08 1-01	1-02-00 2-00-12	28.08 18.67		
	1	C64 Jack-Open	6 /12	1-10-15	2-01-08	2 x 4	1-03-08 1-01	1-02-00 2-01-08	7.32 4.67		
	1	C65 Jack-Open	6 /12	1-10-15	2-01-08	2 x 4	1-03-08 1-02-09	1-02-00 2-01-08	8.61 6.00		
TOTAL # TRUSS= 82 TOTAL BFT OF ALL TRUSSES= 2857.68 BFT. TOTAL WEIGHT OF ALL TRSSES 4534.94 LBS											

HARDWARE

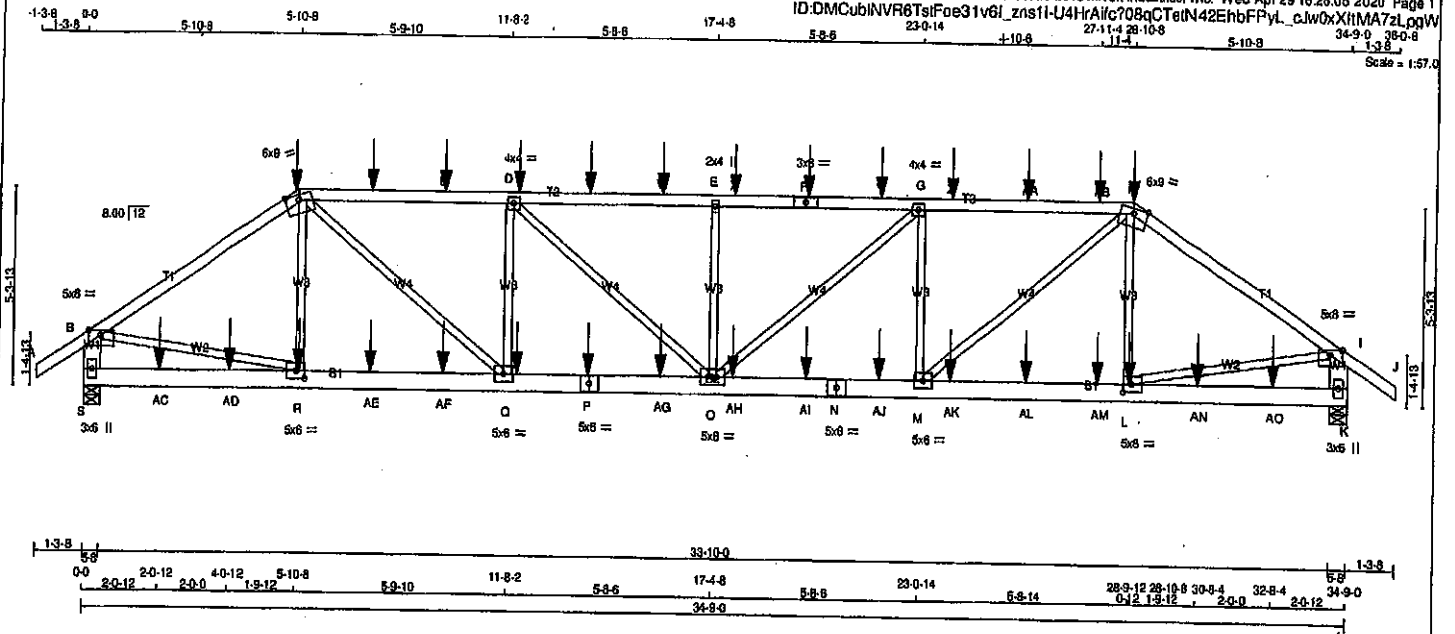
QTY	TYPE	MODEL	LENGTH
14	Hardware	LJS26DS	
2	Hardware	LUS28-2	
1		THGQ2-SDS3(MAX)	

TOTAL NUMBER OF
ITEMS=

17

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408312	T1	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Wed Apr 29 16:28:05 2020 Page 1
ID:DMCubINVR6TstFoe31v6i_zns11-U4HrAilc708qCTeN42EhbFPyL_cJw0Xh1MA7zLqgW
23-0-14 27-11-4 28-10-8 34-9-0 36-0-8 1-3-8
Scale = 1:57.0



LUMBER	SIZE	DRY	DESCR.
N. L. G. A. RULES			
CHORDS			
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	2x6	DRY	No.2
K - I	2x6	DRY	No.2
S - P	2x6	DRY	No.2
P - N	2x6	DRY	No.2
N - K	2x6	DRY	No.2
ALL WEBS	2x3	DRY	No.2
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-F	12	SIDE (61.0)
F-H	12	SIDE (61.0)
H-J	12	SIDE (61.0)
S-B	12	TOP
K-I	12	TOP
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS		
S-P	12	SIDE (183.1)
P-N	12	SIDE (0.0)
N-K	12	SIDE (183.1)
WEBS: (0.122"x3") SPIRAL NAILS		
R-C	6	SIDE (20.4)
L-H	6	SIDE (20.4)
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	VERT	DOWN	UP	IN-SX
S	3834	0	0	5-8
K	3908	0	0	5-8

UNFACTORED REACTIONS	1ST LCASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW
S	2710	1789 / 0
K	2782	1823 / 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 = 2.80 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING		TOTAL LOAD CASES: (4)	
CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LCI (PLF)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO	
A-B	0 / 35	-91.8	-91.8 0.07 (1)
B-C	-4840 / 0	-91.8	-91.8 0.54 (1)
C-T	-6316 / 0	-91.8	-91.8 0.75 (1)
T-U	-6316 / 0	-91.8	-91.8 0.75 (1)
U-D	-6316 / 0	-91.8	-91.8 0.75 (1)
D-V	-6992 / 0	-91.8	-91.8 0.80 (1)
V-W	-6992 / 0	-91.8	-91.8 0.80 (1)
W-E	-6992 / 0	-91.8	-91.8 0.80 (1)
E-X	-6992 / 0	-91.8	-91.8 0.86 (1)
X-F	-6992 / 0	-91.8	-91.8 0.86 (1)
F-Y	-6992 / 0	-91.8	-91.8 0.86 (1)
Y-G	-6992 / 0	-91.8	-91.8 0.88 (1)
G-Z	-6368 / 0	-91.8	-91.8 0.81 (1)
Z-AA	-6368 / 0	-91.8	-91.8 0.81 (1)
AA-AB	-6368 / 0	-91.8	-91.8 0.81 (1)
AB-H	-6368 / 0	-91.8	-91.8 0.81 (1)
H-I	-4946 / 0	-91.8	-91.8 0.65 (1)
I-J	0 / 35	-91.8	-91.8 0.07 (1)
S-B	-3758 / 0	0.0	0.0 0.13 (1)
K-I	-3831 / 0	0.0	0.0 0.14 (1)

WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LENGTH FR-TO	MAX. FACTORED CSI (LC)
R-C	-4289 / 44	10.00	0.08 (1)
Q-Q	0 / 3021	3.98	0.37 (1)
Q-D	-1749 / 0	2.20	0.38 (1)
P-O	0 / 894	3.20	0.11 (1)
O-E	-943 / 0	2.99	0.19 (1)
E-G	0 / 828	2.99	0.10 (1)
M-H	-1715 / 0	2.99	0.35 (1)
L-H	0 / 2971	2.99	0.37 (1)
R-H	-427 / 80	2.99	0.09 (1)
L-I	0 / 4078	2.99	0.50 (1)
	0 / 4167	2.99	0.52 (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

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

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

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

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

ALLOWABLE DEFL. (LL) = L/360 (1.18')
CALCULATED VERT. DEFL. (LL) = L/999 (0.18')
ALLOWABLE DEFL. (TL) = L/360 (1.18')
CALCULATED VERT. DEFL. (TL) = L/999 (0.34')

CSI: TC=0.88/1.00 (E-G:1), BC=0.48/1.00 (M-O:1), WB=0.52/1.00 (L:1), SS=0.28/1.00 (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 (PS)	SECTION (PL)

PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (R) (INPUT = 0.80)

JSI METAL= 0.61 (N) (INPUT = 1.00)



Structural component only
DWG# T-2007883 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408312	T1	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Wed Apr 29 16:28:05 2020 Page 2
ID=DMCubINVR6TsIFoe31v6I zns11-U4HrAIfc708qCTsIN42EhbFPyL cJw0xXIMA7zLpgW

PLATES (table in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B TMWV-p	MT20	5.0	8.0	Edge	
C TTWW-m	MT20	8.0	9.0	Edge	
D TMWV-m	MT20	4.0	4.0		
E TMWV-w	MT20	2.0	4.0		
F TS-t	MT20	3.0	8.0		
G TMWV-t	MT20	4.0	4.0		
H TTWW-m	MT20	6.0	9.0	Edge	
I TMWV-p	MT20	5.0	8.0	Edge	
K BMV1-p	MT20	3.0	6.0		
L BMWV-t	MT20	5.0	6.0	2.50	2.75
M BMWV-t	MT20	5.0	8.0		
N BS-t	MT20	5.0	8.0		
O BMWV-t	MT20	5.0	8.0		
P BS-t	MT20	5.0	8.0		
Q BMWV-t	MT20	5.0	6.0		
R BMWV-t	MT20	5.0	8.0	2.50	2.75
S BMV1-p	MT20	3.0	6.0		

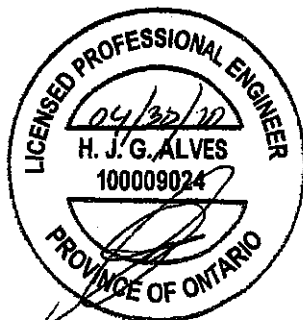
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	5-10-8	-546	-546	---	FRONT	VERT	TOTAL	---	C1
D	11-11-4	-178	-178	---	FRONT	VERT	TOTAL	---	C1
F	19-11-4	-178	-178	---	FRONT	VERT	TOTAL	---	C1
H	28-10-8	-546	-546	---	FRONT	VERT	TOTAL	---	C1
L	28-9-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
P	13-11-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1
Q	11-11-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1
R	5-11-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1
T	7-11-4	-178	-178	---	FRONT	VERT	TOTAL	---	C1
U	9-11-4	-178	-178	---	FRONT	VERT	TOTAL	---	C1
V	13-11-4	-178	-178	---	FRONT	VERT	TOTAL	---	C1
W	15-11-4	-178	-178	---	FRONT	VERT	TOTAL	---	C1
X	17-11-4	-178	-178	---	FRONT	VERT	TOTAL	---	C1
Y	21-11-4	-178	-178	---	FRONT	VERT	TOTAL	---	C1
Z	23-11-4	-178	-178	---	FRONT	VERT	TOTAL	---	C1
AA	25-11-4	-178	-178	---	FRONT	VERT	TOTAL	---	C1
AB	27-11-4	-181	-181	---	FRONT	VERT	TOTAL	---	C1
AC	2-0-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AD	4-0-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AE	7-11-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AF	9-11-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AG	15-11-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AH	17-11-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AI	19-11-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AJ	21-11-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AK	23-11-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AL	25-11-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AM	27-11-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AN	30-8-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AO	32-8-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

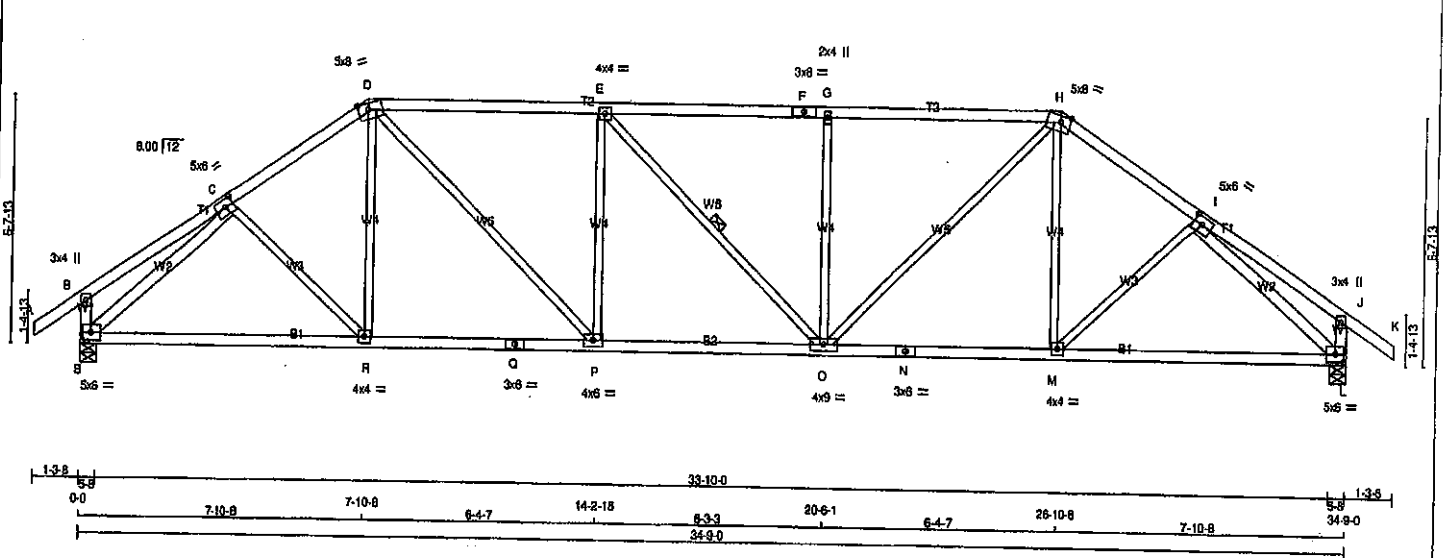
- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2007883

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408312	T2	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TstF0831v6L_zns11-zGrDN2fEmKGhqdD3xoatEpoovYIKi2H15mydwizZLogV
20-6-1 26-10-8 30-8-8 34-9-0 38-0-8 1-3-8
Scale = 1:57.0



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

PLATES (table in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMV+p	MT20	3.0	4.0	
C	TMWW-1	MT20	5.0	8.0	2.50 2.75
D	TTWW-m	MT20	5.0	8.0	2.00 3.25
E	TMWW-1	MT20	4.0	4.0	
F	TS-1	MT20	3.0	8.0	
G	TMW+w	MT20	2.0	4.0	
H	TTWW-m	MT20	5.0	8.0	2.00 3.25
I	TMWW-1	MT20	5.0	8.0	2.50 2.75
J	TMV+p	MT20	3.0	4.0	
L	BMVW-1	MT20	5.0	8.0	2.50 2.75
M	BMWW-1	MT20	4.0	4.0	
N	BS-1	MT20	3.0	6.0	
O	BMVWW-1	MT20	4.0	9.0	
P	BMWW-1	MT20	4.0	8.0	
Q	BS-1	MT20	3.0	6.0	
R	BMVW-1	MT20	4.0	4.0	
S	BMVW-1	MT20	5.0	8.0	2.50 2.75

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

BEARINGS					
	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REORD BRG	
JT	VERT	HORZ	DOWN	UPLIFT	IN-SX
S	2042	0	2042	0	5-8
L	2042	0	2042	0	5-8

UNFACTORED REACTIONS						
	1ST LOASE	MAX/MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
S	1441	959 / 0	0 / 0	0 / 0	0 / 0	482 / 0
L	1441	959 / 0	0 / 0	0 / 0	0 / 0	482 / 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 = 3.55 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8	0.12 (1)	10.00	C-R	0 / 70	0.02 (4)
B-C	0 / 22	-91.8 -91.8	0.21 (1)	10.00	R-D	0 / 128	0.04 (4)
C-D	-2254 / 0	-91.8 -91.8	0.99 (1)	4.28	D-P	0 / 1042	0.23 (1)
D-E	-2595 / 0	-91.8 -91.8	0.74 (1)	3.55	P-E	-829 / 0	0.46 (1)
E-F	-2593 / 0	-91.8 -91.8	0.73 (1)	3.55	E-O	-2 / 0	0.00 (1)
F-G	-2593 / 0	-91.8 -91.8	0.73 (1)	3.55	O-G	-828 / 0	0.46 (1)
G-H	-2593 / 0	-91.8 -91.8	0.73 (1)	3.55	O-H	0 / 1040	0.23 (1)
H-I	-2255 / 0	-91.8 -91.8	0.99 (1)	4.28	M-H	0 / 127	0.04 (4)
I-J	0 / 22	-91.8 -91.8	0.21 (1)	10.00	M-I	0 / 70	0.02 (4)
J-K	0 / 35	-91.8 -91.8	0.12 (1)	10.00	S-C	-2500 / 0	0.85 (1)
S-B	-267 / 0	0.0 0.0	0.03 (1)	7.81	I-L	-2500 / 0	0.85 (1)
L-J	-267 / 0	0.0 0.0	0.03 (1)	7.81			
S-R	0 / 1820	-18.5 -18.5	0.43 (1)	10.00			
R-Q	0 / 1858	-18.5 -18.5	0.44 (1)	10.00			
Q-P	0 / 1858	-18.5 -18.5	0.44 (1)	10.00			
P-O	0 / 2595	-18.5 -18.5	0.48 (1)	10.00			
O-N	0 / 1857	-18.5 -18.5	0.44 (1)	10.00			
N-M	0 / 1857	-18.5 -18.5	0.44 (1)	10.00			
M-L	0 / 1821	-18.5 -18.5	0.44 (1)	10.00			

TOTAL WEIGHT = 150 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 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 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 (1.18")
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")
ALLOWABLE DEFL.(TL) = L/360 (1.18")
CALCULATED VERT. DEFL.(TL) = L/999 (0.26")
CSI: TC=0.74/1.00 (D-E:1), BC=0.48/1.00 (O-P:1), WB=0.85/1.00 (I-L:1), SI=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

AUTOSOLVE HEELS OFF

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

NAIL VALUES					
PLATE	GRIP(DRY)	SHEAR	SECTION		
(PSI)	(PLI)	(PLI)			
	MAX	MIN	MAX	MIN	MAX
MT20	818	854	1867	788	1897

PLATE PLACEMENT TOL. = 0.250 inches

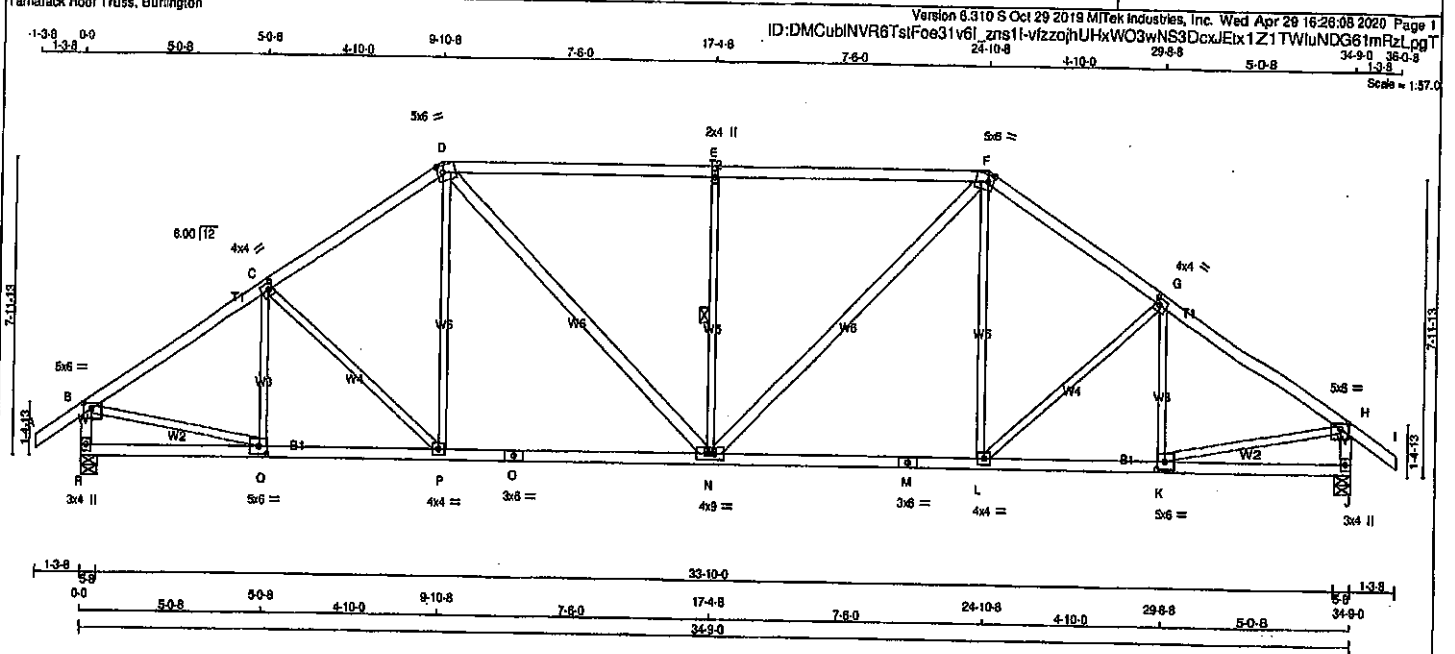
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (I) (INPUT = 0.80)
JSI METAL= 0.82 (I) (INPUT = 1.00)



Structural component only
DWG# T-2007884

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408312	T3	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	



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

DRY: SEASONED LUMBER.

PLATES (table in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-p	MT20	5.0	8.0	1.75 2.75
C	TMVW-l	MT20	4.0	4.0	2.00 1.50
D	TTWW-m	MT20	5.0	6.0	2.25 1.75
E	TMVW-w	MT20	2.0	4.0	
F	TTWW-m	MT20	5.0	6.0	2.25 1.75
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	BMV1-p	MT20	3.0	4.0	
K	BMVW-l	MT20	5.0	8.0	2.50 2.75
L	BMVW-l	MT20	4.0	4.0	
M	BS-l	MT20	3.0	6.0	
N	BMVW-w	MT20	4.0	4.0	
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 2.75
R	BMV1-p	MT20	3.0	4.0	

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

BEARINGS					
	FACTORED	MAXIMUM FACTORED	INPUT	RECORD	
	GROSS REACTION	GROSS REACTION	BRG	BRG	
JT	VERT	HORZ	UPLIFT	IN-SX	IN-SX
R	2042	0	2042	0	5-8
J	2042	0	2042	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
R	1441	959 / 0	0 / 0	0 / 0	0 / 0	482 / 0	0 / 0
J	1441	959 / 0	0 / 0	0 / 0	0 / 0	482 / 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 = 3.50 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	Q-C	-324 / 0	0.11 (1)
B-C	-2282 / 0	-91.8	-91.8 0.37 (1)	4.21	C-P	-207 / 0	0.17 (1)
C-D	-2160 / 0	-91.8	-91.8 0.35 (1)	4.32	P-D	0 / 258	0.08 (4)
D-E	-2258 / 0	-91.8	-91.8 0.80 (1)	3.50	D-N	0 / 692	0.11 (1)
E-F	-2258 / 0	-91.8	-91.8 0.80 (1)	3.50	N-E	-848 / 0	0.34 (1)
F-G	-2160 / 0	-91.8	-91.8 0.35 (1)	4.32	N-F	0 / 892	0.11 (1)
G-H	-2282 / 0	-91.8	-91.8 0.37 (1)	4.21	L-F	0 / 258	0.08 (4)
H-I	0 / 35	-91.8	-91.8 0.12 (1)	10.00	L-G	-207 / 0	0.17 (1)
R-B	-1999 / 0	0.0	0.0 0.21 (1)	5.87	K-G	-324 / 0	0.11 (1)
J-H	-1999 / 0	0.0	0.0 0.21 (1)	5.97	B-Q	0 / 1967	0.44 (1)
					K-H	0 / 1967	0.44 (1)
R-Q	0 / 0	-18.5	-18.5 0.10 (4)	10.00			
Q-P	0 / 1923	-18.5	-18.5 0.40 (1)	10.00			
P-O	0 / 1773	-18.5	-18.5 0.40 (1)	10.00			
O-N	0 / 1773	-18.5	-18.5 0.40 (1)	10.00			
N-M	0 / 1773	-18.5	-18.5 0.40 (1)	10.00			
M-L	0 / 1773	-18.5	-18.5 0.40 (1)	10.00			
L-K	0 / 1923	-18.5	-18.5 0.40 (1)	10.00			
K-J	0 / 0	-18.5	-18.5 0.10 (4)	10.00			

TOTAL WEIGHT = 158 lb (M/F)

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 26.8 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN/C/C

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

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

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

(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 (1.16")
CALCULATED VERT. DEFL.(LL) = L/999 (0.10")
ALLOWABLE DEFL.(TL) = L/360 (1.16")
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")

CSI: TC=0.80/1.00 (E-F:1), BC=0.40/1.00 (N-P:1), WB=0.44/1.00 (B-C:1), SS=0.33/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = -5.0 Deg.

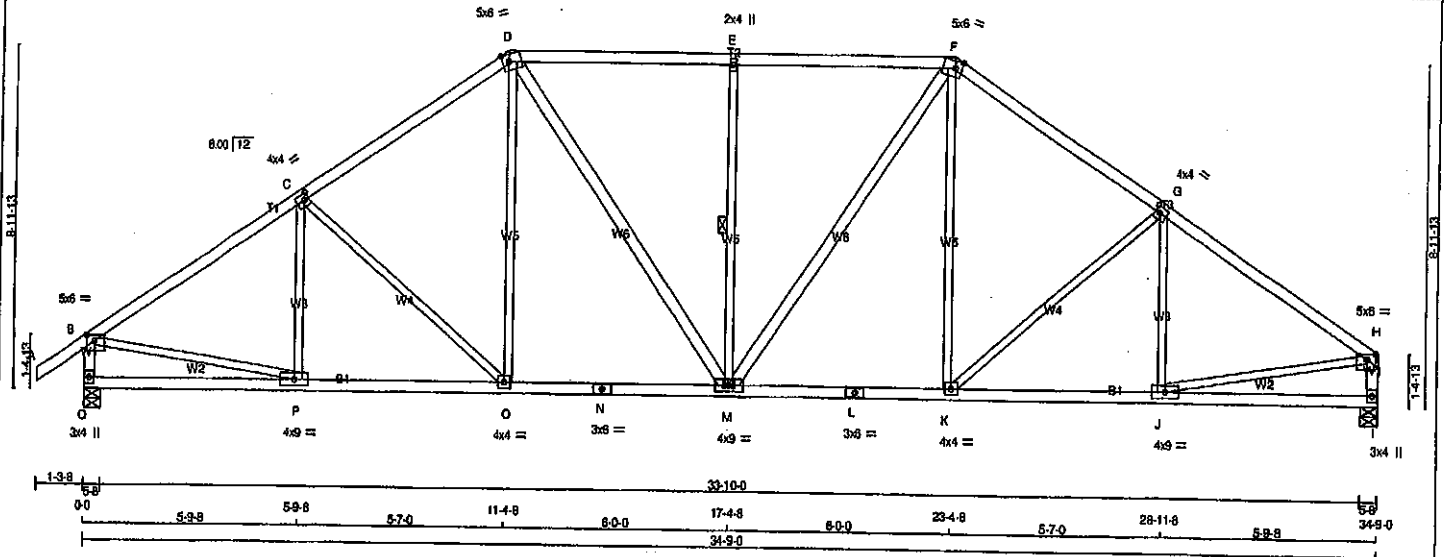
JSI GRIP = 0.83 (H) (INPUT = 0.90)
JSI METAL = 0.58 (C) (INPUT = 1.00)



Structural component only
DWG# T-2007885

JOB NAME 408312	TRUSS NAME T4	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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 ID:DMCubiNVR6TstF0931v6l_zns11-NrXM73i62FeH4yecw7AsRQBazN1F4XSWraJuzLpgS
 1-3-8 0-0 5-9-8 5-9-8 5-7-0 11-4-8 6-0-0 17-4-8 6-0-0 5-7-0 28-11-8 5-9-8 34-9-0
 1-3-8 0-0 5-9-8 5-9-8 5-7-0 11-4-8 6-0-0 17-4-8 6-0-0 23-4-8 5-7-0 28-11-8 5-9-8 34-9-0
 Scale = 1:55.8



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B TMVW-p	MT20	5.0	6.0	1.75	2.75
C TMVW-t	MT20	4.0	4.0	2.00	1.50
D TTWW-m	MT20	5.0	8.0	2.25	2.00
E TMVW-w	MT20	2.0	4.0		
F TTWW-m	MT20	6.0	6.0	2.25	2.00
G TMVW-t	MT20	4.0	4.0	2.00	1.50
H TMVW-p	MT20	5.0	6.0	1.75	2.75
I BMV1-p	MT20	3.0	4.0		
J BMVW-t	MT20	4.0	4.0		
K BMVW-t	MT20	4.0	4.0		
L BS-t	MT20	3.0	8.0		
M BMVW-w	MT20	4.0	9.0		
N BS-t	MT20	3.0	8.0		
O BMVW-t	MT20	4.0	4.0		
P BMVW-t	MT20	4.0	9.0		
Q BMV1-p	MT20	3.0	4.0		

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
JT	GROSS REACTION	VERT	HORZ	GROSS REACTION	DOWN	HORZ	UPLIFT	BRG	IN-SX
Q	2042	0	0	2042	0	0	5-8	5-8	5-8
I	1916	0	0	1916	0	0	5-8	5-8	5-8

UNFACTORED REACTIONS

1ST LOASE		MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
Q	1441	959 / 0	0 / 0	0 / 0	0 / 0	482 / 0	0 / 0		
I	1355	889 / 0	0 / 0	0 / 0	0 / 0	468 / 0	0 / 0		

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.04 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO	VERT. LOAD (PLF)	FR-TO	VERT. LOAD (PLF)
A-B	0 / 35	P-C	-251 / 9
B-C	-2312 / 0	C-O	-345 / 0
C-D	-2070 / 0	O-D	0 / 334
D-E	-1988 / 0	D-M	0 / 476
E-F	-1968 / 0	M-E	-674 / 0
F-G	-2070 / 0	M-F	0 / 476
G-H	-2312 / 0	K-F	0 / 334
H-I	-1988 / 0	K-G	-345 / 0
I-H	-1870 / 0	J-G	-251 / 9
		S-P	0 / 1988
		J-H	0 / 1988
Q-P	0 / 0		
P-O	0 / 1952		
O-N	0 / 1895		
N-M	0 / 1895		
M-L	0 / 1895		
L-K	0 / 1895		
K-J	0 / 1952		
J-I	0 / 0		

DESIGN CRITERIA

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

SPACING = 24.0 IN. G.C.

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.16")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
 ALLOWABLE DEFL.(TL) = L/360 (1.16")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

CSI: TC=0.50/1.00 (G-H-I), BC=0.38/1.00 (O-P-I), WB=0.45/1.00 (H-J-I), SS=0.27/1.00 (D-E-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) (PLI) (PLI)
 MAX MIN MAX MIN MAX MIN
 MT20 818 354 1887 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.86 (P) (INPUT = 0.90)
 JSI METAL = 0.55 (L) (INPUT = 1.00)



Structural component only
 DWG# T-2007886

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408312	T5	1	3	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Wed Apr 29 16:28:11 2020 Page 2
ID:DMCubINVR6TstFoe31v6l 2ns1HJEf6QilNasuzwO61kL9exsVZCm0BiclgvEKhNmzLpgQ

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVWm	MT20	6.0	12.0	2.50	5.25
C	TMWW-I	MT20	5.0	8.0	2.25	1.75
D	TS-I	MT20	3.0	6.0		
E	TMWW-I	MT20	4.0	6.0	2.00	2.00
F	TTWW-m	MT20	6.0	6.0	2.25	2.00
G	TMW+u	MT20	2.0	4.0		
H	TTWW-m	MT20	5.0	6.0	2.25	2.00
I	TMWW-I	MT20	4.0	6.0	2.00	2.00
J	TS-I	MT20	3.0	6.0		
K	TMWW-I	MT20	5.0	6.0	2.25	1.75
L	TMVWm	MT20	6.0	12.0	2.50	5.25
N	BMV1+p	MT20	6.0	12.0	Edge	1.25
O	BMWW+I	MT20	8.0	9.0	5.50	3.00
P, R, T, V						
P	BMWW-I	MT20	5.0	6.0		
Q	BS-I	MT20	6.0	9.0		
S	BMWWW-I	MT20	5.0	8.0		
U	BS-I	MT20	8.0	9.0		
W	BMWW+I	MT20	8.0	9.0	5.50	3.00
X	BMV1+p	MT20	6.0	12.0	7.25	

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

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
Z	33-8-4	-1155	-1155	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

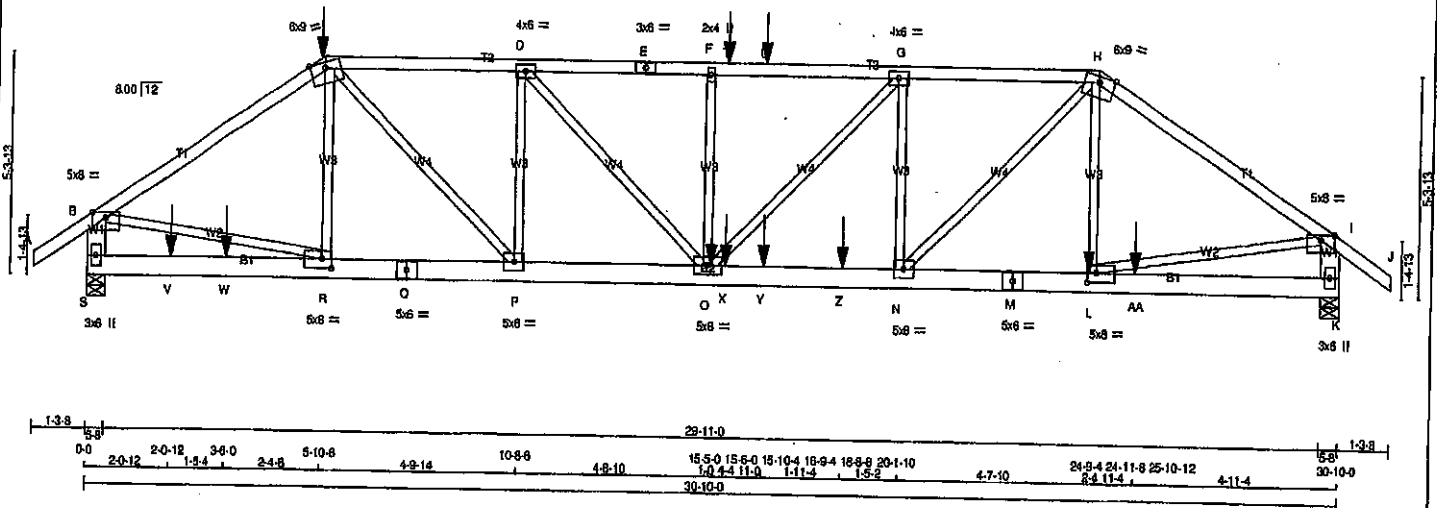
1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2007887 3/2

JOB NAME 408312	TRUSS NAME T6	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitak Industries, Inc. Wed Apr 29 16:28:12 2020 Page 1
 ID:DMCubINVR6T9tF0e31v61_zns1l-nQCUE5k7LA1qYYgD13gtU42e4AlvS1z8u4EvDzLpgP
 1-3.8 0-0 5-10.8 5-10.8 4-9.14 10-8.8 4-9.10 15-5.0 15-10.4 15-9.4 3-4.6 20-1.0 4-9.14 24-11.8 5-10.8 30-10.0 32-1.8 1-3.8
 Scale = 1:51.0



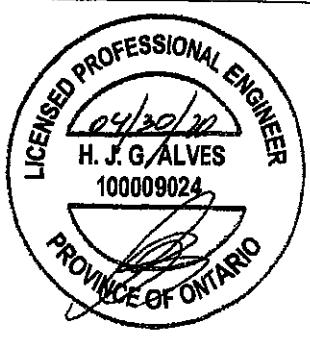
CHORDS	SIZE	DRY	LUMBER
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
E - H	2x4	DRY	No.2
H - J	2x4	DRY	No.2
K - S	2x6	DRY	No.2
S - Q	2x6	DRY	No.2
Q - M	2x6	DRY	No.2
M - K	2x6	DRY	No.2
ALL WEBS	2x3	DRY	No.2

EXCEPT
 DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C 1	12	SIDE(81.0)
C-E 1	12	SIDE(81.0)
E-H 1	12	SIDE(81.0)
H-J 1	12	SIDE(81.0)
K-S 2	12	TOP
S-Q 2	12	TOP
Q-M 2	12	TOP
M-K 2	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	6	SIDE(67.7)
F-O 1	6	SIDE(125.8)
L-H 1	6	SIDE(125.8)

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



Structural component only
 DWG# T-2007888

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	DOWN	HORIZ	BRG	BRG	IN-SX	IN-SX
S	4524	0	4524	0	0	5-8	5-8		
K	5309	0	5309	0	0	5-8	5-8		

UNFACTORED REACTIONS		MAX./MIN. COMPONENT REACTIONS					
JT	1ST LCASE COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
S	3188	2187 / 0	0 / 0	0 / 0	0 / 0	1019 / 0	0 / 0
K	3741	2530 / 0	0 / 0	0 / 0	0 / 0	1211 / 0	0 / 0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.13 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
 TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO		FR-TO		
A-B	0 / 35	-91.8	-91.8 0.07 (1)	10.00	R-C	0 / 219	0.03 (4)
B-C	-5414 / 0	-91.8	-91.8 0.59 (1)	3.74	C-P	0 / 2740	0.34 (1)
C-D	-8421 / 0	-91.8	-91.8 0.34 (1)	3.83	P-D	-2137 / 0	0.43 (1)
D-E	-8028 / 0	-91.8	-91.8 0.45 (1)	3.18	D-O	0 / 2328	0.29 (1)
E-F	-8028 / 0	-91.8	-91.8 0.45 (1)	3.18	O-F	-713 / 0	0.14 (1)
F-T	-8028 / 0	-91.8	-91.8 0.49 (1)	3.13	O-G	0 / 715	0.09 (1)
T-U	-8028 / 0	-91.8	-91.8 0.49 (1)	3.13	N-G	-1081 / 0	0.22 (1)
U-G	-8028 / 0	-91.8	-91.8 0.49 (1)	3.13	N-H	0 / 2888	0.33 (1)
G-H	-7535 / 0	-91.8	-91.8 0.49 (1)	3.25	L-H	0 / 1404	0.17 (1)
H-I	-6785 / 0	-91.8	-91.8 0.74 (1)	3.30	B-R	0 / 4582	0.56 (1)
I-J	0 / 35	0.0	0.0 0.15 (1)	10.00	L-I	0 / 5717	0.71 (1)
S-B	-4156 / 0	0.0	0.0 0.17 (1)	7.00			
K-I	-5108 / 0	0.0	0.0 0.18 (1)	6.45			
S-V	0 / 0	-18.5	-18.5 0.41 (1)	10.00			
V-W	0 / 0	-18.5	-18.5 0.41 (1)	10.00			
W-R	0 / 0	-18.5	-18.5 0.41 (1)	10.00			
R-Q	0 / 4504	-18.5	-18.5 0.53 (1)	10.00			
Q-P	0 / 4504	-18.5	-18.5 0.53 (1)	10.00			
P-O	0 / 6421	-18.5	-18.5 0.50 (1)	10.00			
O-X	0 / 7635	-18.5	-18.5 0.82 (1)	10.00			
X-Y	0 / 7635	-18.5	-18.5 0.82 (1)	10.00			
Y-Z	0 / 7635	-18.5	-18.5 0.82 (1)	10.00			
Z-N	0 / 7635	-18.5	-18.5 0.82 (1)	10.00			
N-M	0 / 5688	-18.5	-18.5 0.50 (1)	10.00			
M-L	0 / 5688	-18.5	-18.5 0.50 (1)	10.00			
L-AA	0 / 0	-18.5	-18.5 0.28 (1)	10.00			
AA-K	0 / 0	-18.5	-18.5 0.28 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)		FACE		DIR.		TYPE		HEEL		CONN.	
JT	LOC.	LC1	MAX.	MAX.	FACE	VERT	TOTAL	HEEL	CONN.		
C	5-10-8	-361	-361	---	BACK	VERT	TOTAL	---	---	C1	
L	24-9-4	-1184	-1184	---	BACK	VERT	TOTAL	---	---	C1	
O	15-6-0	-361	-361	---	BACK	VERT	TOTAL	---	---	C1	
T	15-10-4	-178	-178	---	BACK	VERT	TOTAL	---	---	C1	
U	18-9-4	-178	-178	---	BACK	VERT	TOTAL	---	---	C1	
V	2-0-12	-36	-36	---	BACK	VERT	TOTAL	---	---	C1	
W	3-6-0	-361	-361	---	BACK	VERT	TOTAL	---	---	C1	
X	15-10-4	-36	-36	---	BACK	VERT	TOTAL	---	---	C1	
Y	18-9-4	-36	-36	---	BACK	VERT	TOTAL	---	---	C1	
Z	18-8-8	-1067	-1067	---	BACK	VERT	TOTAL	---	---	C1	
AA	25-10-12	-1184	-1184	---	BACK	VERT	TOTAL	---	---	C1	

TOTAL WEIGHT = 2 X 148 = 296 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.03")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.19")
 ALLOWABLE DEFL.(TL) = L/600 (1.03")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.34")

CS1: TC=0.74/1.00 (H:1), BC=0.82/1.00 (N:0.1), WB=0.71/1.00 (L:1), SS=0.38/1.00 (K:L:1).

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE KEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (E) (INPUT = 0.90)
 JSI METAL = 0.82 (C) (INPUT = 1.00)

JOB NAME 408312	TRUSS NAME T6	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 8 Oct 29 2019 MiTek Industries, Inc. Wed Apr 29 16:28:12 2020 Page 2
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PLATES (table is in inches)

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

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

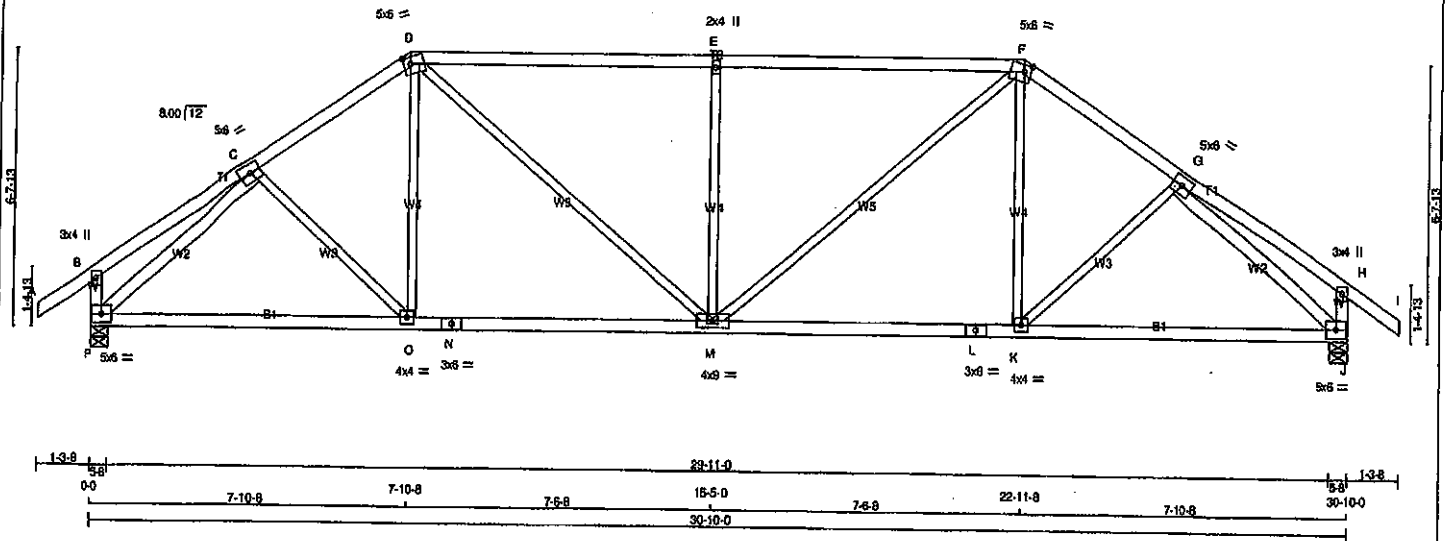
CONNECTION REQUIREMENTS

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



Structural component only
DWG# T-2007888 3/2

JOB NAME 408312	TRUSS NAME T7	QUANTITY 1	PLV 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington						
Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Wed Apr 29 16:28:13 2020 Page 1 ID:DMCubINVR6TsIFoa31v6I_zns11-FdmsrRld8U9hAIFPmC60HbopakNBUQ7NXpnSizLpgO 22-11-8 30-10-0 32-1-8 Scale = 1:51.0						



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
P - B	2x4	DRY	No.2
J - H	2x4	DRY	No.2
P - N	2x4	DRY	No.2
N - L	2x4	DRY	No.2
L - J	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
P - C	2x4	DRY	No.2
G - J	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMV+p	MT20	3.0	4.0	
C TMWV-t	MT20	5.0	8.0	
D TTWV-m	MT20	5.0	8.0	2.00 2.00
E TMW+w	MT20	2.0	4.0	
F TTWV-m	MT20	5.0	8.0	2.00 2.00
G TMWV-t	MT20	5.0	8.0	
H TMV+p	MT20	3.0	4.0	
J BMWV-t	MT20	5.0	8.0	
K BMWV-t	MT20	4.0	4.0	
L BS-t	MT20	3.0	8.0	
M BMWV-t	MT20	4.0	8.0	
N BS-t	MT20	3.0	8.0	
O BMWV-t	MT20	4.0	4.0	
P BMWV-t	MT20	5.0	8.0	

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	BRG	BRG	
P	1828 0	1828 0	0 0	5-8	5-8
J	1828 0	1828 0	0 0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
P	1289	859/0	0/0	0/0	430/0	0/0
J	1289	859/0	0/0	0/0	430/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.55 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0/35	-91.8	-91.8 0.12 (1)	10.00	C-O	-8/52	0.02 (4)
B-C	0/22	-91.8	-91.8 0.22 (1)	10.00	D-O	0/170	0.05 (4)
C-D	-1934/0	-91.8	-91.8 0.21 (1)	4.88	D-M	0/758	0.17 (1)
D-E	-2169/0	-91.8	-91.8 0.80 (1)	3.55	M-E	-852/0	0.82 (1)
E-F	-2169/0	-91.8	-91.8 0.80 (1)	3.55	M-F	0/758	0.17 (1)
F-G	-1934/0	-91.8	-91.8 0.21 (1)	4.88	K-F	0/170	0.05 (4)
G-H	0/22	-91.8	-91.8 0.22 (1)	10.00	K-G	-8/52	0.02 (4)
H-I	0/35	-91.8	-91.8 0.12 (1)	10.00	P-C	-2188/0	0.74 (1)
P-B	-268/0	0.0	0.0 0.03 (1)	7.81	G-J	-2188/0	0.74 (1)
J-H	-268/0	0.0	0.0 0.03 (1)	7.81			
P-O	0/1593	-18.5	-18.5 0.41 (1)	10.00			
O-N	0/1591	-18.5	-18.5 0.42 (4)	10.00			
N-M	0/1591	-18.5	-18.5 0.42 (4)	10.00			
M-L	0/1591	-18.5	-18.5 0.42 (4)	10.00			
L-K	0/1591	-18.5	-18.5 0.42 (4)	10.00			
K-J	0/1593	-18.5	-18.5 0.41 (1)	10.00			

TOTAL WEIGHT = 130 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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, NBCO 2010, NBCO 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCO 2010, OBC 2012, ABC 2018
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.03")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.09")
ALLOWABLE DEFL.(TL) = L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = 1/999 (0.17")

CSK TC=0.80/1.00 (E-F:1), BC=0.42/1.00 (K-M:4), WB=0.74/1.00 (C-P:1), SS=0.34/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE KEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

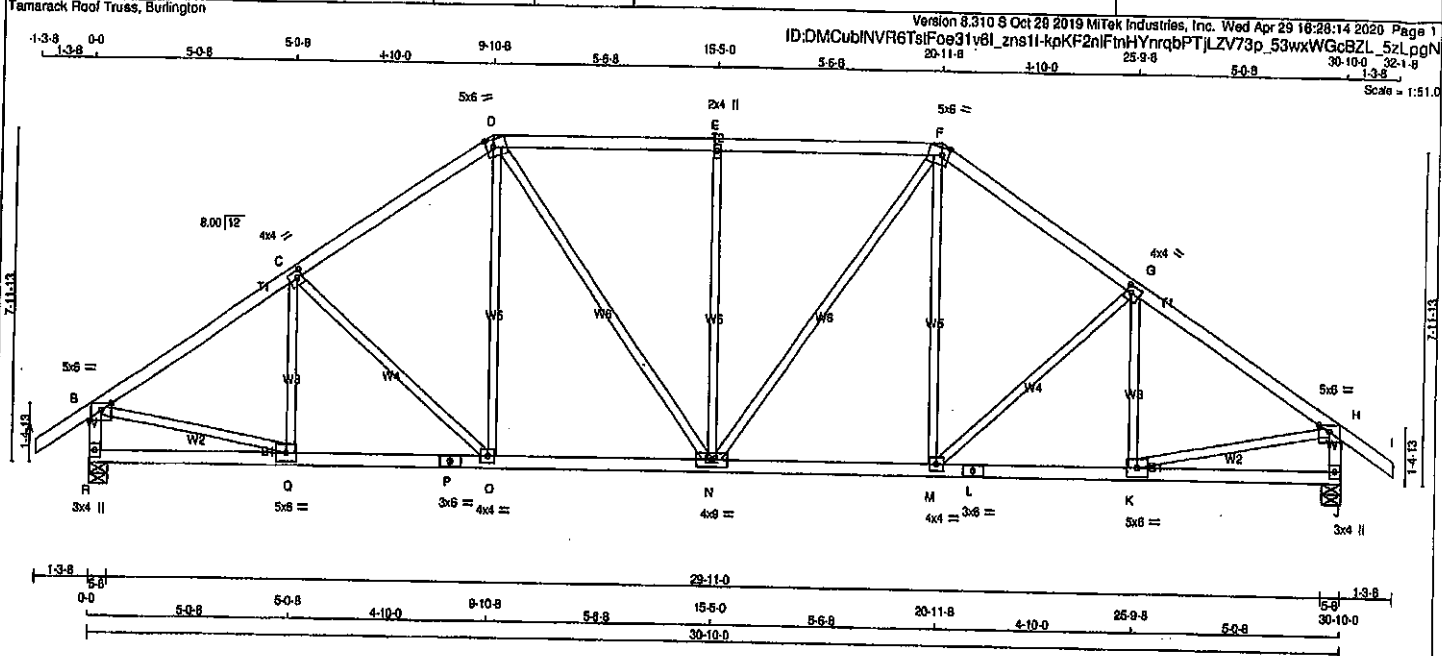
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (G) (INPUT = 0.90)
JSI METAL= 0.58 (L) (INPUT = 1.00)



Structural component only
DWG# T-2007889

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408312	T8	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	



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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMWV-p	MT20	5.0	8.0	Edge
C	TMWV-1	MT20	4.0	4.0	2.00 1.50
D	TTWW-m	MT20	5.0	8.0	2.25 2.00
E	TMV-w	MT20	2.0	4.0	
F	TTWW-m	MT20	5.0	8.0	2.25 2.00
G	TMWV-1	MT20	4.0	4.0	2.00 1.50
H	TMWV-p	MT20	5.0	8.0	Edge
I	BMV1+p	MT20	3.0	4.0	
J	BMWV-1	MT20	5.0	8.0	
K	BS-1	MT20	3.0	6.0	
L	BMWV-1	MT20	4.0	4.0	
M	BMWV-1	MT20	4.0	4.0	
N	BMWV-1	MT20	4.0	4.0	
O	BMWV-1	MT20	4.0	4.0	
P	BS-1	MT20	3.0	6.0	
Q	BMWV-1	MT20	5.0	8.0	
R	BMV1+p	MT20	3.0	4.0	

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQ'D	
JT	GROSS REACTION	VERT	HORZ	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
R	1828	0	1828	0	0	5-8	5-8		
J	1828	0	1828	0	0	5-8	5-8		

UNFACTORED REACTIONS		1ST LOASE		MAX/MIN COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERMATIVE	WIND
R	1289	859 / 0	0 / 0	0 / 0	0 / 0
J	1289	859 / 0	0 / 0	0 / 0	0 / 0

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

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

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

LOADING		TOTAL LOAD CASES: (4)	
CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0 / 35	A-B	-254 / 0
B-C	-1990 / 0	B-C	-258 / 0
C-D	-1822 / 0	C-D	0 / 271
D-E	-1752 / 0	D-E	0 / 445
E-F	-1752 / 0	E-F	-621 / 0
F-G	-1822 / 0	F-G	0 / 445
G-H	-1990 / 0	G-H	0 / 271
H-I	0 / 35	H-I	-258 / 0
R-B	-1785 / 0	R-B	-284 / 0
J-H	-1785 / 0	J-H	0 / 1718
R-Q	0 / 0	R-Q	0 / 1718
Q-P	0 / 1680	Q-P	0 / 1718
P-O	0 / 1680	P-O	0 / 1718
O-N	0 / 1492	O-N	0 / 1718
N-M	0 / 1492	N-M	0 / 1718
M-L	0 / 1680	M-L	0 / 1718
L-K	0 / 1680	L-K	0 / 1718
K-J	0 / 0	K-J	0 / 1718

TOTAL WEIGHT = 139 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

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, NBCO 2010, NBCO 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

(85% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.40/1.00 (D-E:1), BC=0.39/1.00 (K-M:1), WB=0.75/1.00 (E-N: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.

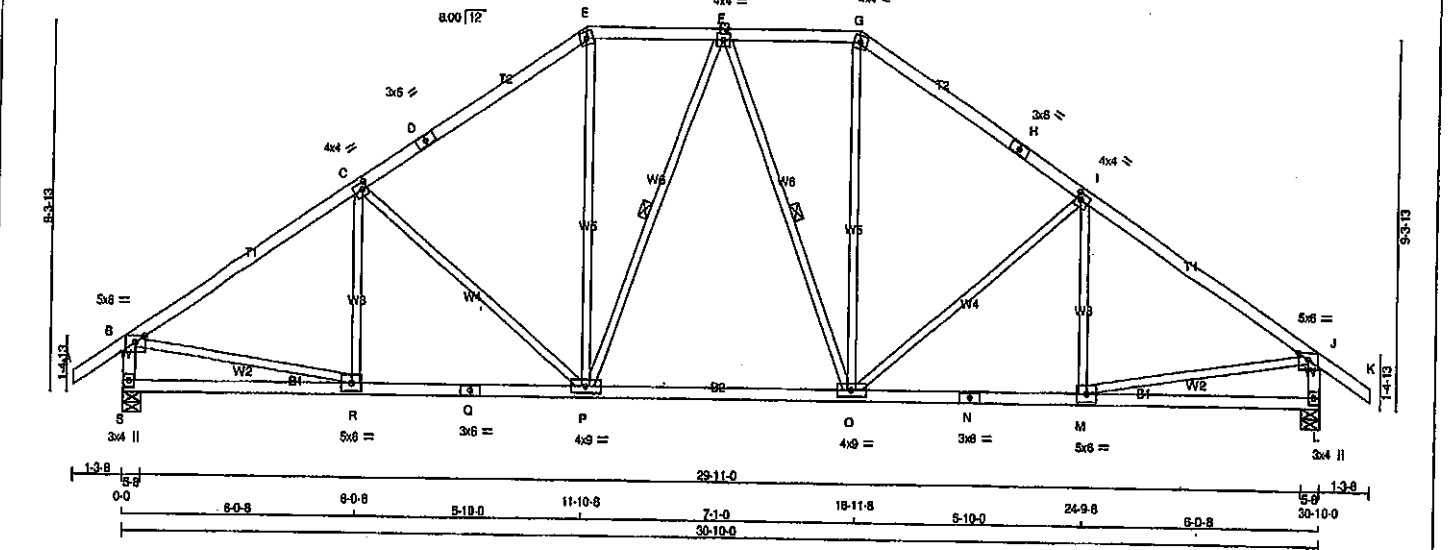
NAIL VALUES	
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLJ) (PLJ)	
MAX MIN MAX MIN MAX MIN	
MT20	818 354 1667 768 1987 1668
PLATE PLACEMENT TOL. = 0.250 inches	
PLATE ROTATION TOL. = 5.0 Deg.	
JSI GRIP = 0.88 (B) (INPUT = 0.90)	
JSI METAL = 0.48 (L) (INPUT = 1.00)	



Structural component only
DWG# T-2007890

JOB NAME 408312	TRUSS NAME T9	QUANTITY 7	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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 ID:DMCubINVR6TstFoe31v6l_zns11-gCS7ITnVPPXG19_XulpewCNVnm?OuOZ3V2S2_zLpgL
 Scale = 1:50.4



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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-p	MT20	5.0	6.0	Edge
C	TMVW-w	MT20	4.0	4.0	2.00 1.50
D	TS-1	MT20	3.0	6.0	
E	TTW-m	MT20	4.0	4.0	
F	TTW-w	MT20	4.0	4.0	
G	TTW-m	MT20	4.0	4.0	
H	TS-1	MT20	3.0	6.0	
I	TMVW-w	MT20	4.0	4.0	2.00 1.50
J	TMVW-p	MT20	5.0	6.0	Edge
L	BMV1-p	MT20	3.0	4.0	
M	BMVW-w	MT20	5.0	6.0	
N	BS-1	MT20	3.0	6.0	
O	BMVW-w	MT20	4.0	4.0	
P	BMVW-w	MT20	4.0	4.0	
Q	BS-1	MT20	3.0	6.0	
R	BMVW-w	MT20	5.0	6.0	
S	BMV1-p	MT20	3.0	4.0	

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



Structural component only
 DWG# T-2007891

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
S	1826	0	1826	0	0	5-8
L	1826	0	1826	0	0	5-8

UNFACTORED REACTIONS						
	1ST LOSE	MAX/MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
S	1289	859 / 0	0 / 0	0 / 0	439 / 0	0 / 0
L	1289	859 / 0	0 / 0	0 / 0	439 / 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 = 4.24 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-P, F-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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	R-C	-187 / 32	0.08 (1)
B-C	-2011 / 0	-91.8	-91.8 0.52 (1)	4.24	C-P	-428 / 0	0.54 (1)
C-D	-1698 / 0	-91.8	-91.8 0.48 (1)	4.58	P-E	0 / 590	0.13 (1)
D-E	-1698 / 0	-91.8	-91.8 0.48 (1)	4.58	F-F	-205 / 0	0.14 (1)
E-F	-1387 / 0	-91.8	-91.8 0.18 (1)	5.38	F-O	-205 / 0	0.14 (1)
F-G	-1387 / 0	-91.8	-91.8 0.15 (1)	5.38	O-G	0 / 590	0.13 (1)
G-H	-1698 / 0	-91.8	-91.8 0.48 (1)	4.58	H-I	-428 / 0	0.54 (1)
H-I	-1698 / 0	-91.8	-91.8 0.48 (1)	4.58	I-J	-187 / 32	0.08 (1)
I-J	-2011 / 0	-91.8	-91.8 0.52 (1)	4.24	B-R	0 / 1730	0.39 (1)
J-K	0 / 35	-91.8	-91.8 0.12 (1)	10.00	M-J	0 / 1730	0.39 (1)
S-B	-1778 / 0	0.0	0.0 0.18 (1)	6.26			
L-J	-1778 / 0	0.0	0.0 0.18 (1)	6.26			
S-R	0 / 0	-18.5	-18.5 0.14 (4)	10.00			
R-Q	0 / 1703	-18.5	-18.5 0.36 (1)	10.00			
Q-P	0 / 1703	-18.5	-18.5 0.36 (1)	10.00			
P-O	0 / 1480	-18.5	-18.5 0.32 (1)	10.00			
O-N	0 / 1703	-18.5	-18.5 0.36 (1)	10.00			
N-M	0 / 1703	-18.5	-18.5 0.36 (1)	10.00			
M-L	0 / 0	-18.5	-18.5 0.14 (4)	10.00			

TOTAL WEIGHT = 7 X 141 = 988 lb

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 25.6 PSF
 DL = 6.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.4 PSF
 TOTAL LOAD = 38.0 PSF

SPACING = 24.0 IN. OC

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.03")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
 ALLOWABLE DEFL.(TL) = L/360 (1.03")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

CSI: TC=0.52/1.00 (I-J:1), BC=0.38/1.00 (M-O:1), WB=0.54/1.00 (I-D:1), SSI=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

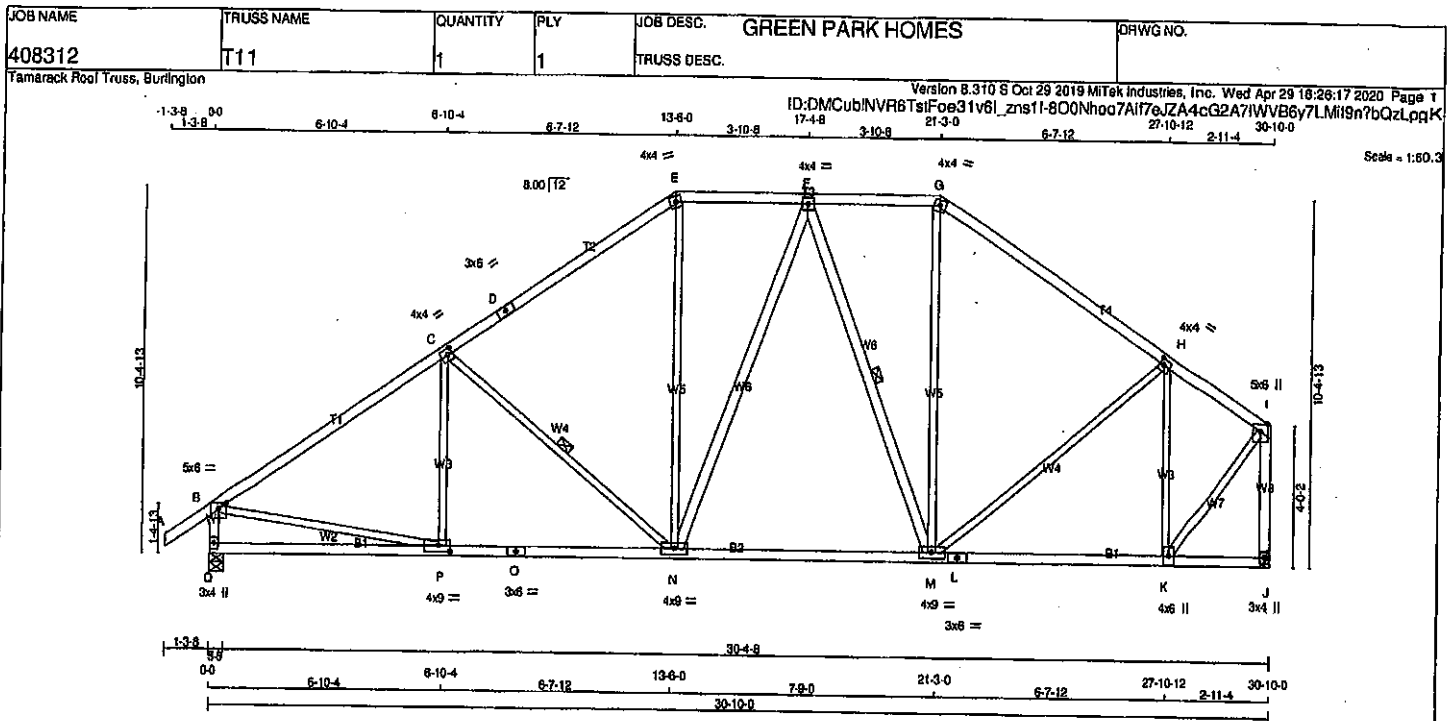
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (J) (INPUT = 0.90)
 JSI METAL = 0.54 (N) (INPUT = 1.00)



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 - I	2x4	DRY	No.2		SPF
Q - B	2x4	DRY	No.2		SPF
J - I	2x4	DRY	No.2		SPF
Q - O	2x4	DRY	No.2		SPF
O - L	2x4	DRY	No.2		SPF
L - J	2x4	DRY	No.2		SPF
ALL WEBS	2x3	DRY	No.2		SPF
EXCEPT					
N - F	2x4	DRY	No.2		SPF
F - M	2x4	DRY	No.2		SPF

DRY: SEASONED LUMBER.

PLATES (Table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	Edge	
C	TMVW-t	MT20	4.0	4.0	2.00	1.50
D	TS-t	MT20	3.0	6.0		
E	TTW-m	MT20	4.0	4.0		
F	TMVW-t	MT20	4.0	4.0		
G	TTW-m	MT20	4.0	4.0		
H	TMVW-t	MT20	4.0	4.0	2.00	1.50
I	TMVW-p	MT20	5.0	6.0	Edge	
J	BMV1-p	MT20	3.0	4.0		
K	BMVW-t	MT20	4.0	6.0		
L	BS-t	MT20	3.0	6.0		
M	BMVW-t	MT20	4.0	9.0		
N	BMVW-t	MT20	4.0	9.0		
O	BS-t	MT20	3.0	6.0		
P	BMVW-t	MT20	4.0	9.0	2.00	4.00
Q	BMV1-p	MT20	3.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
Q	VERT 1828	DOWN 1828	0	5-8
J	HORIZ 1700	HORIZ 1700	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
Q	1289	859 / 0	0 / 0	0 / 0	0 / 0	430 / 0	0 / 0	0 / 0
J	1202	789 / 0	0 / 0	0 / 0	0 / 0	413 / 0	0 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.99 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.09 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	
FR-TO		FROM TO	CSI (LC)	UNBRAC LENGTH	FR-TO				
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	P-C	-133 / 65	0.07 (1)	
B-C	-2010 / 0	-91.8	-91.8	0.89 (1)	3.89	C-N	-558 / 0	0.30 (1)	
C-D	-1584 / 0	-91.8	-91.8	0.62 (1)	4.47	N-E	0 / 487	0.11 (1)	
D-E	-1584 / 0	-91.8	-91.8	0.62 (1)	4.47	N-F	0 / 37	0.01 (4)	
E-F	-1288 / 0	-91.8	-91.8	0.18 (1)	5.50	F-M	-458 / 0	0.29 (1)	
F-G	-1125 / 0	-91.8	-91.8	0.18 (1)	5.79	M-G	0 / 360	0.09 (1)	
G-H	-1381 / 0	-91.8	-91.8	0.54 (1)	4.87	M-H	0 / 325	0.07 (1)	
H-I	-979 / 0	-91.8	-91.8	0.40 (1)	5.76	K-H	-999 / 0	0.59 (1)	
Q-B	-1773 / 0	0.0	0.0	0.18 (1)	6.27	B-P	0 / 1728	0.39 (1)	
J-I	-1687 / 0	0.0	0.0	0.45 (1)	6.39	K-I	0 / 1401	0.32 (1)	
Q-P	0 / 0	-18.5	-18.5	0.20 (4)	10.00				
P-O	0 / 1707	-18.5	-18.5	0.38 (1)	10.00				
O-N	0 / 1707	-18.5	-18.5	0.38 (1)	10.00				
N-M	0 / 1288	-18.5	-18.5	0.32 (1)	10.00				
M-L	0 / 873	-18.5	-18.5	0.28 (4)	10.00				
L-K	0 / 873	-18.5	-18.5	0.28 (4)	10.00				
K-J	0 / 0	-18.5	-18.5	0.11 (4)	10.00				

TOTAL WEIGHT = 154 lb (M/F)

DESIGN CRITERIA

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.03")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL) = L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.89/1.00 (B-C:1), BC=0.38/1.00 (N-P:1), WS=0.56/1.00 (H-K:1), SS=0.25/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 789 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (H) (INPUT = 0.90)
JSI METAL = 0.53 (C) (INPUT = 1.00)

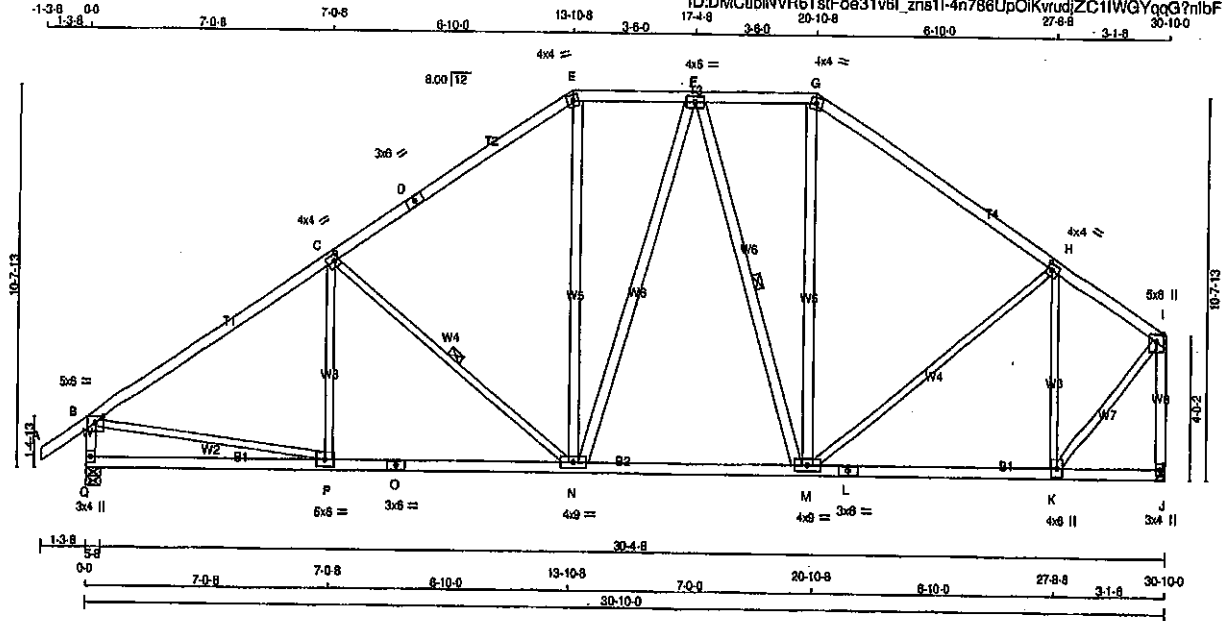


Structural component only
DWG# T-2007892

JOB NAME 408312	TRUSS NAME T12	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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Scale = 1/8"=1'-0"

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

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	TMWV-t	MT20	4.0	4.0	2.00	1.50
D	TS-t	MT20	3.0	6.0		
E	TTW-m	MT20	4.0	4.0		
F	TMWV-t	MT20	4.0	8.0		
G	TTW-m	MT20	4.0	4.0		
H	TMWV-t	MT20	4.0	4.0	2.00	1.50
I	TMWV-p	MT20	5.0	6.0	Edge	
J	BMV1+p	MT20	3.0	4.0		
K	BMWV-t	MT20	4.0	8.0		
L	BS-t	MT20	3.0	6.0		
M	BMWVW-t	MT20	4.0	9.0		
N	BMWVW-t	MT20	4.0	9.0		
O	BS-t	MT20	3.0	6.0		
P	BMWV-t	MT20	5.0	6.0		
Q	BMV1+p	MT20	3.0	4.0		

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	UP	BRG	BRG	IN-SX	IN-SX
Q	1828	0	1828	0	0	5-8	5-8		
J	1700	0	1700	0	0	MECHANICAL			

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	1289	859 / 0	0 / 0	0 / 0	0 / 0	430 / 0	0 / 0
J	1202	789 / 0	0 / 0	0 / 0	0 / 0	413 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.92 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 CSI (LC)
FR-TO		FROM	TO	FR-TO			
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	P-C	-118 / 76	0.07 (1)
B-C	-2009 / 0	-91.8	-91.8 0.74 (1)	3.92	C-N	-588 / 0	0.33 (1)
C-D	-1552 / 0	-91.8	-91.8 0.68 (1)	4.43	N-E	0 / 475	0.08 (1)
D-E	-1552 / 0	-91.8	-91.8 0.68 (1)	4.43	N-F	0 / 40	0.01 (4)
E-F	-1261 / 0	-91.8	-91.8 0.15 (1)	5.58	F-M	-427 / 0	0.28 (1)
F-G	-1121 / 0	-91.8	-91.8 0.15 (1)	5.83	M-G	0 / 362	0.08 (1)
G-H	-1375 / 0	-91.8	-91.8 0.57 (1)	4.82	M-H	0 / 277	0.08 (1)
H-I	-1018 / 0	-91.8	-91.8 0.42 (1)	5.63	K-H	-960 / 0	0.56 (1)
Q-B	-1772 / 0	0.0	0.0 0.18 (1)	8.27	B-P	0 / 1727	0.39 (1)
J-I	-1887 / 0	0.0	0.0 0.45 (1)	8.39	K-I	0 / 1398	0.31 (1)
Q-P	0 / 0	-18.5	-18.5 0.22 (4)	10.00			
P-O	0 / 1707	-18.5	-18.5 0.39 (1)	10.00			
O-N	0 / 1707	-18.5	-18.5 0.39 (1)	10.00			
N-M	0 / 1253	-18.5	-18.5 0.30 (1)	10.00			
M-L	0 / 803	-18.5	-18.5 0.28 (4)	10.00			
L-K	0 / 803	-18.5	-18.5 0.28 (4)	10.00			
K-J	0 / 0	-18.5	-18.5 0.13 (4)	10.00			

TOTAL WEIGHT = 2 X 183 = 326 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. O/C

LOADING IN PLAT 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 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.03")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.74/1.00 (B-C:1), BC=0.39/1.00 (N-P:1), WB=0.58/1.00 (H-K:1), SS=0.26/1.00 (B-C: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
(PS)	(PL)	(PL)	
MAX MIN	MAX MIN	MAX MIN	
MT20	618	354	1887
	788	1987	1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (B) (INPUT = 0.90)
JSI METAL= 0.52 (C) (INPUT = 1.00)

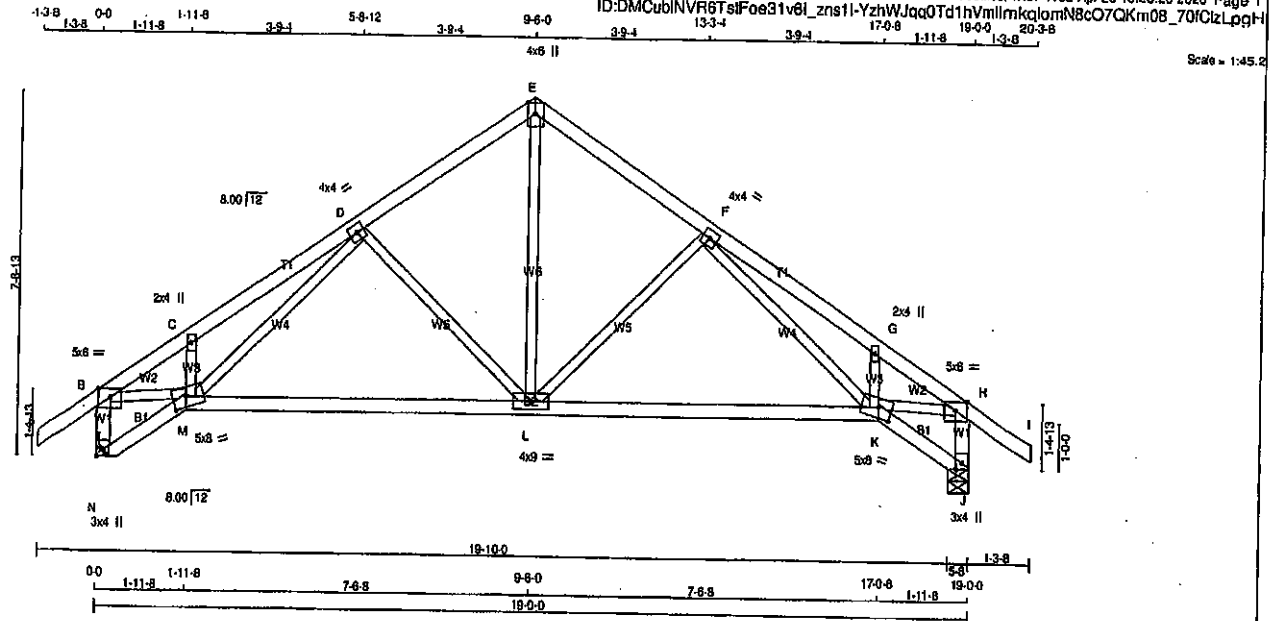


Structural component only
DWG# T-2007893

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408312	T13S	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:45.2

LUMBER				
N. L. G. A. RULES				
CHORDS		SIZE	LUMBER	DESCR
N - B	2x4	DRY	No.2	SPF
A - E	2x4	DRY	No.2	SPF
E - I	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
N - M	2x4	DRY	No.2	SPF
M - K	2x4	DRY	No.2	SPF
K - J	2x4	DRY	No.2	SPF
ALL WEBS			2x3	DRY
DRY: SEASONED LUMBER			No.2	SPF

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE	MT20	5.0	6.0	Edge
B TMVW-p	MT20	2.0	4.0	
C TMW-w	MT20	4.0	4.0	
D TMWV-p	MT20	4.0	6.0	Edge
E TTW-p	MT20	4.0	4.0	
F TMWV-p	MT20	2.0	4.0	
G TMW-w	MT20	5.0	6.0	Edge
H TMVW-p	MT20	3.0	4.0	Edge
J BMV1-p	MT20	5.0	8.0	2.75 3.50
K BBWVW-m	MT20	4.0	9.0	
L BBWVW-p	MT20	5.0	8.0	2.75 3.50
M BBWVW-m	MT20	3.0	4.0	Edge
N BMV1-p	MT20			

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
N	1173	0	1173	0	5-8	5-8
J	1173	0	1173	0	5-8	5-8

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

UNFACTORED REACTIONS

JT	1ST LOASE		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
N	827	558 / 0	0 / 0	0 / 0	0 / 0	271 / 0	0 / 0
J	827	558 / 0	0 / 0	0 / 0	0 / 0	271 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.04 FT.
MAX. UNSPRACED 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. CSI (LC)	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO				
N-B	-1155 / 0	0.0	0.0 0.12 (1)	7.40	L-E	0 / 781
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	L-F	-437 / 0
B-C	-1621 / 0	-91.8	-91.8 0.07 (1)	5.15	F-K	0 / 361
C-D	-1610 / 0	-91.8	-91.8 0.19 (1)	6.04	K-G	-232 / 0
D-E	-977 / 0	-91.8	-91.8 0.17 (1)	6.11	K-H	0 / 1353
E-F	-977 / 0	-91.8	-91.8 0.17 (1)	6.11	D-L	-437 / 0
F-G	-1610 / 0	-91.8	-91.8 0.19 (1)	5.04	M-D	0 / 361
G-H	-1621 / 0	-91.8	-91.8 0.07 (1)	5.15	M-C	-232 / 0
H-I	0 / 35	-91.8	-91.8 0.12 (1)	10.00	B-M	0 / 1353
J-H	-1155 / 0	0.0	0.0 0.12 (1)	7.40		
N-M	0 / 0	-18.5	-18.5 0.02 (4)	10.00		
M-L	0 / 1107	-18.5	-18.5 0.39 (4)	10.00		
L-K	0 / 1107	-18.5	-18.5 0.39 (4)	10.00		
K-J	0 / 0	-18.5	-18.5 0.02 (4)	10.00		

TOTAL WEIGHT = 2 X 81 = 163 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF 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) = $L/360$ (0.63")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.04")
ALLOWABLE DEFL.(TL) = $L/360$ (0.63")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.13")

CSI: TC=0.19/1.00 (C-D:1), BC=0.39/1.00 (K-L:4),
WB=0.30/1.00 (B-M:1), SS=0.14/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

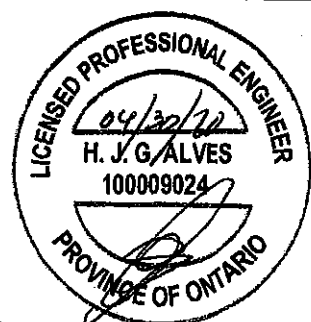
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

MAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 616 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.70 (L) (INPUT = 0.90)
JSI METAL= 0.97 (N) (INPUT = 1.00)

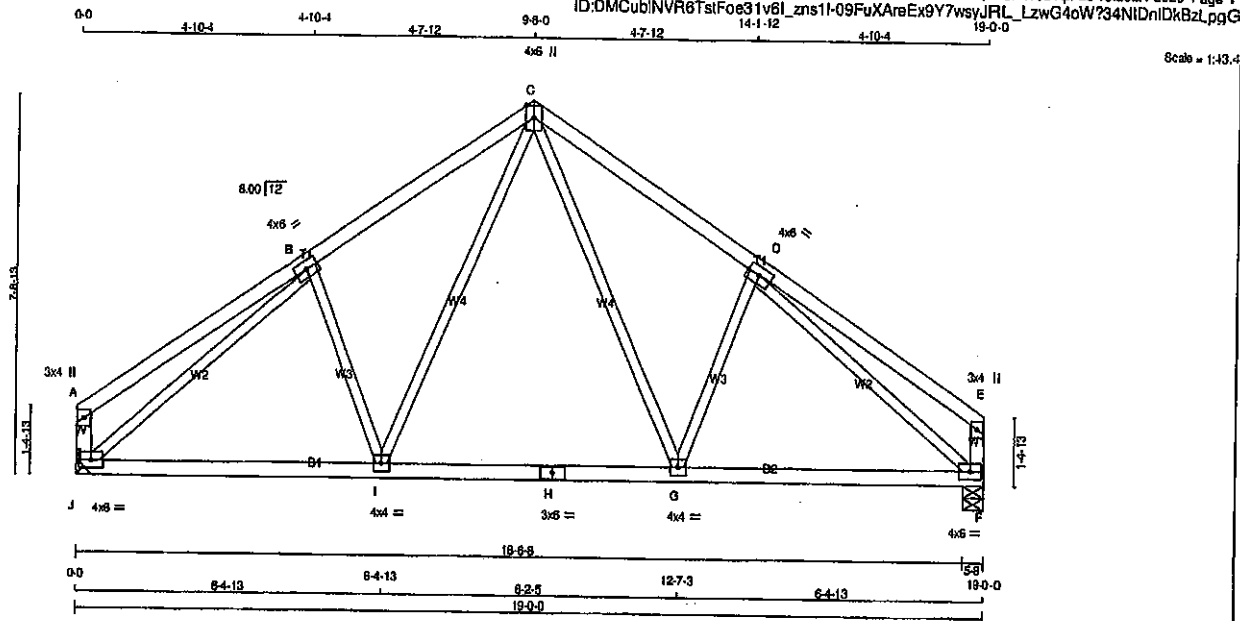


Structural component only
DWG# T-2007894

JOB NAME 408312	TRUSS NAME T14	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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

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

DRY: SEASONED LUMBER.

PLATES (table in inches)	JT TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	3.0	4.0		
B	TMWW-i	MT20	4.0	6.0		
C	TTWW+p	MT20	4.0	8.0	Edge	
D	TMWW-i	MT20	4.0	6.0		
E	TMV+p	MT20	3.0	4.0		
F	BMVW1-i	MT20	4.0	6.0		
G	BMVW-i	MT20	4.0	4.0		
H	BS-i	MT20	3.0	6.0		
I	BMVW-i	MT20	4.0	4.0		
J	BMVW1-i	MT20	4.0	6.0		

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
J	1047	0	1047	0
F	1047	0	1047	0

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

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL
J	741 486 / 0 0 / 0 0 / 0 255 / 0 0 / 0
F	741 486 / 0 0 / 0 0 / 0 255 / 0 0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.87 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	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD LC1 (LBS)	MAX. FACTORED VERT. LOAD LC2 (LBS)	MAX. FACTORED VERT. LOAD LC3 (LBS)	MAX. FACTORED VERT. LOAD LC4 (LBS)	MAX. FACTORED VERT. LOAD LC5 (LBS)	MAX. FACTORED VERT. LOAD LC6 (LBS)	MAX. FACTORED VERT. LOAD LC7 (LBS)	MAX. FACTORED VERT. LOAD LC8 (LBS)	MAX. FACTORED VERT. LOAD LC9 (LBS)	MAX. FACTORED VERT. LOAD LC10 (LBS)
FR-TO													
A-B	0 / 29	-91.8	-91.8	0.34 (1)	10.00	C-G	0 / 418	0.09 (1)					
B-C	-1024 / 0	-91.8	-91.8	0.27 (1)	5.87	G-D	-277 / 0	0.10 (1)					
C-D	-1024 / 0	-91.8	-91.8	0.27 (1)	5.87	D-E	0 / 418	0.09 (1)					
D-E	0 / 29	-91.8	-91.8	0.34 (1)	10.00	E-F	-277 / 0	0.10 (1)					
J-A	-165 / 0	0.0	0.0	0.02 (1)	7.81	F-G	-1249 / 0	0.87 (1)					
F-E	-165 / 0	0.0	0.0	0.02 (1)	7.81	G-H	-1249 / 0	0.87 (1)					
J-I	0 / 931	-18.5	-18.5	0.24 (4)	10.00	H-I	0 / 931	0.24 (4)					
I-H	0 / 931	-18.5	-18.5	0.24 (4)	10.00	H-G	0 / 931	0.24 (4)					
H-G	0 / 931	-18.5	-18.5	0.24 (4)	10.00	G-F	0 / 931	0.24 (4)					
G-F	0 / 931	-18.5	-18.5	0.24 (4)	10.00								

TOTAL WEIGHT = 80 lb (M/F)

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (0.83")
CALCULATED VERT. DEFL. (LL) = L/899 (0.03")
ALLOWABLE DEFL. (TL) = L/360 (0.83")
CALCULATED VERT. DEFL. (TL) = L/899 (0.07")

CSI: TO=0.34/1.00 (A-B:1), BC=0.24/1.00 (I-J:4), WB=0.87/1.00 (B-J:1), SSI=0.18/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRP(DRY) SHEAR SECTION
(PS) (PL) (PL)
MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1688

PLATE PLACEMENT TOL. = 0.250 inches

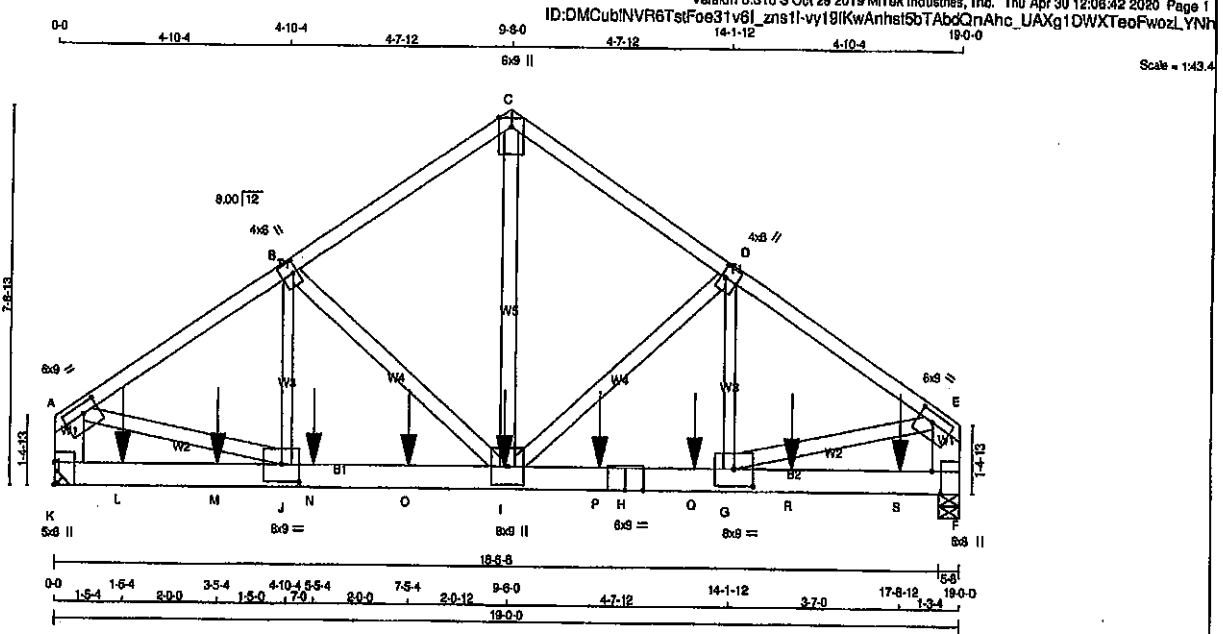
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (D) (INPUT = 0.90)
JSI METAL= 0.32 (D) (INPUT = 1.00)



Structural component only
DWG# T-2007895

JOB NAME 408312	TRUSS NAME T15	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.310 9 Oct 29 2019 MITek Industries, Inc. Thu Apr 30 12:08:42 2020 Page 1	



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
K - A	2x8	DRY	No.2
F - E	2x8	DRY	No.2
K - H	2x8	DRY	2100F 1.8E
H - F	2x8	DRY	2100F 1.8E
ALL WEBS	2x4	DRY	No.2
EXCEPT			
G - D	2x3	DRY	No.2
J - B	2x3	DRY	No.2

DRY, SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C	12	TOP
C - E	12	TOP
K - A	12	TOP
F - E	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
K - H	12	SIDE(197.8)
H - F	12	SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	8	SIDE(273.7)
1-C	8	
2x4	8	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF 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

FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
K 8890	0	8890	0	0	MECHANICAL	5-8	5-8
F 8091	0	8091	0	0	5-8	5-8	

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

UNFACTORED REACTIONS

1ST LCASE	MAX. MIN. COMPONENT REACTIONS						
JT COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
K 8275	4189 / 0	0 / 0	0 / 0	0 / 0	2068 / 0	0 / 0	
F 8412	4304 / 0	0 / 0	0 / 0	0 / 0	2108 / 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 = 2.67 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
PR-TO	FROM	FR-TO	LENGTH
A-B	-10082 / 0	I-C	0 / 8089
B-C	-7630 / 0	I-D	-2820 / 0
C-D	-7630 / 0	G-D	0 / 2888
D-E	-10185 / 0	B-I	-2804 / 0
K-A	-7518 / 0	J-B	0 / 2783
F-E	-7591 / 0	A-J	0 / 8580
		G-E	0 / 8667
K-L	0 / 0		
L-M	0 / 0		
M-J	0 / 0		
J-N	0 / 8405		
N-O	0 / 8405		
O-I	0 / 8405		
I-P	0 / 8490		
P-H	0 / 8490		
H-Q	0 / 8490		
Q-G	0 / 8490		
G-R	0 / 0		
R-S	0 / 0		
S-F	0 / 0		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
I	9-5-4	-1807	-1807	---	BACK	VERT	TOTAL	C1
L	1-5-4	-1881	-1881	---	BACK	VERT	TOTAL	C1
M	3-5-4	-1681	-1681	---	BACK	VERT	TOTAL	C1
N	5-5-4	-1681	-1681	---	BACK	VERT	TOTAL	C1
O	7-5-4	-1807	-1807	---	BACK	VERT	TOTAL	C1
P	11-5-4	-1807	-1807	---	BACK	VERT	TOTAL	C1
Q	13-5-4	-1807	-1807	---	BACK	VERT	TOTAL	C1
R	15-5-4	-1807	-1807	---	BACK	VERT	TOTAL	C1
S	17-8-12	-1807	-1807	---	BACK	VERT	TOTAL	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 103 = 205 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	=	38.0	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 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = $L/360$ (0.83")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.12")
ALLOWABLE DEFL.(TL) = $L/360$ (0.83")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.21")

CSI: $TC=0.72/1.00$ (D-E:1), $BC=0.57/1.00$ (G-I:1),
WB=0.77/1.00 (E-G:1), $SS=0.81/1.00$ (G-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN
M120	618 354	1887 788 1987 1858

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (A) (INPUT = 0.80)
JSI METAL = 0.91 (H) (INPUT = 1.00)



Structural component only
DWG# T-2007896 1/2

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408312	T15	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.310 8 Oct 29 2019 MITek Industries, Inc. Thu Apr 30 12:08:42 2020 Page 2
ID:DMCubiNVR6TstFo831v6I zns1I-vv19IKwAnhtSBtAbdQnAhc UAXq1DWXTepFwozL YNt

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-I	MT20	6.0	9.0	2.25	3.75
B	TMVW+I	MT20	4.0	8.0	3.00	1.00
C	TTW+p	MT20	6.0	9.0	Edge	
D	TMVW+I	MT20	4.0	6.0	3.00	1.00
E	TMVW-I	MT20	6.0	9.0	2.25	3.75
F	BMV1+I	MT20	5.0	6.0	Edge	2.25
G	BMVW-I	MT20	6.0	9.0	4.25	4.50
H	BS-I	MT20	6.0	6.0		
I	BMVW+I	MT20	8.0	8.0		
J	BMVW-I	MT20	8.0	8.0	4.25	4.50
K	BMV1+I	MT20	5.0	6.0	5.50	

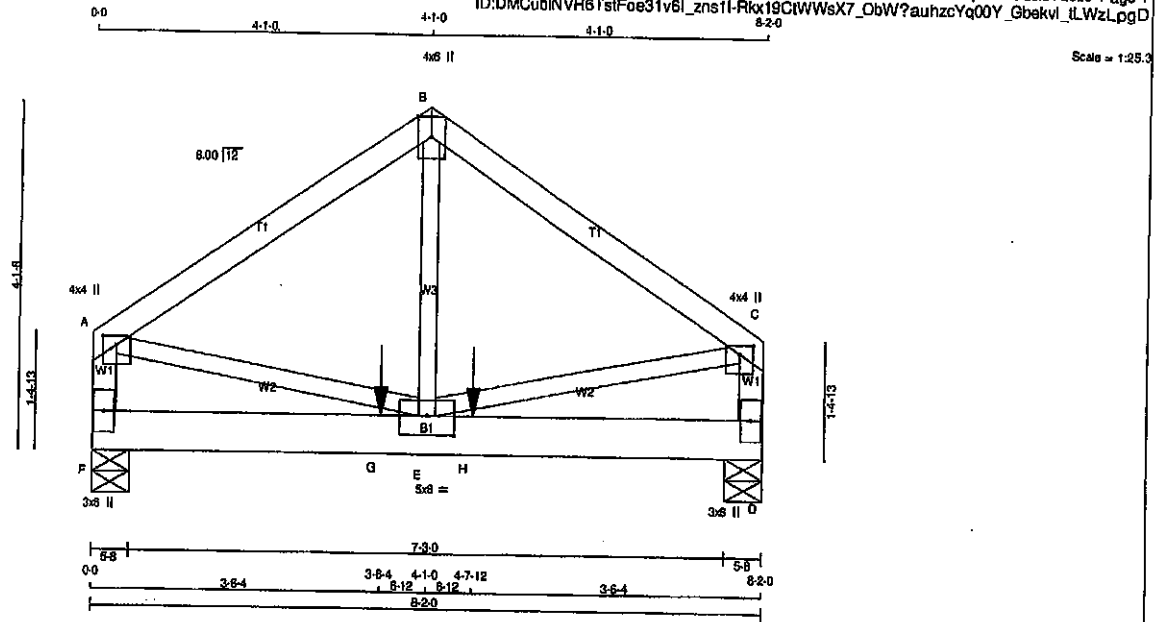
Edge - INDICATES REFERENCE CORNER OF PLATE
TOUCHES EDGE OF CHORD.



Structural component only
DWG# T-2007896 3/2

JOB NAME 408312	TRUSS NAME T16	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TstFoe31v6l_zns11-RKx19CtWWSX7_ObW?auhzcYq00Y_Gbakvl_tLWzLpgD



LUMBER			
N. L. G. A. RULES	SIZE	DRY	LUMBER
A - B	2x4	DRY	No.2
B - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
F - G	2x8	DRY	No.2
G - H	2x8	DRY	No.2
H - D	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-B 1	12	TOP
B-C 1	12	TOP
C-D 1	12	TOP
D-E 1	12	TOP
E-F 1	12	TOP
F-G 2	12	TOP
G-H 2	12	TOP
H-D 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F-G 2	12	SIDE (0.0)
G-H 2	12	SIDE (0.0)
H-D 2	12	SIDE (0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
W1 1	6	
W2 1	6	
W3 1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
A	TMVW+P	MT20	4.0	4.0	1.25	2.00
B	TTW+P	MT20	4.0	8.0	Edge	

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
F	1647	0	1647	0	5-8
D	1647	0	1647	0	5-8

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	1159	790 / 0	0 / 0	0 / 0	0 / 0	369 / 0	0 / 0
D	1159	791 / 0	0 / 0	0 / 0	0 / 0	369 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED			WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSl (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSl (LC)
FR-TO		FROM TO			FR-TO		
A-B	-1798 / 0	-91.8	-91.8	0.18 (1)	E-B	0 / 1820	0.20 (1)
B-C	-1798 / 0	-91.8	-91.8	0.18 (1)	A-E	0 / 1540	0.19 (1)
F-A	-1550 / 0	0.0	0.0	0.09 (1)	E-C	0 / 1540	0.19 (1)
D-C	-1550 / 0	0.0	0.0	0.09 (1)			
F-G	0 / 0	-18.5	-18.5	0.16 (1)			
G-E	0 / 0	-18.5	-18.5	0.16 (1)			
E-H	0 / 0	-18.5	-18.5	0.16 (1)			
H-D	0 / 0	-18.5	-18.5	0.16 (1)			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	3-6-4	-1196	-1196		BACK	VERT	TOTAL		C1
H	4-7-12	-1196	-1196		BACK	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 37 = 74 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL. (LL) = $L/380$ (0.27")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.01")
ALLOWABLE DEFL. (TL) = $L/380$ (0.27")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.02")

CS: TC=0.18/1.00 (B-C:1), BC=0.16/1.00 (D-E:1), WB=0.20/1.00 (B-E:1), SS=0.39/1.00 (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 (PS)	SECTION (PL)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 788

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL = 0.22 (A) (INPUT = 1.00)



Structural component only
DWG# T-2007897

CONTINUED ON PAGE 2

JOB NAME 408312	TRUSS NAME T16	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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 ID:DMCubINV6TstFoe31v8I zns1L-Rkx19CtWWsX7 ObW?auhzoYq00Y Gbekvi ILWzLqgD

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
C	TMVW+p	MT20	4.0	4.0	1.25	2.00
D	BMV1+p	MT20	3.0	6.0		
E	BMVWW+1	MT20	5.0	8.0	2.75	4.00
F	BMV1+p	MT20	3.0	8.0		

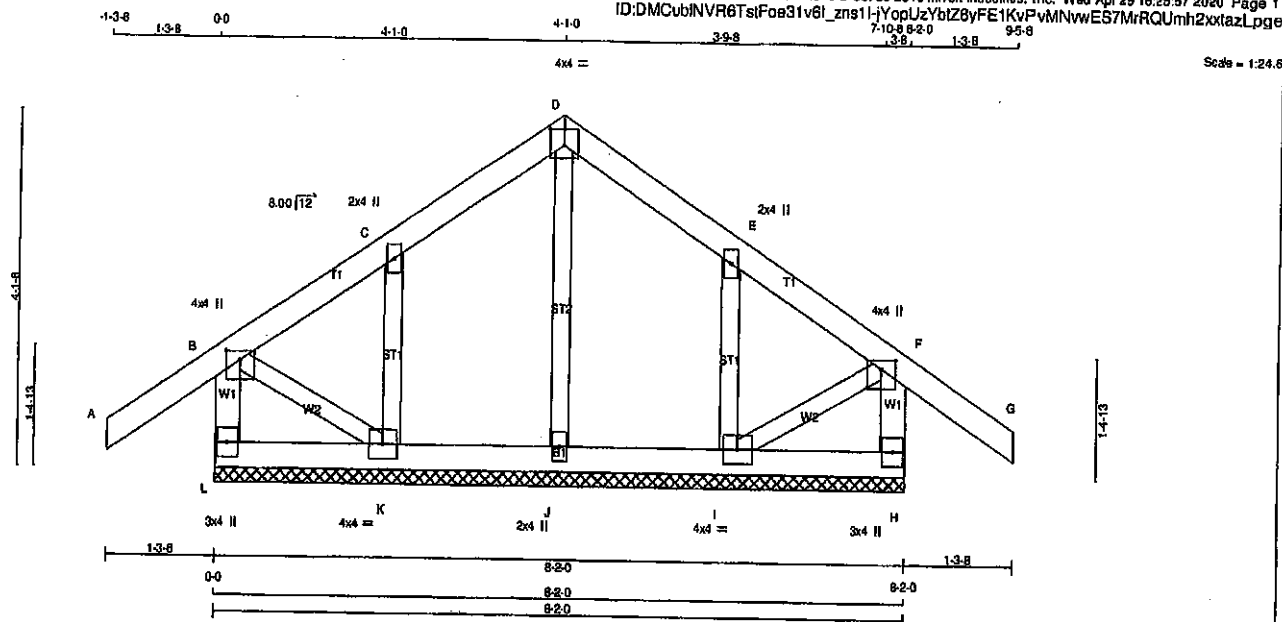
Edge - INDICATES REFERENCE CORNER OF PLATE
 TOUCHES EDGE OF CHORD.



Structural component only
 DWG# T-2007897 3/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408312	G17	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TstFoa31v6l_zns11-jYopUzYbtZ8yFE1KvPvMNwES7MrRQumh2xtazLpge
7-10-8 6-2-0 9-5-8 3-8 1-3-8



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

GABLE STUDS SPACED AT 2'-0" OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
C	TMVW+w	MT20	2.0	4.0		
D	TTW+p	MT20	4.0	4.0	2.25	2.00
E	TMVW+w	MT20	2.0	4.0		
F	TMVW+p	MT20	4.0	4.0	1.25	2.00
H	BMV1+p	MT20	3.0	4.0		
I	BMVW1-t	MT20	4.0	4.0		
J	BMV1+w	MT20	2.0	4.0		
K	BMVW1-t	MT20	4.0	4.0		
L	BMV1+p	MT20	3.0	4.0		

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)	
FR-TO		FROM TO	CSI (LC)	FR-TO		FROM TO	CSI (LC)
L-B	-216 / 0	0.0	0.0 0.02 (1)	J-D	-133 / 0	0.03 (1)	
A-B	0 / 35	-91.8	-91.8 0.12 (1)	K-G	-228 / 0	0.04 (1)	
B-C	-9 / 0	-91.8	-91.8 0.08 (1)	I-E	-228 / 0	0.04 (1)	
C-D	-25 / 0	-91.8	-91.8 0.08 (1)	B-K	0 / 20	0.00 (1)	
D-E	-25 / 0	-91.8	-91.8 0.08 (1)	I-F	0 / 20	0.00 (1)	
E-F	-9 / 0	-91.8	-91.8 0.12 (1)				
F-G	0 / 35	-91.8	-91.8 0.12 (1)				
H-F	-216 / 0	0.0	0.0 0.02 (1)				
L-K	0 / 0	-18.5	-18.5 0.02 (4)				
K-J	0 / 10	-18.5	-18.5 0.02 (4)				
J-I	0 / 10	-18.5	-18.5 0.02 (4)				
I-H	0 / 0	-18.5	-18.5 0.02 (4)				

TOTAL WEIGHT = 36 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 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=0.12/1.00 (A-B:1), BC=0.02/1.00 (I-J:4), WS=0.04/1.00 (E-I:1), SS=0.08/1.00 (A-B: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)	(PL)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	818 354	1687 768	1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (C) (INPUT = 0.80)

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



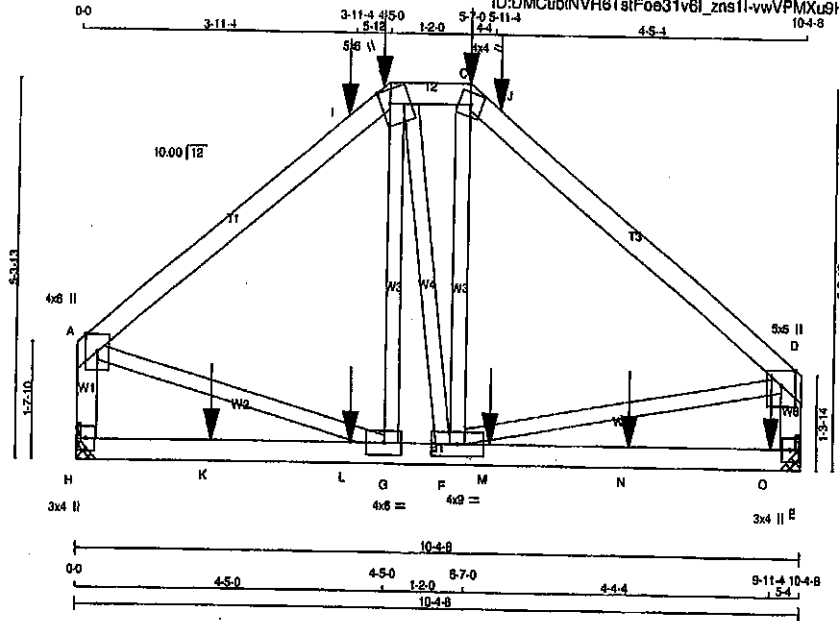
Structural component only
DWG# T-2007878

JOB NAME 408312	TRUSS NAME T18	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TstF0e31v6l_zns1l-vwVPMxU9HAF_cYAjYHPwVp4wJPa2?2lu7PjQlyzLpgC

Scale = 1:29.7



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

ALL WEBS 2x3 DRY No.2

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table in inches)	W	LEN	Y	X
JT TYPE				
A TMVW+p	MT20	4.0	6.0	Edge
B TIWW+m	MT20	5.0	6.0	2.25 1.50
C TIW-m	MT20	4.0	4.0	
D TMVW+p	MT20	5.0	6.0	Edge
E BMVt+p	MT20	3.0	4.0	
F BMWWW-t	MT20	4.0	9.0	
G BMWW-t	MT20	4.0	8.0	
H BMVt+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	HORZ	GROSS REACTION	DOWN	HORZ	UPLIFT	BRG	BRG
H	1215	0	1215	0	0	0	MECHANICAL	MECHANICAL
E	1202	0	1202	0	0	0	MECHANICAL	MECHANICAL

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	856	582/0	0/0	0/0	0/0	274/0	0/0
E	850	557/0	0/0	0/0	0/0	293/0	0/0

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED CS (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS (LBS)	
FR-TO		FROM TO		FR-TO			
A-I	-1038/0	-91.8 -91.8 0.46 (1)	5.48	Q-B	-141/22	0.08 (1)	
I-B	-1038/0	-91.8 -91.8 0.46 (1)	5.48	B-F	0/55	0.02 (4)	
B-C	-842/0	-91.8 -91.8 0.03 (1)	6.25	F-C	-88/71	0.04 (1)	
C-J	-1047/0	-91.8 -91.8 0.51 (1)	5.38	A-G	0/867	0.21 (1)	
J-D	-1047/0	-91.8 -91.8 0.51 (1)	5.38	F-D	0/863	0.21 (1)	
H-A	-1183/0	0.0 0.0 0.14 (1)	7.35				
E-D	-1112/0	0.0 0.0 0.13 (1)	7.48				
H-K	0/0	-18.5 -18.5 0.18 (4)	10.00				
K-L	0/0	-18.5 -18.5 0.18 (4)	10.00				
L-G	0/0	-18.5 -18.5 0.18 (4)	10.00				
G-F	0/830	-18.5 -18.5 0.30 (4)	10.00				
F-M	0/0	-18.5 -18.5 0.23 (4)	10.00				
M-N	0/0	-18.5 -18.5 0.23 (4)	10.00				
N-O	0/0	-18.5 -18.5 0.23 (4)	10.00				
O-E	0/0	-18.5 -18.5 0.23 (4)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LOC1	MAX.	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
B	4-5-0	-55	-82	---	FRONT	VERT	DEAD	---	C1
B	4-5-0	-285	-285	---	FRONT	VERT	SNOW	---	C1
C	5-7-0	-55	-82	---	FRONT	VERT	DEAD	---	C1
C	5-7-0	-285	-285	---	FRONT	VERT	SNOW	---	C1
I	3-11-4	-202	-202	---	FRONT	VERT	TOTAL	---	C1
J	5-11-4	-207	-207	---	FRONT	VERT	TOTAL	---	C1
K	1-11-4	-38	-38	---	FRONT	VERT	TOTAL	---	C1
L	3-11-4	-38	-38	---	FRONT	VERT	TOTAL	---	C1
M	5-11-4	-38	-38	---	FRONT	VERT	TOTAL	---	C1
N	7-11-4	-38	-38	---	FRONT	VERT	TOTAL	---	C1
O	9-11-4	-41	-41	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 49 = 97 lb

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER

LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.35")
CALCULATED VERT. DEFL.(LL) = 1/899 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = 1/989 (0.05")

CSI: TC=0.51/1.00 (C-D:1), BC=0.30/1.00 (F-G:4),
WB=0.21/1.00 (A-G:1), SSI=0.27/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

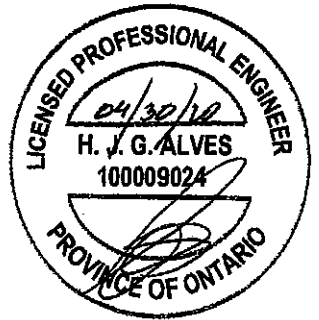
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

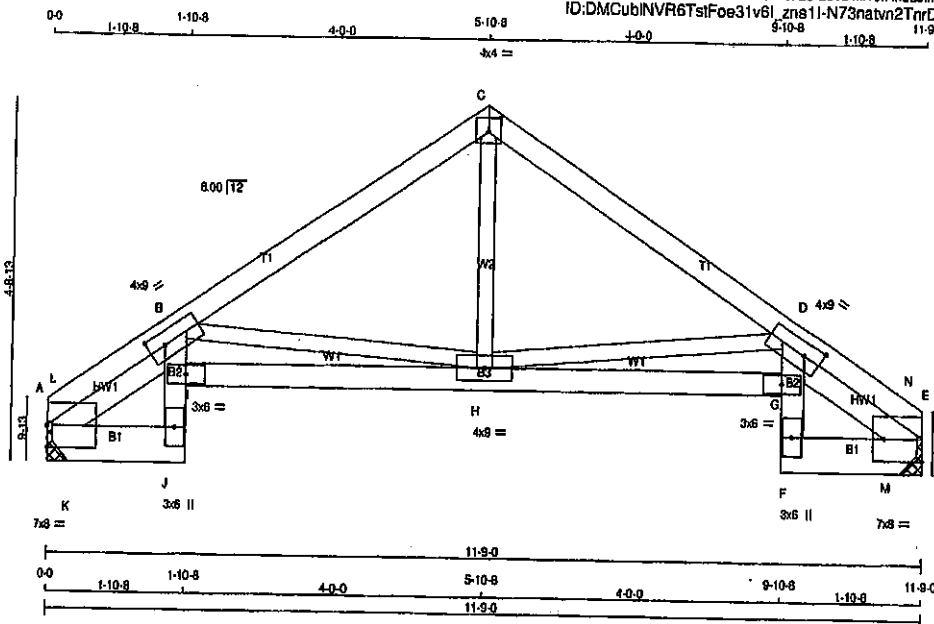
JSI GRIP= 0.88 (A) (INPUT = 0.80)
JSI METAL= 0.51 (A) (INPUT = 1.00)



Structural component only
DWG# T-2007898

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408312	T19S	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

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Scale = 1:27.8

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

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
A - C	MT20	7.0	8.0		
B - TMVWW-1	MT20	4.0	9.0	2.00	2.75
C - TTW-p	MT20	4.0	4.0	2.25	2.00
D - TMVWW-1	MT20	4.0	9.0	2.00	2.75
E - TMVWW-1	MT20	7.0	8.0	3.50	Edge
F - BMV-p	MT20	3.0	6.0		
G - BVH-M	MT20	3.0	6.0		
H - BMVWW-1	MT20	4.0	9.0		
I - BVH-M	MT20	3.0	6.0		
J - BMV-p	MT20	3.0	6.0		

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	HORZ	BRG	IN-SX	BRG	IN-SX
A	648	0	0	648	0	0	MECHANICAL	0	MECHANICAL
E	648	0	0	648	0	0	MECHANICAL	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
A	458	301 / 0	0 / 0	0 / 0	0 / 0	157 / 0	0 / 0
E	458	301 / 0	0 / 0	0 / 0	0 / 0	157 / 0	0 / 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-L	-708 / 0	-91.8	-91.8 0.02 (1)	H-C	0 / 389	0.09 (1)	
L-B	-442 / 0	-91.8	-91.8 0.04 (4)	H-D	-873 / 0	0.26 (1)	
B-C	-685 / 0	-91.8	-91.8 0.27 (1)	B-H	-873 / 0	0.26 (1)	
C-D	-685 / 0	-91.8	-91.8 0.27 (1)	K-L	0 / 276	0.00 (1)	
D-N	-442 / 0	-91.8	-91.8 0.04 (4)	K-B	-382 / 0	0.05 (1)	
N-E	-708 / 0	-91.8	-91.8 0.02 (1)	M-N	0 / 276	0.00 (1)	
				M-D	-382 / 0	0.05 (1)	
A-K	0 / 387	-18.5	-18.5 0.05 (1)				
K-J	0 / 619	-18.5	-18.5 0.08 (1)				
J-I	0 / 18	0.0	0.0 0.77 (1)				
I-B	-33 / 25	0.0	0.0 0.77 (1)				
I-H	0 / 1429	-18.5	-18.5 0.28 (1)				
H-G	0 / 1429	-18.5	-18.5 0.28 (1)				
F-G	0 / 18	0.0	0.0 0.77 (1)				
G-D	-33 / 25	0.0	0.0 0.77 (1)				
F-M	0 / 619	-18.5	-18.5 0.08 (1)				
M-E	0 / 387	-18.5	-18.5 0.05 (1)				

TOTAL WEIGHT = 2 X 49 = 97 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPC 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 (0.39")
CALCULATED VERT. DEFL. (LL) = L/999 (0.06")
ALLOWABLE DEFL. (TL) = L/360 (0.39")
CALCULATED VERT. DEFL. (TL) = L/999 (0.11")

CSI: TC=0.27/1.00 (D=0:1), BC=0.77/1.00 (F=0:1), WB=0.28/1.00 (D=1:1), SS=0.63/1.00 (B=1:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.65 (C) (INPUT = 0.90)
JSI METAL = 0.40 (I) (INPUT = 1.00)

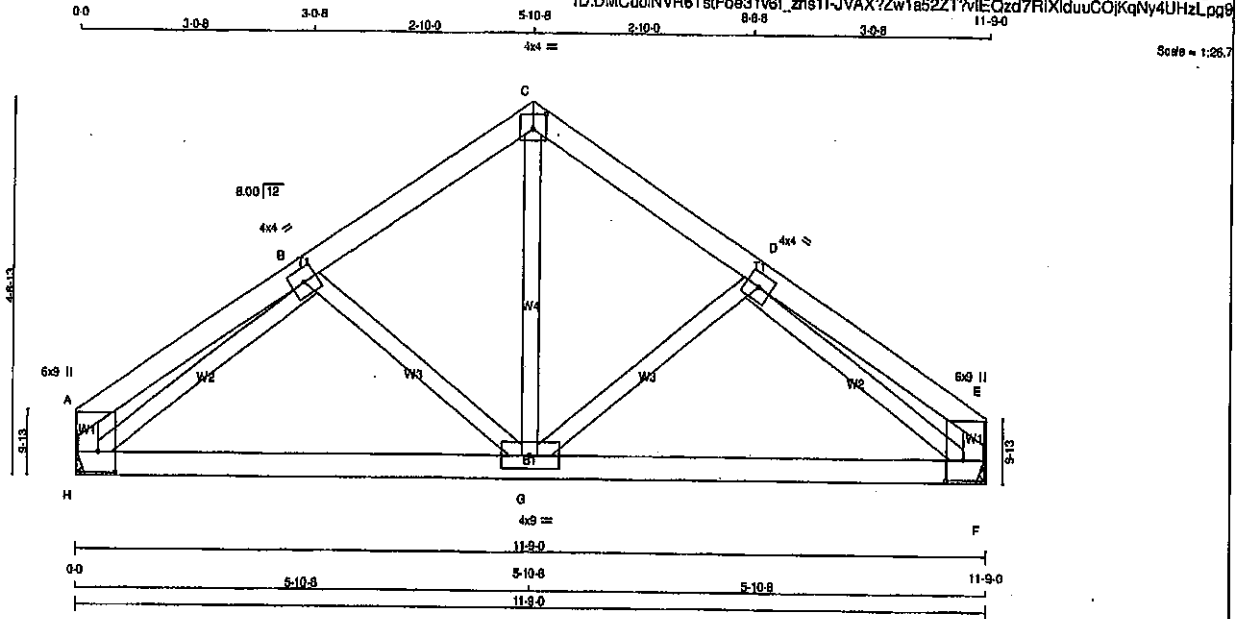


Structural component only
DWG# T-2007899

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408312	T20	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
A, E, F, H						
A						
A	TMBMWV1*	pMT20	6.0	9.0	3.00	2.75
B	TMWW-1	MT20	4.0	4.0		
C	TTW-p	MT20	4.0	4.0	2.25	2.00
D	TMWW-1	MT20	4.0	4.0		
E	TMBMWV1*	pMT20	6.0	9.0	3.00	2.75
G	BMWW-1	MT20	4.0	9.0		

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
H	648	0	648	0
F	648	0	648	0

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

UNFACTORED REACTIONS

1ST LCASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
H	458	301 / 0	0 / 0	0 / 0	0 / 0	157 / 0	0 / 0
F	458	301 / 0	0 / 0	0 / 0	0 / 0	157 / 0	0 / 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LBS)	MAX. HORIZ. LOAD (LBS)	MEMB. FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. HORIZ. LOAD (LBS)
FR-TO							
A-B	0 / 18	-91.8	-91.8	0.12 (1)	10.00	G-C	0 / 382
B-C	-553 / 0	-91.8	-91.8	0.09 (1)	8.25	G-D	-195 / 0
C-D	-553 / 0	-91.8	-91.8	0.09 (1)	8.25	G-E	-195 / 0
D-E	0 / 18	-91.8	-91.8	0.12 (1)	10.00	H-B	-778 / 0
H-A	-108 / 0	0.0	0.0	0.01 (1)	7.81	D-F	-778 / 0
F-E	-108 / 0	0.0	0.0	0.01 (1)	7.81		
H-G	0 / 597	-18.5	-18.5	0.23 (4)	10.00		
G-F	0 / 597	-18.5	-18.5	0.23 (4)	10.00		

TOTAL WEIGHT = 46 lb (M/F)

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/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 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) = $L/360$ (0.39")
CALCULATED VERT. DEFL. (LL) = $L/899$ (0.01")
ALLOWABLE DEFL. (TL) = $L/360$ (0.39")
CALCULATED VERT. DEFL. (TL) = $L/899$ (0.04")

CSI: TC=0.12/1.00 (D-E:1), BC=0.23/1.00 (G-H:4), WB=0.19/1.00 (D-F: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) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 768 1887 1558

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.84 (C) (INPUT = 0.99)
JSI METAL = 0.27 (B) (INPUT = 1.00)

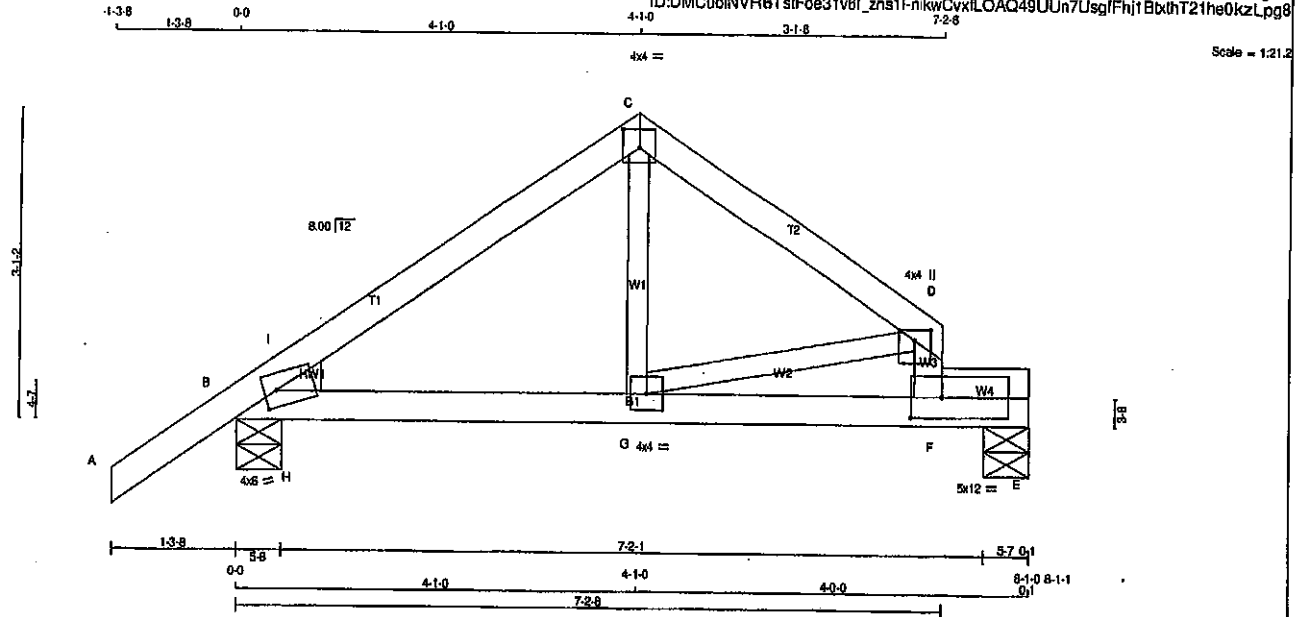


Structural component only
DWG# T-2007900

JOB NAME 408312	TRUSS NAME T21	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Tamarack Roof Truss, Burlington

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Scale = 1/21.2

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
F - D	2x4	DRY	No.2
B - E	2x4	DRY	No.2
F - E	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	TMBH1-m	MT20	4.0	8.0	2.00	1.50
C	TTW-p	MT20	4.0	4.0	2.25	2.00
D	TMVW-p	MT20	4.0	4.0	1.25	2.00
F	BMVW-1	MT20	5.0	12.0	2.50	4.00
G	BWVW-1	MT20	4.0	4.0		

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	RECORD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
B	568	0	568	0	5-8
E	369	0	369	0	5-8 (5-7)

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

1ST CASE	MAX/MIN COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	399	275 / 0	0 / 0	0 / 0	0 / 0	124 / 0	0 / 0
E	263	184 / 0	0 / 0	0 / 0	0 / 0	88 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, 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		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PL)	MAX. CS (LC)	MEMB.	FORCE (LBS)	MAX. CS (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 / 34	-91.8	-91.8 0.12 (1)	G-C	0 / 198	0.04 (1)	
B-I	-421 / 0	-91.8	-91.8 0.05 (1)	G-D	0 / 375	0.08 (1)	
I-C	-447 / 0	-91.8	-91.8 0.17 (1)	H-J	-231 / 0	0.00 (1)	
C-D	-441 / 0	-91.8	-91.8 0.16 (1)				
F-D	-469 / 0	0.0	0.0 0.05 (1)				
B-H	0 / 387	-18.5	-18.5 0.23 (1)				
H-G	0 / 387	-18.5	-18.5 0.24 (1)				
G-F	0 / 0	-18.5	-18.5 0.43 (1)				
F-E	0 / 0	-18.5	-18.5 0.18 (1)				

TOTAL WEIGHT = 3 X 28 = 83 lb [M]

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2018 AMENDMENT)
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.8 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 (0.27")
CALCULATED VERT. DEFL. (LL) = U/999 (0.04")
ALLOWABLE DEFL. (TL) = L/360 (0.27")
CALCULATED VERT. DEFL. (TL) = U/999 (0.08")

CSI: TC=0.17/1.00 (C-I:1), BC=0.43/1.00 (F-G:1),
WB=0.08/1.00 (D-G:1), SSI=0.16/1.00 (B-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.43 (D) (INPUT = 0.90)
JSI METAL = 0.17 (F) (INPUT = 1.00)

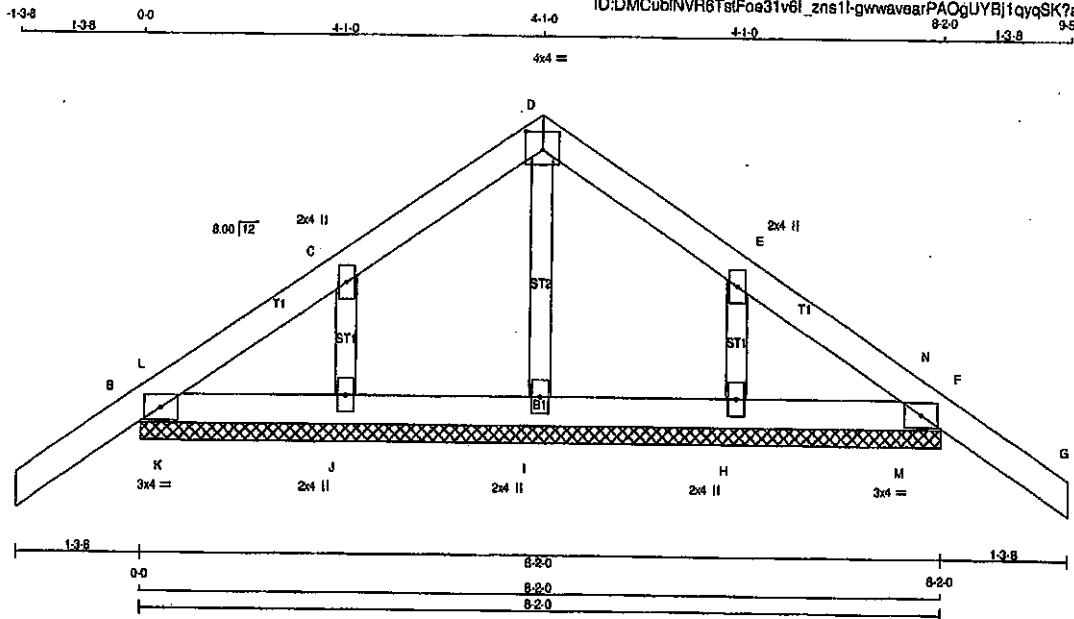


Structural component only
DWG# T-2007901

JOB NAME 408312	TRUSS NAME G22	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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Scale = 1/21.1

LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER DESCR.
A - D 2x4 DRY No.2 SPF
D - G 2x4 DRY No.2 SPF
B - F 2x4 DRY No.2 SPF
ALL WEBS 2x3 DRY No.2 SPF
ALL GABLE WEBS 2x3 DRY No.2 SPF
DRY: SEASONED LUMBER.
GABLE STUDS SPACED AT 2'-0" O.C.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TMW-w	MT20	2.0	4.0		
D	TTW-p	MT20	4.0	4.0	2.25	2.00
E	TMW-w	MT20	2.0	4.0		
F	TMB1-I	MT20	3.0	4.0		
H, I, J	BMW1-w	MT20	2.0	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.

LOADING

TOTAL LOAD CASES: (4)

MEMB.	FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED MAX CSI (LC)
A-B	0/34	-91.8	-91.8	0.12 (1)	10.00	I-D	-115/0	0.02 (1)	
B-L	-56/0	-91.8	-91.8	0.01 (4)	8.25	J-C	-213/0	0.03 (1)	
L-C	-32/0	-91.8	-91.8	0.06 (1)	8.25	H-E	-213/0	0.03 (1)	
C-D	-43/0	-91.8	-91.8	0.06 (1)	8.25	K-L	-49/4	0.00 (1)	
D-E	-43/0	-91.8	-91.8	0.06 (1)	8.25	M-N	-49/4	0.00 (1)	
E-N	-32/0	-91.8	-91.8	0.06 (1)	8.25				
N-F	-56/0	-91.8	-91.8	0.01 (4)	8.25				
F-G	0/34	-91.8	-91.8	0.12 (1)	10.00				
B-K	0/39	-18.5	-18.5	0.03 (1)	10.00				
K-J	0/39	-18.5	-18.5	0.03 (1)	10.00				
J-I	0/28	-18.5	-18.5	0.02 (1)	10.00				
I-H	0/28	-18.5	-18.5	0.02 (1)	10.00				
H-M	0/39	-18.5	-18.5	0.03 (1)	10.00				
M-F	0/39	-18.5	-18.5	0.03 (1)	10.00				

TOTAL WEIGHT = 28 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

CSI: TC=0.12/1.00 (F-G:1), BC=0.03/1.00 (J-K:1),
WB=0.03/1.00 (C-J:1), SS=0.08/1.00 (F-G:1)
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

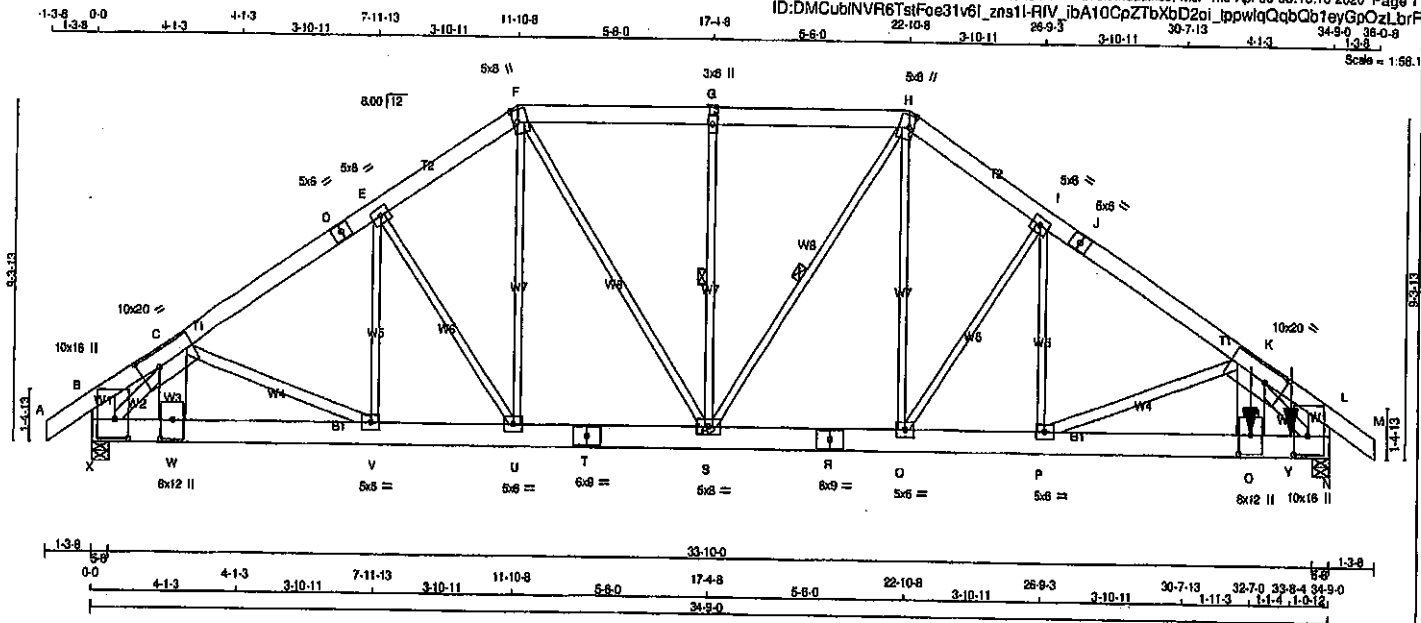
JSI GRIP= 0.18 (F) (INPUT = 0.90)
JSI METAL= 0.11 (C) (INPUT = 1.00)



Structural component only
DWG# T-2007879

JOB NAME 408313	TRUSS NAME T30	QUANTITY 1	PLY 3	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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 ID:DMCubINVR6TstFoe31v6l_zns1l-RIV_ibA10CpZtbXbD2oi_ppwliQqbQb1eyGpOzLbrH



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x6	DRY	No.2
D - F	2x6	DRY	No.2
F - H	2x6	DRY	No.2
H - J	2x6	DRY	No.2
J - M	2x6	DRY	No.2
X - B	2x6	DRY	No.2
N - L	2x6	DRY	No.2
X - T	2x6	DRY	No.2
T - R	2x6	DRY	No.2
R - N	2x6	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
W - C	2x10	DRY	No.2
C - V	2x4	DRY	No.2
P - K	2x4	DRY	No.2
O - K	2x10	DRY	No.2
X - C	2x4	DRY	No.2
K - N	2x4	DRY	No.2

DRY, SEASONED LUMBER.
 DESIGN CONSISTS OF 3 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS: (0.122"x3") SPIRAL NAILS		
A-D	2	TOP
D-F	2	TOP
F-H	2	TOP
H-J	2	TOP
J-M	2	TOP
X-B	2	TOP
N-L	2	TOP
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS		
X-T	4	TOP
T-R	4	TOP
R-N	4	TOP
WEBS: (0.122"x3") SPIRAL NAILS		
2x3	1	TOP
2x4	1	TOP
K-O	5	TOP
2x10	5	TOP

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

FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	JT	HORIZ	UP/LT	IN-SX	IN-SX	IN-SX
X	2702	0	2702	0	5-8	5-8	5-8
N	12441	0	12441	0	5-8	5-8	5-8

UNFACTORED REACTIONS		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	JT	COMBINED
X	1907	1270 / 0	0 / 0
N	8784	5843 / 0	0 / 0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.65 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF G-S, H-S.

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

LOADING
 TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS	
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MAX. (LBS)	MEMB.	FORCE (LBS)
A-B	0 / 36	-91.8	-91.8	W-C	-21 / 88
B-C	0 / 35	-91.8	-91.8	C-V	0 / 520
C-D	-3361 / 0	-91.8	-91.8	V-E	-84 / 45
D-E	-3361 / 0	-91.8	-91.8	E-U	-374 / 0
E-F	-3164 / 0	-91.8	-91.8	U-F	0 / 412
F-G	-3232 / 0	-91.8	-91.8	F-S	0 / 1182
G-H	-3232 / 0	-91.8	-91.8	S-G	-583 / 0
H-I	-4197 / 0	-91.8	-91.8	G-H	-352 / 0
I-J	-5777 / 0	-91.8	-91.8	H-I	0 / 2278
J-K	-5777 / 0	-91.8	-91.8	I-J	-2708 / 0
K-L	-114 / 0	-91.8	-91.8	J-K	0 / 2567
L-M	0 / 36	-91.8	-91.8	K-L	-5904 / 0
M-N	-164 / 0	0.0	0.0	L-M	0 / 8561
N-L	-432 / 0	0.0	0.0	M-N	-3371 / 0
X-W	0 / 2318	-18.5	-18.5	N-L	-14782 / 0
W-V	0 / 2318	-18.5	-18.5	X-W	0 / 55 (1)
V-U	0 / 2803	-18.5	-18.5	W-V	0 / 55 (1)
U-T	0 / 2804	-18.5	-18.5	V-U	0 / 55 (1)
T-S	0 / 2804	-18.5	-18.5	U-T	0 / 55 (1)
S-R	0 / 3419	-18.5	-18.5	T-S	0 / 55 (1)
R-Q	0 / 3419	-18.5	-18.5	S-R	0 / 55 (1)
Q-P	0 / 4888	-18.5	-18.5	R-Q	0 / 55 (1)
P-O	0 / 10385	-18.5	-18.5	Q-P	0 / 55 (1)
O-Y	0 / 10183	-18.5	-18.5	P-O	0 / 55 (1)
Y-N	0 / 10163	-18.5	-18.5	O-Y	0 / 55 (1)

FACTORED CONCENTRATED LOADS (LBS)		FACE		HEEL	
JT	LOC.	JT	LOC.	JT	LOC.
O	32-7-0	10008	10008	---	---
Y	33-8-4	-1043	-1043	---	---

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, NBC 2010, NBCC 2015

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.16")
 CALCULATED VERT. DEFL.(LL) = L/998 (0.08")
 ALLOWABLE DEFL.(TL) = L/360 (1.16")
 CALCULATED VERT. DEFL.(TL) = L/998 (0.11")

CSI: TC=0.15/1.00 (I-K:1), BC=0.57/1.00 (O-P:1), WB=0.88/1.00 (K-P:1), SS=0.29/1.00 (N-O:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (P) (INPUT = 0.90)
 JSI METAL= 0.77 (C) (INPUT = 1.00)



Structural component only
 DWG# T-2007918 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408313	T30	1	3	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TstFoe31v6I znst1I-RfV ibA10CpZTbXbD2oi ppwlaQqbQb1eyGpOzLbrF

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

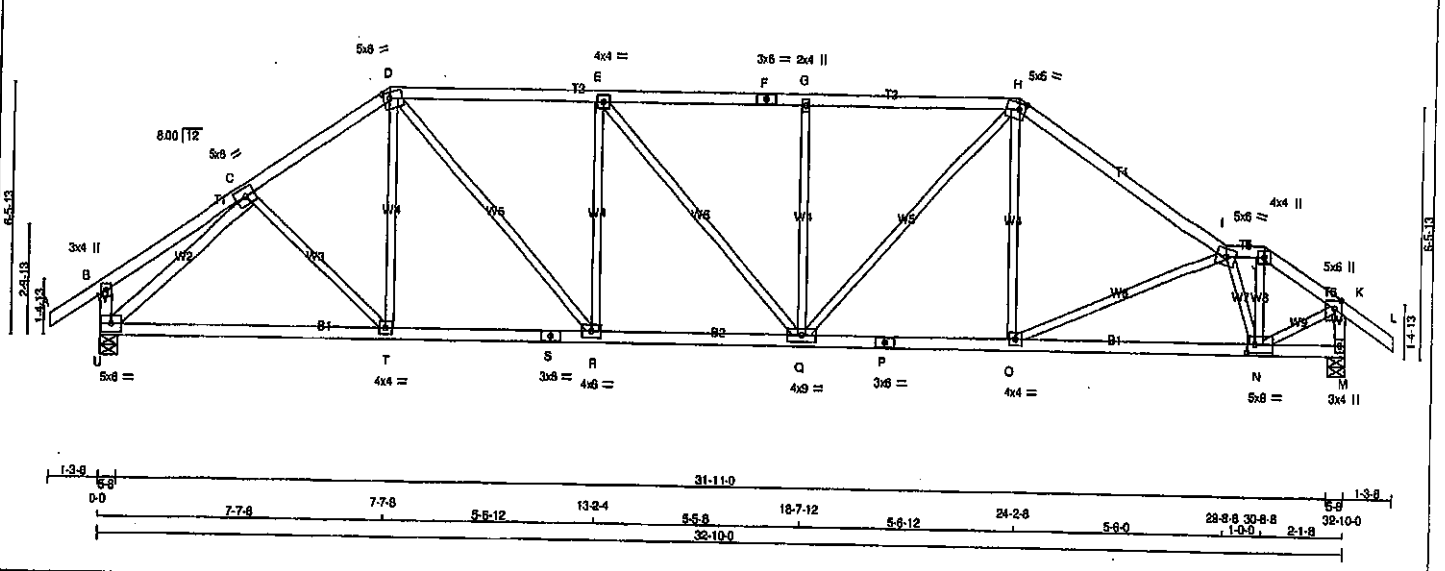
GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B, L, N, X						
B						
B	TMBMW1*	pMT20	10.0	18.0	6.25	4.50
C	TMWW1	MT20	10.0	20.0	4.75	6.25
D	TS-t	MT20	5.0	6.0		
E	TMWW-t	MT20	5.0	6.0		
F	TTWW+m	MT20	5.0	8.0	4.00	1.50
G	TMW+w	MT20	3.0	6.0		
H	TTWW+m	MT20	5.0	8.0	4.00	1.50
I	TMWW-t	MT20	5.0	6.0		
J	TS-t	MT20	5.0	6.0		
K	TMWW1	MT20	10.0	20.0	4.75	6.25
N	TMBMW1*	pMT20	10.0	18.0	6.25	4.50
O	BMW+w	MT20	8.0	12.0	6.25	4.00
P, Q, U, V						
P	BMWW-t	MT20	5.0	6.0		
R	BS-t	MT20	6.0	9.0		
S	BMWW1	MT20	5.0	6.0		
T	BS-t	MT20	6.0	9.0		
W	BMW+w	MT20	8.0	12.0	6.25	4.00



Structural component only
DWG# T-2007918 22



LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										TOTAL WEIGHT = 143 lb					
N. L. G. A. RULES		SIZE	LUMBER	DESCR.	BEARINGS										DESIGN CRITERIA				
A - D	2x4	DRY	No.2	SPF	FACTORED					MAXIMUM FACTORED					SPECIFIED LOADS:				
D - F	2x4	DRY	No.2	SPF	GROSS REACTION					GROSS REACTION					TOP CH. LL = 25.6 PSF				
F - H	2x4	DRY	No.2	SPF	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG	BRG	DL = 6.0 PSF						
H - I	2x4	DRY	No.2	SPF	U	1938	0	1938	0	5-8	5-8	5-8	BOT CH. LL = 6.0 PSF						
I - J	2x4	DRY	No.2	SPF	M	1938	0	1938	0	0	5-8	5-8	DL = 7.4 PSF						
J - L	2x4	DRY	No.2	SPF	UNFACTORED REACTIONS										TOTAL LOAD = 39.0 PSF				
U - B	2x4	DRY	No.2	SPF	1ST LCASE					MAX/MIN COMPONENT REACTIONS					SPACING = 24.0 IN. GC				
M - K	2x4	DRY	No.2	SPF	JT	COMBINED	SNOW	LIVE	PERMLIVE	WIND	DEAD	SOIL	LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12						
U - S	2x4	DRY	No.2	SPF	U	1367	910 / 0	0 / 0	0 / 0	0 / 0	458 / 0	0 / 0	THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015						
S - P	2x4	DRY	No.2	SPF	M	1367	910 / 0	0 / 0	0 / 0	0 / 0	458 / 0	0 / 0							
P - M	2x4	DRY	No.2	SPF	BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) U, M														
ALL WEBS				2x3	DRY	No.2	BRACING												
EXCEPT							TOP CHORD TO BE SHEATHED OR MAX. RUSH IN BRACING												
J - C	2x4	DRY	No.2	SPF															
DRY: SEASONED LUMBER.																			

PLATES (table is in inches)				UNFACTORED REACTIONS				DESIGN CRITERIA			
JT	TYPE	PLATES	W	LEN	Y	X	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SPECIFIED LOADS:		
B	TMV+p	MT20	3.0	4.0			U	1367 910 / 0	TOP CH. LL = 25.6 PSF		
C	TMVW-1	MT20	5.0	6.0			M	1367 910 / 0	DL = 6.0 PSF		
D	TTVW-m	MT20	5.0	6.0	1.75	2.00			BOT CH. LL = 0.0 PSF		
E	TMVW-1	MT20	4.0	4.0					DL = 7.4 PSF		
F	TS-1	MT20	3.0	6.0					TOTAL LOAD = 39.0 PSF		
G	TMVW+p	MT20	2.0	4.0					SPACING = 24.0 IN./C		
H	TTVW-m	MT20	5.0	6.0	2.00	2.00			LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 8.00/12		
I	TTVW-1	MT20	5.0	6.0					THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBC 2015		
J	TMV+p	MT20	4.0	4.0					THIS DESIGN COMPLIES WITH:		
K	TMVW+p	MT20	5.0	6.0	2.50	2.25			- PART 9 OF CBC 2018, CBC 2012, ABC 2019		
L	BMVW-1	MT20	3.0	4.0					- PART 9 OF CBC 2012 (2019 AMENDMENT)		
M	BMVW-1	MT20	5.0	6.0	2.50	2.50			- CSA 086-09, CSA 086-14		
N	BMVW-1	MT20	4.0	4.0					- TPC 2011, TPC 2014		
O	BS-1	MT20	3.0	6.0					(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		
P	BS-1	MT20	4.0	6.0					ALLOWABLE DEFL. (LL) = L/360 (1.09")		
Q	BMVW-1	MT20	4.0	6.0					CALCULATED VERT. DEFL. (LL) = L/999 (0.11")		
R	BMVW-1	MT20	4.0	6.0					ALLOWABLE DEFL. (TL) = L/360 (1.09")		
S	BS-1	MT20	3.0	6.0					CALCULATED VERT. DEFL. (TL) = L/999 (0.22")		
T	BMVW-1	MT20	4.0	4.0					CSI: TC=0.89/1.00 (H-I); BC=0.43/1.00 (Q-R); WB=0.75/1.00 (C-U); SS=0.24/1.00 (D-E);		
U	BMVW-1	MT20	5.0	6.0					DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10		
									COMP=1.10 SHEAR=1.10 TENS=1.10		

CHORDS

MEMB.

MAX. FACTORED FORCE (LBS)

FACTORED VERT. LOAD (LBS)

LC1

MAX. UNBRACED LENGTH (IN)

FR-TO

WEBS

MEMB.

MAX. FACTORED FORCE (LBS)

MAX. UNBRACED LENGTH (IN)

FR-TO

U-T

0 / 1698

-18.5

-18.5

0.40 (1)

10.00

T-S

0 / 1732

-18.5

-18.5

0.41 (1)

10.00

S-R

0 / 1732

-18.5

-18.5

0.41 (1)

10.00

R-Q

0 / 2354

-18.5

-18.5

0.43 (1)

10.00

Q-P

0 / 1674

-18.5

-18.5

0.39 (1)

10.00

P-O

0 / 1674

-18.5

-18.5

0.39 (1)

10.00

O-N

0 / 2032

-18.5

-18.5

0.41 (1)

10.00

N-M

0 / 0

-18.5

-18.5

0.11 (4)

10.00

LICENSED PROFESSIONAL ENGINEER

04/30/20

H. J. G. ALVES

100009024

PROVINCE OF ONTARIO

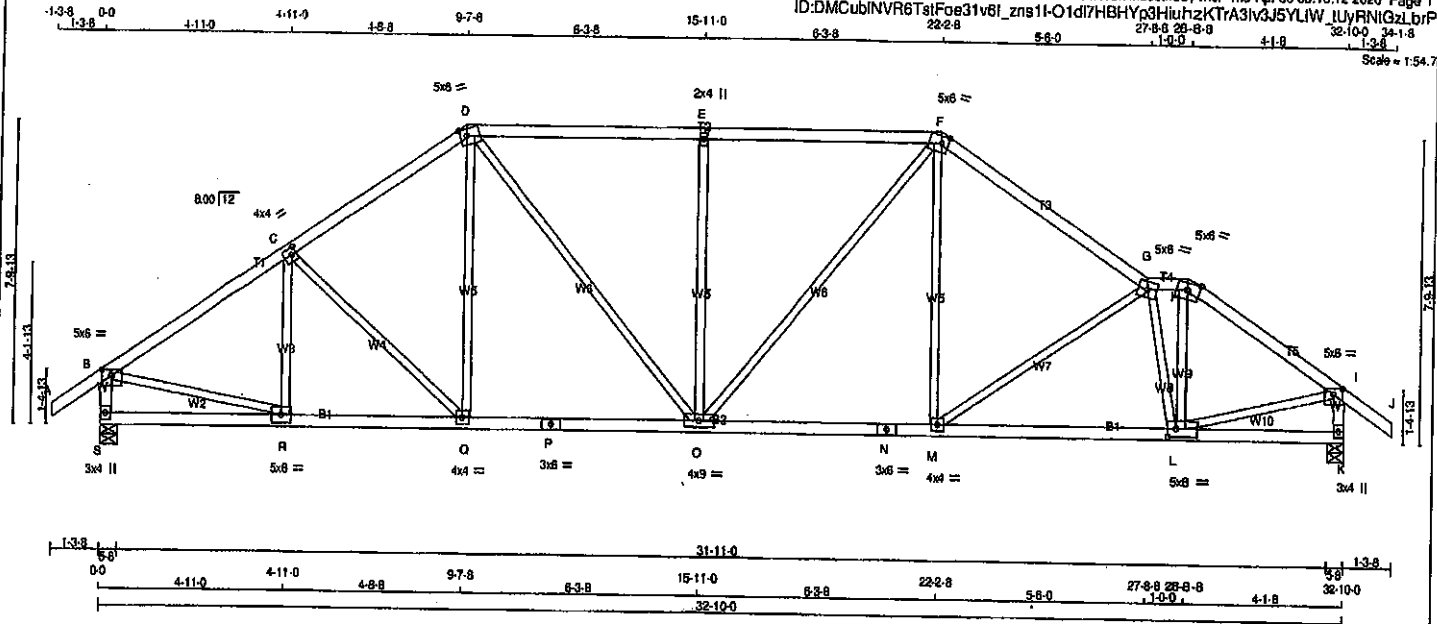
Structural component only

DWG# T-2007919

JOB NAME 408313	TRUSS NAME T32	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TstF0e31v6f_zns11-01d7HBHYp3HuhzKTR3V3J5YLW_UyRNIQzLbrP
22-2-8 27-8-8 28-8-8 32-10-0 34-1-8
Scale = 1:54.7



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - G	2x4	DRY	No.2
G - 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
B	TMVW-p	MT20	5.0	8.0	1.75
C	TMVW-i	MT20	4.0	4.0	2.00
D	TTVW-m	MT20	5.0	8.0	2.25
E	TMVW-w	MT20	2.0	4.0	
F	TTVW-m	MT20	5.0	8.0	2.25
G	TTVW-m	MT20	5.0	8.0	
H	TTVW-m	MT20	5.0	8.0	Edge
I	TMVW-p	MT20	5.0	8.0	1.75
K	BMV1-p	MT20	3.0	4.0	
L	BMVWV-1	MT20	5.0	8.0	2.50
M	BMVWV-1	MT20	4.0	4.0	
N	BS-1	MT20	3.0	6.0	
O	BMVWV-1	MT20	4.0	9.0	
P	BS-1	MT20	3.0	6.0	
Q	BMVWV-1	MT20	4.0	4.0	
R	BMVWV-1	MT20	5.0	8.0	
S	BMV1-p	MT20	3.0	4.0	

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
	FACTORED	MAXIMUM FACTORED	INPUT	REQD					
	GROSS REACTION	GROSS REACTION	BRG	BRG					
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
S	1938	0	1938	0	0	5-8	5-8		
K	1938	0	1938	0	0	5-8	5-8		
UNFACTORED REACTIONS									
	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
JT	COMBINED								
S	1387	910 / 0	0 / 0	0 / 0	0 / 0	458 / 0	0 / 0		
K	1387	910 / 0	0 / 0	0 / 0	0 / 0	458 / 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 = 4.14 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. UNBRAC	MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD
	(LBS)	(PLF)	FROM	TO	LENGTH		(LBS)	(PLF)	FROM
FR-TO						FR-TO			
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	R-C	-308 / 0	0.10 (1)	
B-C	-2134 / 0	-91.8	-91.8	0.34 (1)	4.35	C-Q	-209 / 0	0.16 (1)	
C-D	-2007 / 0	-91.8	-91.8	0.32 (1)	4.47	Q-D	0 / 248	0.08 (1)	
D-E	-2037 / 0	-91.8	-91.8	0.54 (1)	4.14	D-O	0 / 608	0.14 (1)	
E-F	-2037 / 0	-91.8	-91.8	0.54 (1)	4.14	O-E	-707 / 0	0.81 (1)	
F-G	-2087 / 0	-91.8	-91.8	0.44 (1)	4.27	O-F	0 / 462	0.10 (1)	
G-H	-1778 / 0	-91.8	-91.8	0.04 (1)	5.00	M-F	0 / 328	0.07 (1)	
H-I	-2080 / 0	-91.8	-91.8	0.26 (1)	4.48	M-G	-362 / 0	0.32 (1)	
I-J	0 / 35	-91.8	-91.8	0.12 (1)	10.00	L-H	0 / 924	0.21 (1)	
S-B	-1895 / 0	0.0	0.0	0.20 (1)	6.10	B-R	0 / 1842	0.41 (1)	
K-I	-1804 / 0	0.0	0.0	0.20 (1)	6.09	L-I	0 / 1781	0.40 (1)	
S-R	0 / 0	-18.5	-18.5	0.09 (4)	10.00	G-L	-1277 / 0	0.34 (1)	
R-Q	0 / 1799	-18.5	-18.5	0.38 (1)	10.00				
Q-P	0 / 1647	-18.5	-18.5	0.33 (1)	10.00				
P-O	0 / 1647	-18.5	-18.5	0.33 (1)	10.00				
O-N	0 / 1741	-18.5	-18.5	0.37 (1)	10.00				
N-M	0 / 1741	-18.5	-18.5	0.37 (1)	10.00				
M-L	0 / 2035	-18.5	-18.5	0.41 (1)	10.00				
L-K	0 / 0	-18.5	-18.5	0.11 (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	= 36.0 PSF
SPACING = 24.0 IN/C	

LOADING IN ALL FLAT SECTIONS 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 089-09, CSA 089-14
- TRC 2011, TRC 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 (1.09")
CALCULATED VERT. DEFL. (LL) = L/999 (0.09")
ALLOWABLE DEFL. (TL) = L/360 (1.09")
CALCULATED VERT. DEFL. (TL) = L/999 (0.16")

CSI: TC=0.54/1.00 (D-E:1), BC=0.41/1.00 (L-M:1), WB=0.81/1.00 (E-O:1), SS=0.28/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

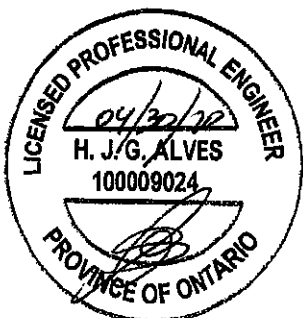
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES				
PLATE GRIP(DRY)	SHEAR	SECTION		
(PSI)	(PLI)	(PLI)		
MAX MIN	MAX MIN	MAX MIN		
MT20	618	354	1657	768
			1987	1656

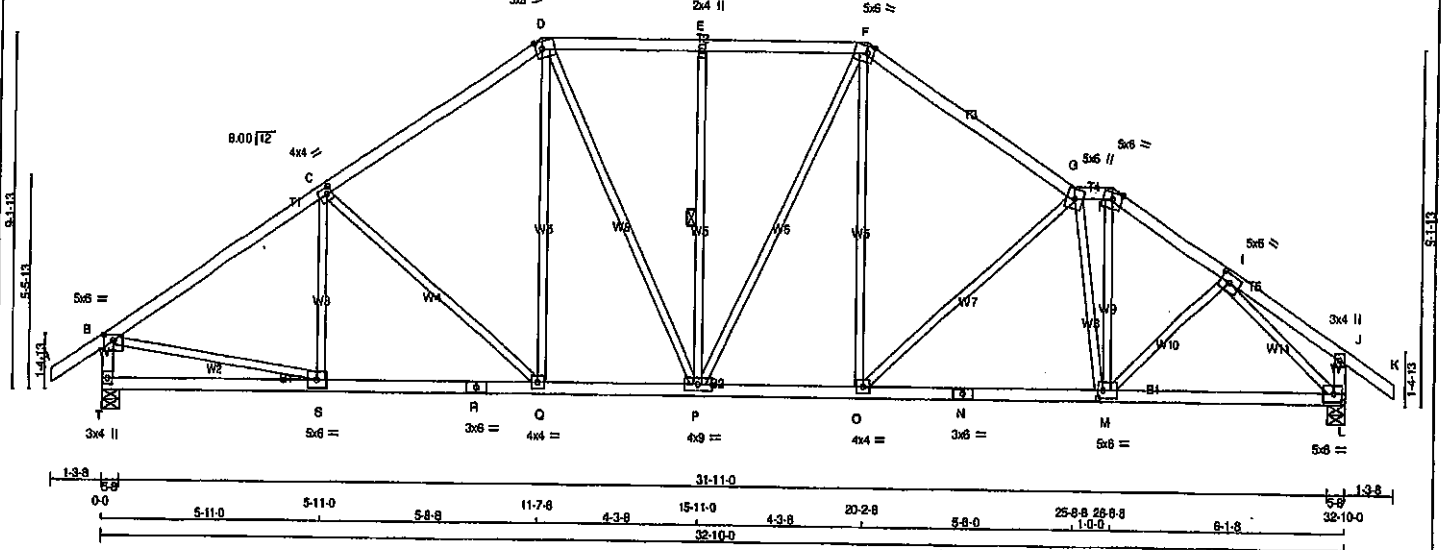
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.88 (L) (INPUT = 0.96)
JSI METAL=0.56 (G) (INPUT = 1.00)



Structural component only
DWG# T-2007920



LUMBER
 N. L. G. A. RULES
 CHORDS SIZE LUMBER DESCR.
 A - D 2x4 DRY No.2 SPF
 D - F 2x4 DRY No.2 SPF
 F - G 2x4 DRY No.2 SPF
 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 TMV-p	MT20	5.0	6.0	1.75	3.00
C TMW-1	MT20	4.0	4.0	2.00	1.50
D TTW-m	MT20	5.0	8.0	2.25	2.00
E TMW-w	MT20	2.0	4.0		
F TTW-m	MT20	5.0	8.0	2.25	2.00
G TTW-w	MT20	5.0	8.0		
H TTW-m	MT20	5.0	8.0	Edge	
I TMW-1	MT20	5.0	8.0	2.50	2.75
J TMV-p	MT20	3.0	4.0		
L BMVW-1	MT20	5.0	6.0	2.50	2.75
M BMW-1	MT20	5.0	6.0	2.50	1.50
N BS-1	MT20	3.0	6.0		
O BMW-1	MT20	4.0	4.0		
P BMW-1	MT20	4.0	4.0		
Q BMW-1	MT20	4.0	4.0		
R BS-1	MT20	3.0	6.0		
S BMW-1	MT20	5.0	6.0		
T BMV-1	MT20	3.0	4.0		

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	0	5-8
T	HORZ	HORZ	0	5-8
L		UPLIFT	0	5-8

UNFACTORED REACTIONS

	1ST LCASE	MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
T		910 / 0	0 / 0	0 / 0	0 / 0	458 / 0	0 / 0
L		910 / 0	0 / 0	0 / 0	0 / 0	458 / 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 = 4.13 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING
 TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8 0.12 (1)	10.00	S-C	-215 / 25	0.08 (1)	
B-C	-2168 / 0	-91.8 -91.8 0.51 (1)	4.13	C-Q	-389 / 0	0.48 (1)	
C-D	-1888 / 0	-91.8 -91.8 0.47 (1)	4.41	Q-D	0 / 350	0.08 (1)	
D-E	-1889 / 0	-91.8 -91.8 0.24 (1)	4.87	D-P	0 / 361	0.08 (1)	
E-F	-1889 / 0	-91.8 -91.8 0.24 (1)	4.87	P-E	-473 / 0	0.28 (1)	
F-G	-1912 / 0	-91.8 -91.8 0.43 (1)	4.44	P-F	0 / 237	0.05 (1)	
G-H	-1776 / 0	-91.8 -91.8 0.04 (1)	5.00	O-F	0 / 437	0.10 (1)	
H-I	-2128 / 0	-91.8 -91.8 0.15 (1)	4.85	O-G	-494 / 0	0.58 (1)	
I-J	0 / 13	-91.8 -91.8 0.10 (1)	10.00	M-H	0 / 1015	0.23 (1)	
J-K	0 / 35	-91.8 -91.8 0.12 (1)	10.00	M-I	0 / 200	0.04 (1)	
T-B	-1890 / 0	0.0 0.0 0.19 (1)	6.10	B-S	0 / 1862	0.42 (1)	
L-J	-243 / 0	0.0 0.0 0.03 (1)	7.81	I-L	-2305 / 0	0.70 (1)	
				G-M	-1039 / 0	0.48 (1)	
T-S	0 / 0	-18.5 -18.5 0.15 (4)	10.00				
S-R	0 / 1832	-18.5 -18.5 0.38 (1)	10.00				
R-Q	0 / 1832	-18.5 -18.5 0.38 (1)	10.00				
Q-P	0 / 1542	-18.5 -18.5 0.30 (1)	10.00				
P-O	0 / 1596	-18.5 -18.5 0.32 (1)	10.00				
O-N	0 / 1553	-18.5 -18.5 0.40 (1)	10.00				
N-M	0 / 1553	-18.5 -18.5 0.40 (1)	10.00				
M-L	0 / 1613	-18.5 -18.5 0.35 (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. O/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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

THIS DESIGN COMPLIES WITH:
 - PART 9 OF CBC 2018, CBC 2012, ABC 2019
 - PART 9 OF CBC 2012 (2019 AMENDMENT)
 - CSA 088-08, CSA 088-14
 - TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.09")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
 ALLOWABLE DEFL.(TL) = L/360 (1.09")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.17")

CSK: TC=0.81/1.00 (B-C:1), BC=0.40/1.00 (M-O:1), WB=0.70/1.00 (I-L:1), SS=0.22/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

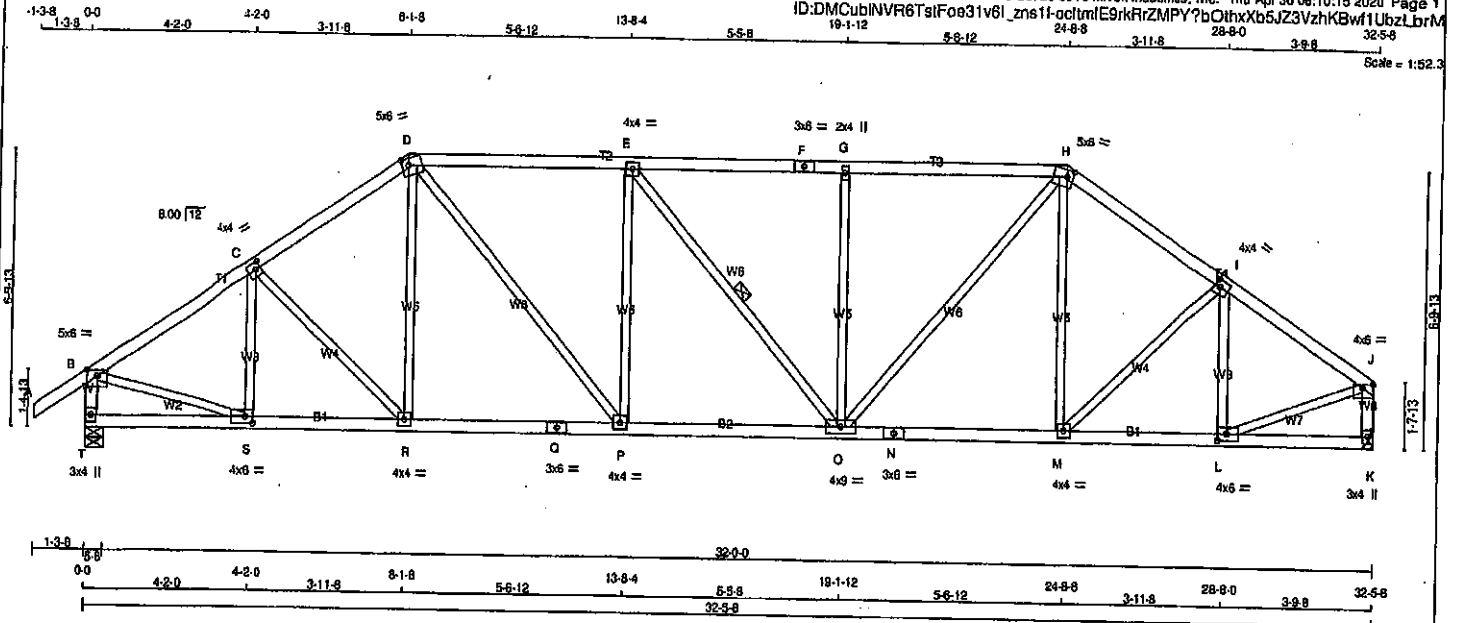
JSI GRIP- 0.89 (I) (INPUT = 0.90)
 JSI METAL- 0.88 (N) (INPUT = 1.00)



Structural component only
 DWG# T-2007921

JOB NAME 408313	TRUSS NAME T34	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - J	2x4	DRY	No.2
T - B	2x4	DRY	No.2
K - J	2x4	DRY	No.2
T - Q	2x4	DRY	No.2
Q - N	2x4	DRY	No.2
N - K	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	MT20	5.0	6.0	1.75	3.00
C	TMWV-w	MT20	4.0	4.0	2.00	1.50
D	TTWV-m	MT20	5.0	6.0	2.00	2.00
E	TMWV-i	MT20	4.0	4.0	2.00	2.00
F	TS-1	MT20	3.0	8.0		
G	TMW-w	MT20	2.0	4.0		
H	TTWV-m	MT20	5.0	6.0	2.00	1.75
I	TMWV-i	MT20	4.0	4.0	2.00	1.50
J	TMWV-p	MT20	4.0	6.0	1.00	3.25
K	BMV1-p	MT20	3.0	4.0		
L	BMWV-i	MT20	4.0	6.0	2.00	2.50
M	P-R					
N	BMWV-i	MT20	4.0	4.0		
O	BS-1	MT20	3.0	6.0		
Q	BMWV-w	MT20	4.0	6.0		
S	BS-1	MT20	3.0	6.0		
T	BMV1-p	MT20	4.0	6.0	2.00	2.25

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT 1915	DOWN 0	0	0
T	HORIZ 0	HORIZ 1915	0	0
K	VERT 1789	DOWN 0	0	0

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
T	1352	901/0	0/0	0/0	0/0	451/0	0/0
K	1285	830/0	0/0	0/0	0/0	435/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.06 FT.

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

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)
FR-TO				FR-TO			
A-B	0/35	-91.8	0.12 (1)	S-C	-377/0	0.10 (1)	10.00
B-C	-2058/0	-91.8	0.32 (1)	C-R	-73/0	0.04 (1)	4.42
C-D	-2045/0	-91.8	0.31 (1)	R-D	0/145	0.04 (4)	4.43
D-E	-2218/0	-91.8	0.50 (1)	D-P	0/827	0.19 (1)	4.06
E-F	-2199/0	-91.8	0.50 (1)	P-E	-527/0	0.41 (1)	4.08
F-G	-2199/0	-91.8	0.50 (1)	E-O	-29/0	0.01 (1)	4.08
G-H	-2199/0	-91.8	0.49 (1)	O-G	-547/0	0.43 (1)	4.09
H-I	-1951/0	-91.8	0.28 (1)	O-H	0/879	0.20 (1)	4.52
I-J	-1695/0	-91.8	0.26 (1)	M-H	0/86	0.03 (4)	4.61
T-B	-1679/0	0.0	0.19 (1)	M-I	0/43	0.01 (1)	6.12
K-J	-1756/0	0.0	0.19 (1)	L-I	-493/0	0.13 (1)	6.29
T-S	0/0	-18.5	0.07 (4)	B-S	0/1789	0.40 (1)	10.00
S-R	0/1731	-18.5	0.33 (1)	L-J	0/1591	0.38 (1)	10.00
R-Q	0/1681	-18.5	0.33 (1)				
Q-P	0/1681	-18.5	0.33 (1)				
P-O	0/2218	-18.5	0.41 (1)				
O-N	0/1628	-18.5	0.32 (1)				
N-M	0/1828	-18.5	0.32 (1)				
M-L	0/1598	-18.5	0.31 (1)				
L-K	0/0	-18.5	0.08 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

(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 (1.08")

CALCULATED VERT. DEFL.(LL) = L/899 (0.10")

ALLOWABLE DEFL.(TL) = L/360 (1.08")

CALCULATED VERT. DEFL.(TL) = L/899 (0.19")

CSI: TC=0.50/1.00 (D-E:1), BC=0.41/1.00 (O-P:1), WB=0.43/1.00 (G-O:1), SS=0.24/1.00 (D-E:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

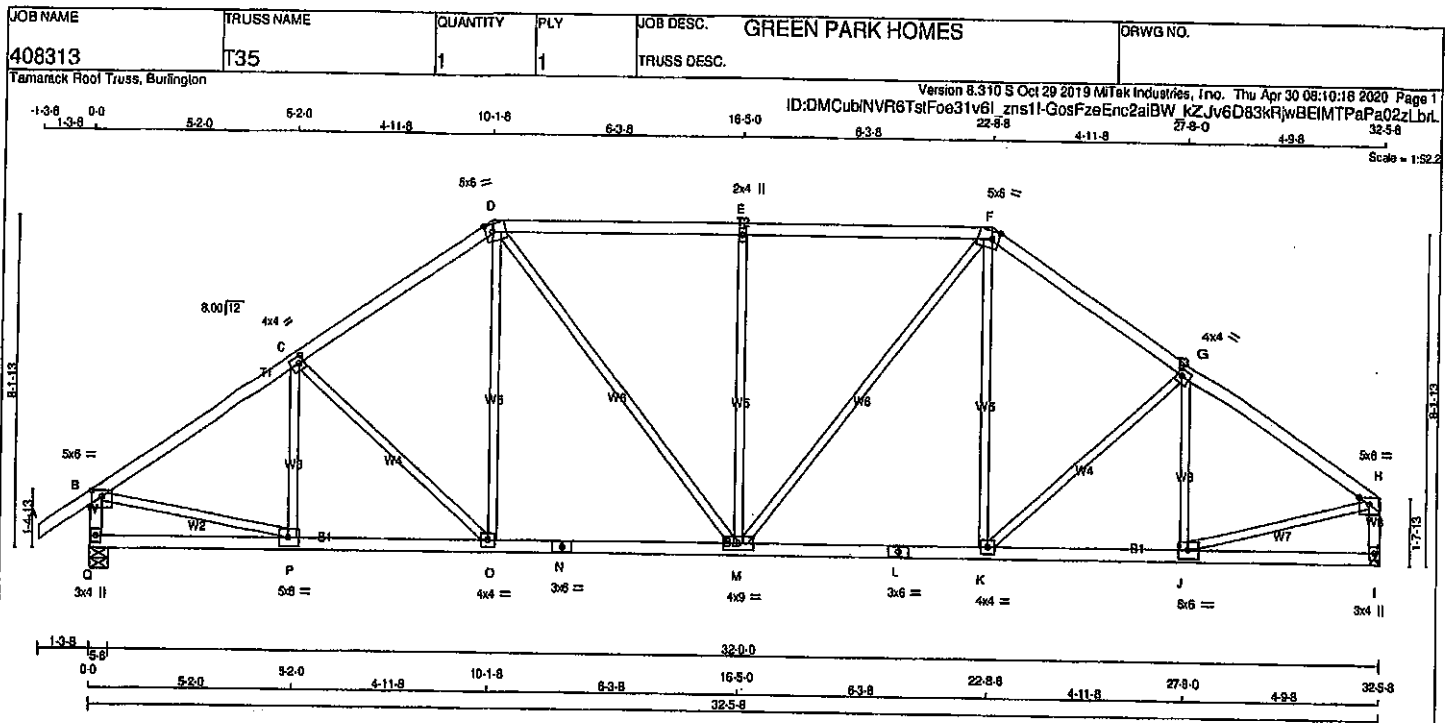
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (D) (INPUT = 0.90)

JSI METAL= 0.52 (D) (INPUT = 1.00)



Structural component only
DWG# T-2007922



LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.75	3.00
C	TMVW-t	MT20	4.0	4.0	2.00	1.50
D	TMVW-m	MT20	5.0	6.0	2.25	2.00
E	TMVW-w	MT20	2.0	4.0		
F	TMVW-m	MT20	5.0	6.0	2.25	2.00
G	TMVW-t	MT20	4.0	4.0	2.00	1.50
H	TMVW-p	MT20	5.0	6.0	Edge	
I	BMV1+p	MT20	3.0	4.0		
J	BMVW-t	MT20	5.0	6.0		
K	BMVW-t	MT20	4.0	4.0		
L	BS-t	MT20	3.0	6.0		
M	BMVW-t	MT20	4.0	9.0		
N	BS-t	MT20	3.0	6.0		
O	BMVW-t	MT20	4.0	4.0		
P	BMVW-t	MT20	5.0	6.0		
Q	BMV1+p	MT20	3.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
Q	1915 0	1915 0	5-8	5-8
I	1789 0	1789 0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
Q	1352	901 / 0	0 / 0	0 / 0	0 / 0	0 / 0	451 / 0	0 / 0
I	1265	830 / 0	0 / 0	0 / 0	0 / 0	0 / 0	435 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.27 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8	0.12 (1)	10.00	P-C	-277 / 0	0.10 (1)
B-C	-2117 / 0	-91.8 -91.8	0.37 (1)	4.33	C-O	-259 / 0	0.22 (1)
C-D	-1948 / 0	-91.8 -91.8	0.36 (1)	4.49	O-D	0 / 280	0.08 (1)
D-E	-1910 / 0	-91.8 -91.8	0.53 (1)	4.27	D-M	0 / 502	0.11 (1)
E-F	-1910 / 0	-91.8 -91.8	0.53 (1)	4.27	M-E	-708 / 0	0.91 (1)
F-G	-1907 / 0	-91.8 -91.8	0.33 (1)	4.56	M-F	0 / 555	0.12 (1)
G-H	-1987 / 0	-91.8 -91.8	0.33 (1)	4.48	K-F	0 / 213	0.05 (4)
H-I	-1873 / 0	0.0 0.0	0.19 (1)	6.13	K-G	-168 / 0	0.14 (1)
I-H	-1751 / 0	0.0 0.0	0.19 (1)	8.30	J-G	-374 / 0	0.13 (1)
Q-P	0 / 0	-18.5 -18.5	0.10 (4)	10.00	S-P	0 / 1824	0.41 (1)
P-O	0 / 1785	-18.5 -18.5	0.35 (1)	10.00	J-H	0 / 1741	0.39 (1)
O-N	0 / 1596	-18.5 -18.5	0.33 (1)	10.00			
N-M	0 / 1596	-18.5 -18.5	0.33 (1)	10.00			
M-L	0 / 1583	-18.5 -18.5	0.33 (1)	10.00			
L-K	0 / 1583	-18.5 -18.5	0.33 (1)	10.00			
K-J	0 / 1678	-18.5 -18.5	0.34 (1)	10.00			
J-I	0 / 0	-18.5 -18.5	0.09 (4)	10.00			

TOTAL WEIGHT = 143 LB

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2015, CBC 2012, ABC 2010
- PART 9 OF CBC 2012 (2015 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPI 2011, TPI 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 (1.08")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (1.08")
CALCULATED VERT. DEFL.(TL) = 1/999 (0.18")

CSI: TC=0.53/1.00 (E-F:1), BC=0.35/1.00 (O-P:1), WB=0.91/1.00 (E-M:1), SSI=0.28/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.90 (J) (INPUT = 0.90)
JSI METAL = 0.51 (L) (INPUT = 1.00)

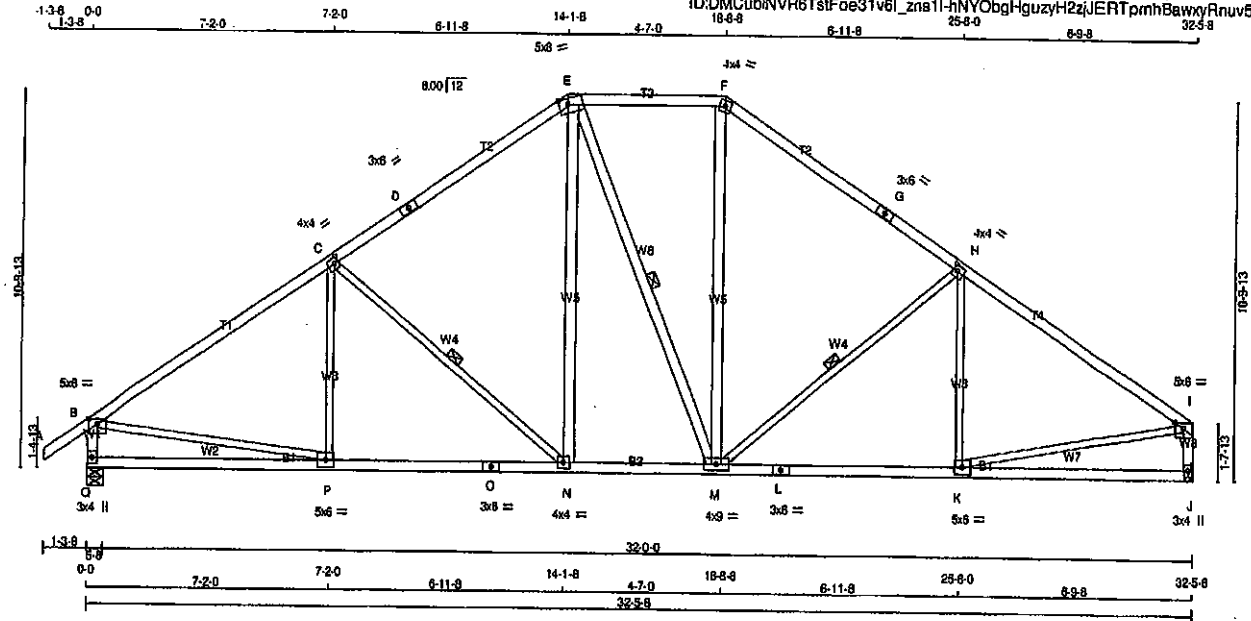


Structural component only
DWG# T-2007923

JOB NAME 408313	TRUSS NAME T37	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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Scale = 1:80.0

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	1.75	3.00
C	TMVW-t	MT20	4.0	4.0	2.00	1.50
D	TS-I	MT20	3.0	8.0		
E	TTW-m	MT20	5.0	8.0	2.00	3.00
F	TTW-m	MT20	4.0	4.0		
G	TS-I	MT20	3.0	8.0		
H	TMVW-t	MT20	4.0	4.0	2.00	1.50
I	TMVW-p	MT20	5.0	8.0	Edge	
J	BMV1-p	MT20	3.0	4.0		
K	BMVW-t	MT20	5.0	8.0		
L	BS-I	MT20	3.0	8.0		
M	BMVW-t	MT20	4.0	9.0		
N	BMVW-t	MT20	4.0	4.0		
O	BS-I	MT20	3.0	8.0		
P	BMVW-t	MT20	5.0	8.0		
Q	BMV1-p	MT20	3.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
Q	1915	0	1915	0
J	1789	0	1789	0

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

UNFACTORED REACTIONS

JT	1ST LC CASE	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
Q	COMBINED	901 / 0	0 / 0	0 / 0	451 / 0	0 / 0
J	COMBINED	830 / 0	0 / 0	0 / 0	436 / 0	0 / 0

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

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-N, E-M, H-M.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO				FR-TO			
A-B	0 / 35	-91.8	-81.8 0.12 (1)	10.00	P-C	-123 / 79	0.07 (1)
B-C	-2140 / 0	-91.8	-81.8 0.79 (1)	3.75	C-N	-597 / 0	0.35 (1)
C-D	-1876 / 0	-91.8	-81.8 0.70 (1)	4.24	N-E	0 / 477	0.08 (1)
D-E	-1876 / 0	-91.8	-81.8 0.70 (1)	4.24	E-M	-20 / 0	0.01 (1)
E-F	-1355 / 0	-91.8	-81.8 0.27 (1)	5.28	M-F	0 / 449	0.07 (1)
F-G	-1885 / 0	-91.8	-81.8 0.66 (1)	4.30	M-H	-514 / 0	0.30 (1)
G-H	-1885 / 0	-91.8	-81.8 0.66 (1)	4.30	K-H	-197 / 50	0.12 (1)
H-I	-2054 / 0	-91.8	-81.8 0.71 (1)	3.92	B-P	0 / 1837	0.41 (1)
Q-B	-1802 / 0	0.0	0.0 0.19 (1)	8.15	K-I	0 / 1779	0.40 (1)
J-I	-1739 / 0	0.0	0.0 0.18 (1)	6.32			
Q-P	0 / 0	-18.5	-18.5 0.24 (4)	10.00			
P-O	0 / 1817	-18.5	-18.5 0.41 (1)	10.00			
O-N	0 / 1817	-18.5	-18.5 0.41 (1)	10.00			
N-M	0 / 1363	-18.5	-18.5 0.29 (1)	10.00			
M-L	0 / 1745	-18.5	-18.5 0.39 (1)	10.00			
L-K	0 / 1745	-18.5	-18.5 0.39 (1)	10.00			
K-J	0 / 0	-18.5	-18.5 0.22 (4)	10.00			

TOTAL WEIGHT = 4 X 155 = 622 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, 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 086-09, CSA 086-14
- TFC 2011, TFC 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 (1.08")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (1.08")
CALCULATED VERT. DEFL.(TL) = L/999 (0.17")

CSI: TC=0.79/1.00 (B-C:1), BC=0.41/1.00 (N-P:1), WB=0.41/1.00 (B-P: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 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

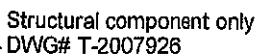
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (B) (INPUT = 0.90)
JSI METAL= 0.62 (C) (INPUT = 1.00)



Structural component only
DWG# T-2007925

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170-12 3-11-6 21-02 52-6 262-8 5-78 31-10-3 33-18
2, 1-38 Scale: 1:50



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408313	T39	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Thu Apr 30 08:10:22 2020 Page 2
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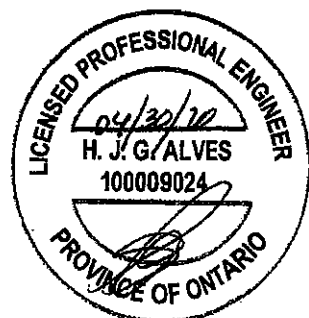
PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	Edge	
C	TTWW+m	MT20	7.0	8.0	Edge 2.50	
D	TMWW-t	MT20	4.0	4.0		
E	TMW+vv	MT20	2.0	4.0		
F	TS-t	MT20	3.0	8.0		
G	TMWW-t	MT20	4.0	4.0		
H	TTWW+m	MT20	7.0	8.0	Edge 2.50	
I	TMVW-p	MT20	5.0	8.0	Edge	
K	BMV1+p	MT20	3.0	6.0		
L, M, Q, R						
L	BMWW-t	MT20	5.0	8.0	2.50	2.50
N	BS-t	MT20	5.0	8.0		
O	BMWWW-t	MT20	5.0	8.0		
P	BS-t	MT20	5.0	8.0		
S	BMV1+p	MT20	3.0	6.0		

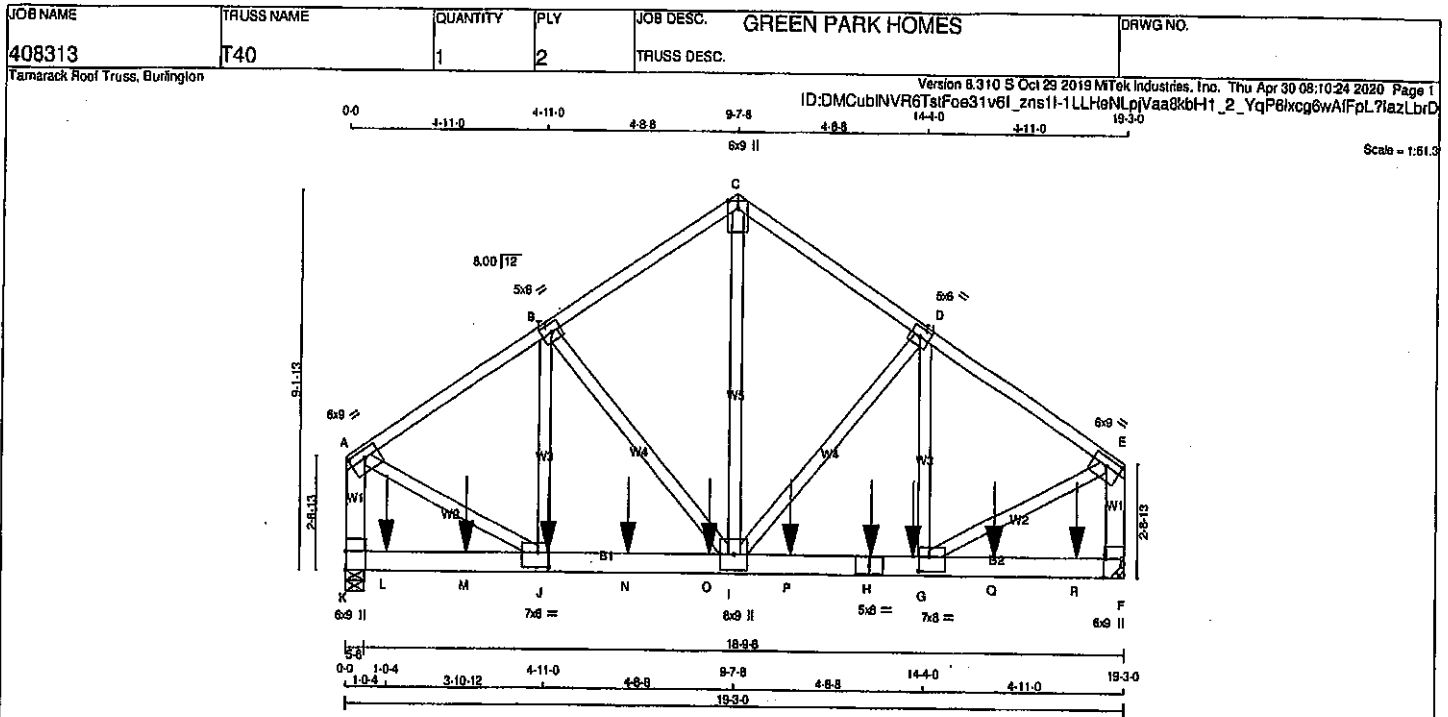
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

CONNECTION REQUIREMENTS

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



Structural component only
DWG# T-2007927



CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
C - E	2x4	DRY No.2	SPF
K - A	2x6	DRY No.2	SPF
F - E	2x6	DRY No.2	SPF
K - H	2x8	DRY 2100F 1.8E	SPF
H - F	2x8	DRY 2100F 1.8E	SPF

ALL WEBS 2x4 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C 1 12		TOP
C - E 1 12		TOP
K - A 2 12		TOP
F - E 2 12		TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
K - H 2 12		SIDE (197.8)
H - F 2 12		SIDE (197.8)
WEBS : (0.122"x3") SPIRAL NAILS		
D - G 1 8		SIDE (264.2)
B - J 1 8		SIDE (264.2)
2x4 1 8		

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	JT	HORZ	JT	HORZ	UP/LN	IN-SX	UP/LN	IN-SX
K	9804	0	9804	0	0	5-8	5-8	5-8	5-8
F	10027	0	10027	0	0	MECHANICAL			

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
K	6925	4592 / 0	0 / 0	0 / 0	0 / 0	2332 / 0	0 / 0
F	7082	4897 / 0	0 / 0	0 / 0	0 / 0	2365 / 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 = 3.03 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MAX. (PLF)	MAX. CS (LC)	MEMB.	FORCE (LBS)	MAX. CS (LC)
FR-TO		FROM	TO	UNBRAC LENGTH	FR-TO		
A-B	-8226 / 0	-91.8	-91.8	0.54 (1)	1-C	0 / 7246	0.84 (1)
B-C	-8669 / 0	-91.8	-91.8	0.41 (1)	1-D	-2348 / 0	0.86 (1)
C-D	-8668 / 0	-91.8	-91.8	0.40 (1)	G-D	0 / 2282	0.20 (1)
D-E	-8638 / 0	-91.8	-91.8	0.57 (1)	B-I	-1816 / 0	0.66 (1)
K-A	-8013 / 0	0.0	0.0	0.38 (1)	5-31	0 / 1646	0.15 (1)
F-E	-8404 / 0	0.0	0.0	0.40 (1)	5-20	A-J	0 / 7595
						G-E	0 / 7973
							0.70 (1)
K-L	0 / 0	-18.5	-18.5	0.36 (1)	10.00		
L-M	0 / 0	-18.5	-18.5	0.38 (1)	10.00		
M-J	0 / 0	-18.5	-18.5	0.38 (1)	10.00		
J-N	0 / 6863	-18.5	-18.5	0.51 (1)	10.00		
N-O	0 / 6863	-18.5	-18.5	0.51 (1)	10.00		
O-I	0 / 6863	-18.5	-18.5	0.51 (1)	10.00		
I-P	0 / 7205	-18.5	-18.5	0.57 (1)	10.00		
P-H	0 / 7205	-18.5	-18.5	0.57 (1)	10.00		
H-G	0 / 7205	-18.5	-18.5	0.57 (1)	10.00		
Q-Q	0 / 0	-18.5	-18.5	0.38 (1)	10.00		
Q-R	0 / 0	-18.5	-18.5	0.38 (1)	10.00		
R-F	0 / 0	-18.5	-18.5	0.38 (1)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC	LC1	MAX	MAX	FACE	DIR.	TYPE	HEEL	CONN.
G	14-0-12	-1771	-1771	---	FRONT	VERT	TOTAL	---	C1
H	13-0-4	-1771	-1771	---	FRONT	VERT	TOTAL	---	C1
J	5-0-4	-1771	-1771	---	FRONT	VERT	TOTAL	---	C1
L	1-0-4	-1771	-1771	---	FRONT	VERT	TOTAL	---	C1
M	3-0-4	-1771	-1771	---	FRONT	VERT	TOTAL	---	C1
N	7-0-4	-1771	-1771	---	FRONT	VERT	TOTAL	---	C1
O	9-0-4	-1771	-1771	---	FRONT	VERT	TOTAL	---	C1
P	11-0-4	-1771	-1771	---	FRONT	VERT	TOTAL	---	C1
Q	18-0-12	-1771	-1771	---	FRONT	VERT	TOTAL	---	C1
R	18-0-12	-1771	-1771	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 118 = 235 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

- PART 9 OF OBC 2012 (2019 AMENDMENT)

- CSA 086-09, CSA 088-14

- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (0.84")

CALCULATED VERT. DEFL. (LL) = 1/999 (0.08")

ALLOWABLE DEFL. (TL) = L/360 (0.84")

CALCULATED VERT. DEFL. (TL) = 1/999 (0.17")

CSI: TC=0.57/1.00 (D-E-I), BC=0.57/1.00 (G-H-I),

WB=0.88/1.00 (D-I-I), SS=0.78/1.00 (H-J-I)

DOL LUMBER-1.00 NAIL-1.00 LS BEND-1.00

COMP=1.00 SHEAR-1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE GRIP (DRY) SHEAR SECTION

(PSI) (PL) (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= 0.89 (E) (INPUT = 0.90)

JSI METAL= 0.93 (H) (INPUT = 1.00)



Structural component only
DWG# T-2007928

CONTINUED ON PAGE 2

JOB NAME 408313	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. Thu Apr 30 09:10:24 2020 Page 2 ID:DMCubINVR6TsFoe31v6l zns1l-1LLHeNLqVaa8kbH1 2 YgP6lxcq6wAIFoL?lazLbrD	

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMWW-I	MT20	6.0	9.0	2.25	4.50
B	TMWW-I	MT20	5.0	8.0		
C	1TW-p	MT20	6.0	9.0	Edge	
D	TMWW-t	MT20	5.0	8.0		
E	TMWW-I	MT20	6.0	9.0	2.25	4.50
F	BMV1-t	MT20	6.0	9.0	Edge	0.50
G	BMWW-I	MT20	7.0	8.0	4.25	3.25
H	BS-I	MT20	5.0	8.0		
I	BMWWW-I	MT20	8.0	9.0		
J	BMWW-I	MT20	7.0	8.0	4.25	3.25
K	BMV1-t	MT20	6.0	9.0	5.50	

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

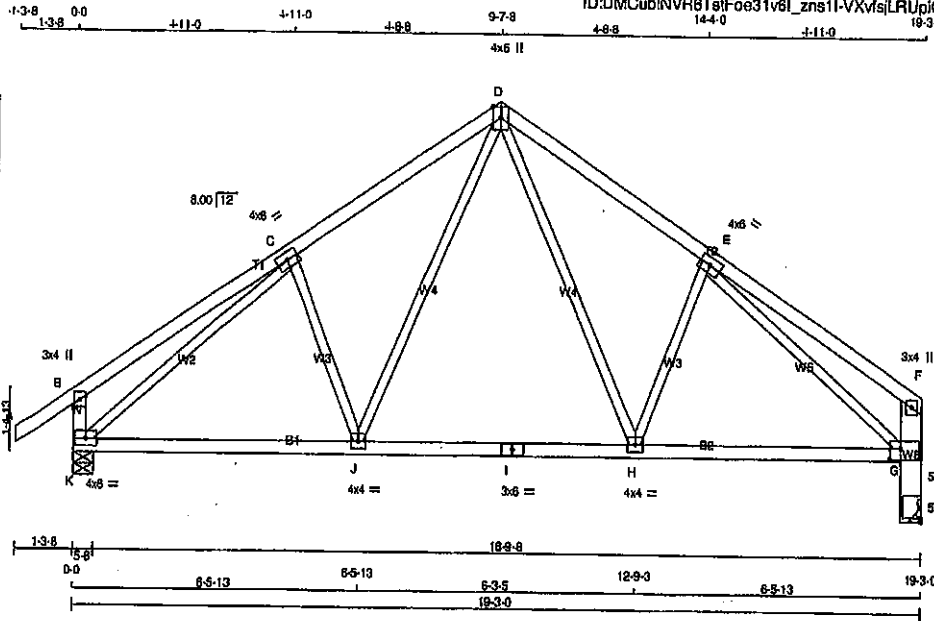


Structural component only
DWG# T-2007928

JOB NAME 408313	TRUSS NAME T41	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					

Yamarrack Roof Truss, Burlington

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ID:DMCubINVR8TatFoe31v6I_zns11-VXvslLRUpICmuATbld42xKTL1zMYoUT4Zr0zLbrC



Scale = 1:47.0

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMV+p	MT20	3.0	4.0		
C TMWW-t	MT20	4.0	6.0		
D TTWW+p	MT20	4.0	6.0	Edge	
E TMWW-t	MT20	4.0	6.0		
F TMV+p	MT20	3.0	4.0		
G BVMW-t	MT20	5.0	6.0	3.00	3.00
H BVMW-t	MT20	4.0	4.0		
I BS-t	MT20	3.0	6.0		
J BVMW-t	MT20	4.0	4.0		
K BVMW-t	MT20	4.0	6.0		
L EBSF-t	MT20	5.0	6.0		1.00

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

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
K	1187	0	1187	0
L	1061	0	1061	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX	MIN	COMPONENT REACTIONS
	COMBINED	SNOW	LIVE	PERMATIVE
K	837	583 / 0	0 / 0	0 / 0
L	750	492 / 0	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 = 5.64 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.

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC)	UNBRACED LENGTH	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC)
FR-TO											
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00		D-H	0 / 424	0.10 (1)		
B-C	0 / 29	-91.8	-91.8	0.34 (1)	10.00		H-E	-282 / 0	0.10 (1)		
C-D	-1040 / 0	-91.8	-91.8	0.38 (1)	5.84		J-D	0 / 424	0.10 (1)		
D-E	-1040 / 0	-91.8	-91.8	0.38 (1)	5.84		C-J	-282 / 0	0.10 (1)		
E-F	0 / 29	-91.8	-91.8	0.34 (1)	10.00		K-C	-282 / 0	0.91 (1)		
K-B	-293 / 0	0.0	0.0	0.03 (1)	7.81		E-G	-1268 / 0	0.87 (1)		
L-G	-1061 / 0	0.0	0.0	0.00 (1)	7.81						
G-F	-167 / 0	0.0	0.0	0.01 (1)	7.81						
K-J	0 / 946	-18.5	-18.5	0.25 (4)	10.00						
J-I	0 / 678	-18.5	-18.5	0.23 (4)	10.00						
I-H	0 / 678	-18.5	-18.5	0.23 (4)	10.00						
H-G	0 / 946	-18.5	-18.5	0.25 (4)	10.00						

TOTAL WEIGHT = 86 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL. (LL) = $L/360$ (0.64")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.03")
ALLOWABLE DEFL. (TL) = $L/360$ (0.64")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.08")

CSI: TC=0.38/1.00 (C-D:1), BC=0.25/1.00 (J-K:4), WB=0.91/1.00 (C-K:1), SS=0.18/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE LEFT HEEL ONLY

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

NAIL VALUES

PLATE GRIP (DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX	MIN	MAX
618	354	1657
788	1997	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

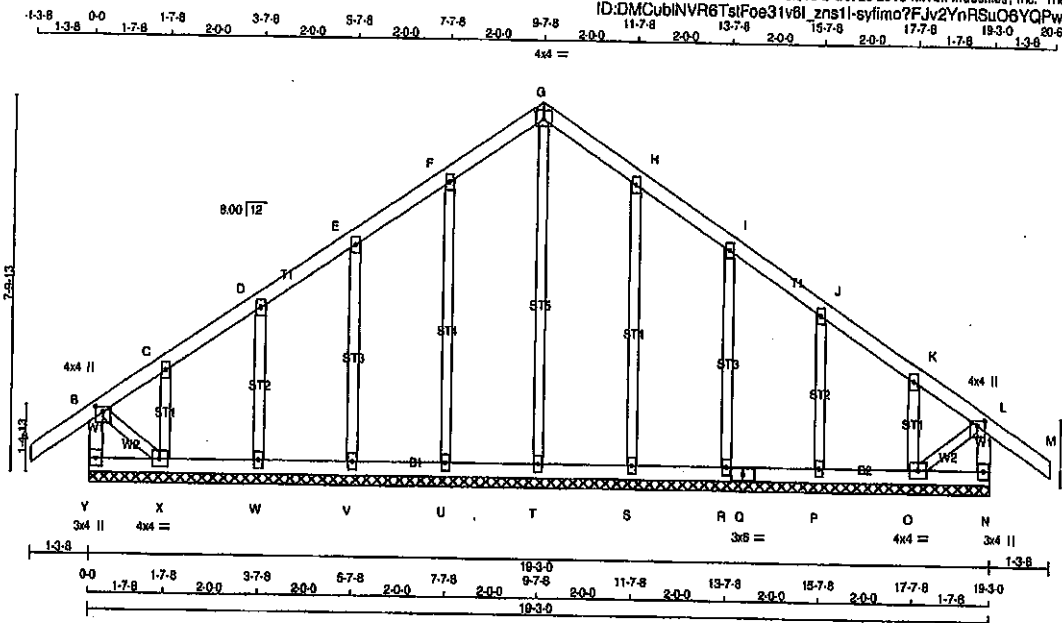
JSI GRIP = 0.90 (E) (INPUT = 0.90)
JSI METAL = 0.33 (C) (INPUT = 1.00)



Structural component only
DWG# T-2007929

JOB NAME 408313	TRUSS NAME G42	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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ID:DMCubINVR6TstFoe31v6I_zns1l-syimo7FJv2YnRSu06YQPwERpfApYREXpSZXJCzLbr



Scale = 1:44.3

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - G	2x4	DRY	No.2	SPF
G - M	2x4	DRY	No.2	SPF
Y - B	2x4	DRY	No.2	SPF
N - L	2x4	DRY	No.2	SPF
Y - Q	2x4	DRY	No.2	SPF
Q - N	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				
GABLE STUDS SPACED AT 2-0-0 OC.				

PLATES (table in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMW+p	MT20	4.0	4.0	1.25 2.00
C, D, E, F, H, I, J, K				
C TMW+w	MT20	2.0	4.0	
G TTW+p	MT20	4.0	4.0	2.25 2.00
L TMW+p	MT20	4.0	4.0	1.25 2.00
N BMV1+p	MT20	3.0	4.0	
O BMW1+t	MT20	4.0	4.0	
P, R, S, T, U, V, W				
P BMW1+w	MT20	2.0	4.0	
Q BS+t	MT20	3.0	6.0	
X BMWV1+t	MT20	4.0	4.0	
Y BMV1+p	MT20	3.0	4.0	

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER
BEARINGS
 THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
 THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)
BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
 ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

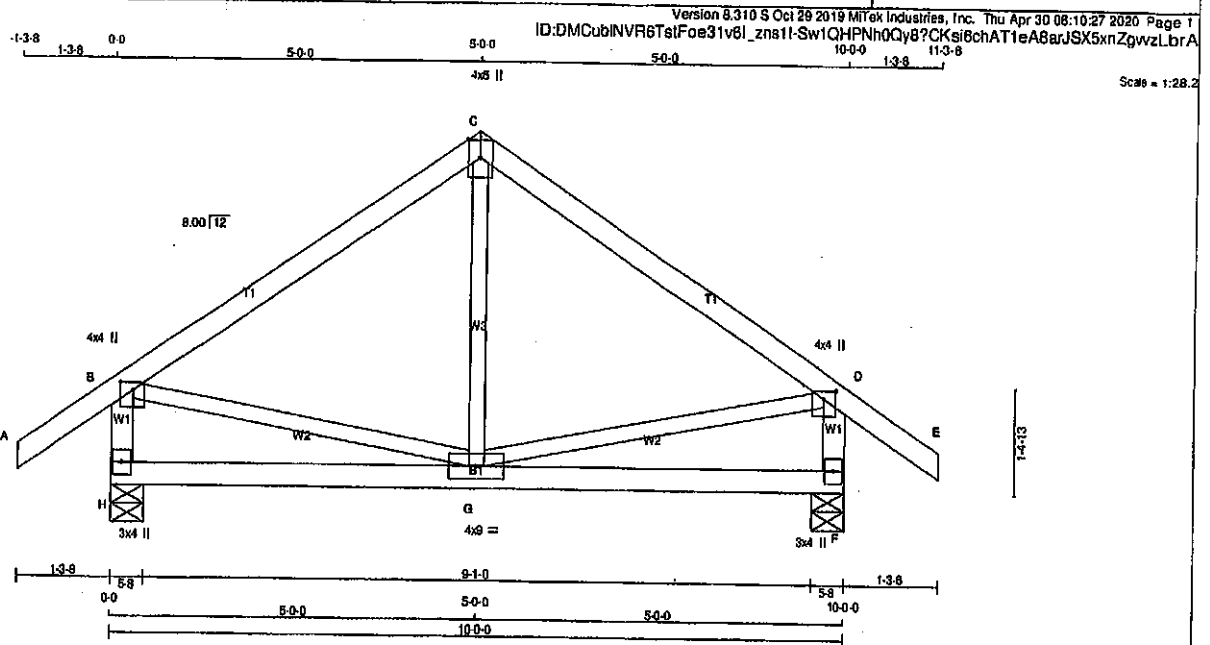
LOADING				
TOTAL LOAD CASES: (4)				
CHORDS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MAX. FACTORED FORCE (LBS)
FR-TO				
A-B	0/35	-91.8	10.00	-139/0
B-C	-57/0	-91.8	6.25	-209/0
C-D	-19/0	-91.8	6.25	-173/0
D-E	-22/0	-91.8	6.25	-198/0
E-F	-13/0	-91.8	6.25	-99/0
F-G	-23/0	-91.8	6.25	-209/0
G-H	-23/0	-91.8	6.25	-173/0
H-I	-13/0	-91.8	6.25	-198/0
I-J	-22/0	-91.8	6.25	-99/0
J-K	-19/0	-91.8	6.25	0/30
K-L	-57/0	-91.8	6.25	0/30
L-M	0/35	-91.8	10.00	
Y-B	-279/0	0.0	7.81	
N-L	-279/0	0.0	7.81	
Y-X	0/0	-18.5	10.00	
X-W	0/21	-18.5	10.00	
W-V	0/16	-18.5	10.00	
V-U	0/14	-18.5	10.00	
U-T	0/11	-18.5	10.00	
T-S	0/11	-18.5	10.00	
S-R	0/14	-18.5	10.00	
R-Q	0/18	-18.5	10.00	
Q-P	0/18	-18.5	10.00	
P-O	0/21	-18.5	10.00	
O-N	0/0	-18.5	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 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.
 (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: TO=0.12/1.00 (A-B:1), BC=0.02/1.00 (W-X:4), WS=0.18/1.00 (G-T:1), SS=0.08/1.00 (A-B:1)
 OOL 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 768 1967 1856
 PLATE PLACEMENT TOL. = 0.250 inches
 PLATE ROTATION TOL. = 5.0 Deg.
 JSI GRIP = 0.51 (X) (INPUT = 0.90)
 JSI METAL = 0.11 (F) (INPUT = 1.00)



Structural component only
 DWG# T-2007908

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408313	T43	1	1	GREEN PARK HOMES	
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
H - B	2x4	DRY	No.2
F - D	2x4	DRY	No.2
H - F	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.25 2.00
C	TTW+p	MT20	4.0	6.0	Edge
D	TMVW+p	MT20	4.0	4.0	1.25 2.00
F	BMV1+p	MT20	3.0	4.0	
G	BMWWW-I	MT20	4.0	9.0	
H	BMV1+p	MT20	3.0	4.0	

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
H	1052	0	1052	0	0	5-8	5-8	5-8	5-8
F	1052	0	1052	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
H	777	326 / 0	0 / 0	0 / 0	0 / 0	450 / 0	0 / 0
F	777	326 / 0	0 / 0	0 / 0	0 / 0	450 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.21 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	FORCE (LBS)	MAX. UNBRACED LENGTH (FR-TO)	MAX. FACTORED (LC)
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8	-91.8 0.15 (1)	10.00	G-C	0 / 471	0.16 (4)
B-C	-707 / 0	-91.8	-91.8 0.50 (1)	8.21	B-G	0 / 602	0.16 (4)
C-D	-707 / 0	-91.8	-91.8 0.50 (1)	8.21	G-D	0 / 602	0.16 (4)
D-E	0 / 35	-91.8	-91.8 0.15 (1)	10.00			
H-B	-875 / 0	0.0	0.0 0.11 (1)	7.81			
F-D	-875 / 0	0.0	0.0 0.11 (1)	7.81			
H-G	0 / 0	-93.5	-93.5 0.73 (4)	10.00			
G-F	0 / 0	-93.5	-93.5 0.73 (4)	10.00			

TOTAL WEIGHT = 42 lb (M)

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

*** 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, 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
- TPOC 2011, TPOC 2014

(56 % 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 (0.33")
CALCULATED VERT. DEFL. (LL) = L/999 (0.00")
ALLOWABLE DEFL. (TL) = L/360 (0.33")
CALCULATED VERT. DEFL. (TL) = L/999 (0.07")

CSI: TC=0.50/1.00 (B-C:1), BC=0.73/1.00 (G-H:4), WB=0.18/1.00 (C-G:4), SS=0.43/1.00 (G-H:4)

DOL LUMBER=0.93 NAIL=0.93 LS BEND=1.00
COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP (DRY)	SHEAR	SECTION
(PSI)	(PL)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 788	1967 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

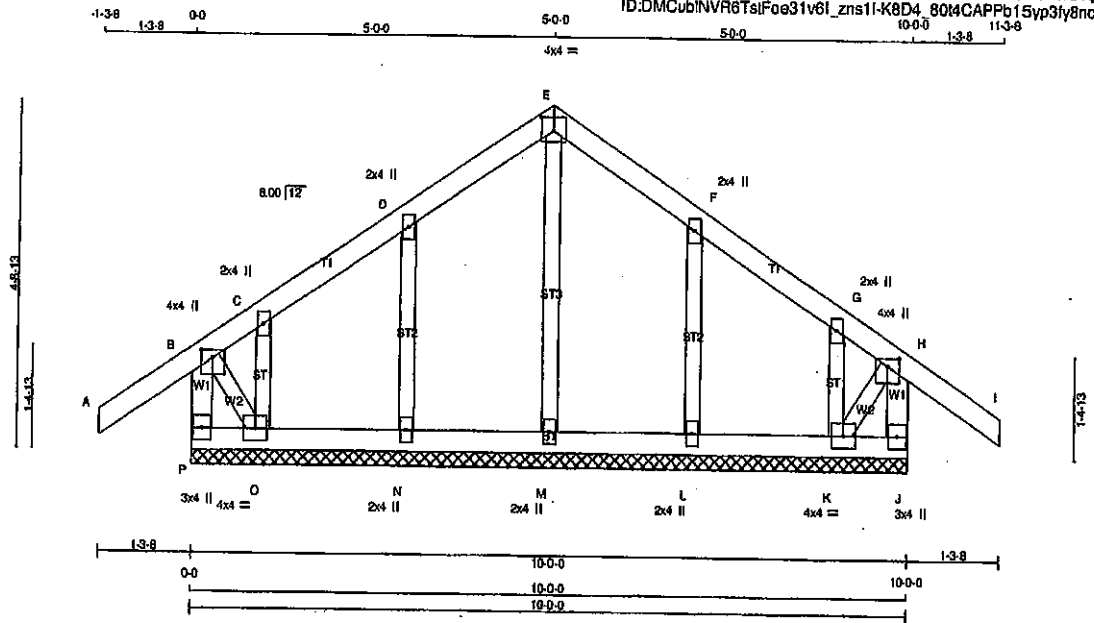
JSI GRIP = 0.77 (B) (INPUT = 0.90)
JSI METAL = 0.23 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007930

JOB NAME 408313	TRUSS NAME G43	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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 ID:DMCubINVR8TslFoe31v6l_zns1l-K8D4_80M4CAPb15yp31y8ncZ2W2Hw8g26I4rezLbre



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

LUMBER					
N. L. G. A. RULES					
CHORDS		SIZE		LUMBER	DESCR
P - B	2x4	DRY	No.2		SPF
A - E	2x4	DRY	No.2		SPF
E - I	2x4	DRY	No.2		SPF
J - H	2x4	DRY	No.2		SPF
P - J	2x4	DRY	No.2		SPF
ALL WEBS		2x3	DRY	No.2	
ALL GABLE WEBS				No.2	SPF
		2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.					
GABLE STUDS SPACED AT 2'-0" OC.					

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

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

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

TOTAL WEIGHT = 43 lb

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
C, D, F, G						
C	TMVW+w	MT20	2.0	4.0		
E	TTW+p	MT20	4.0	4.0	2.25	2.00
H	TMVW+p	MT20	4.0	4.0	1.25	2.00
J	BMV1+p	MT20	3.0	4.0		
K	BMVW1-t	MT20	4.0	4.0		
L, M, N						
L	BMV1+w	MT20	2.0	4.0		
O	BMVW1-t	MT20	4.0	4.0		
P	BMV1+p	MT20	3.0	4.0		

LOADING
 TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)		MAX. UNBRACED LENGTH (FT)	FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	FR-TO
		FROM	TO						
P-B	-262/0	0.0	0.0	0.03 (1)	7.81	M-E	-151/0	0.06 (1)	
A-B	0/35	-91.8	-91.8	0.12 (1)	10.00	N-D	-221/0	0.04 (1)	
B-C	-54/0	-91.8	-91.8	0.12 (1)	6.25	O-C	-33/0	0.00 (1)	
C-D	0/4	-91.8	-91.8	0.08 (1)	10.00	L-F	-221/0	0.04 (1)	
D-E	-10/0	-91.8	-91.8	0.08 (1)	8.25	K-G	-33/0	0.00 (1)	
E-F	-10/0	-91.8	-91.8	0.08 (1)	8.25	B-O	0/9	0.00 (1)	
F-G	0/4	-91.8	-91.8	0.08 (1)	10.00	K-H	0/9	0.00 (1)	
G-H	-54/0	-91.8	-91.8	0.12 (1)	6.25				
H-I	0/35	-91.8	-91.8	0.12 (1)	10.00				
J-H	-262/0	0.0	0.0	0.03 (1)	7.81				
P-O	0/0	-18.5	-18.5	0.01 (4)	10.00				
O-N	0/5	-18.5	-18.5	0.02 (4)	10.00				
N-M	-1/0	-18.5	-18.5	0.02 (4)	10.00				
M-L	-1/0	-18.5	-18.5	0.02 (4)	10.00				
L-K	0/5	-18.5	-18.5	0.02 (4)	10.00				
K-J	0/0	-18.5	-18.5	0.01 (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, 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 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=0.12/1.00 (H-I:1), BC=0.02/1.00 (K-L:4),
 WB=0.05/1.00 (E-M:1), SSI=0.08/1.00 (H-I:1)

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

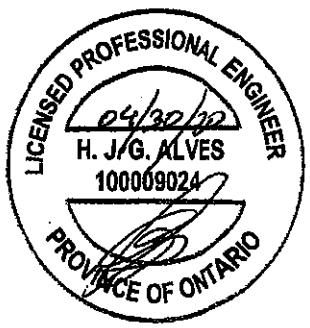
COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches
 PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (H) (INPUT = 0.90)
 JSI METAL= 0.11 (F) (INPUT = 1.00)

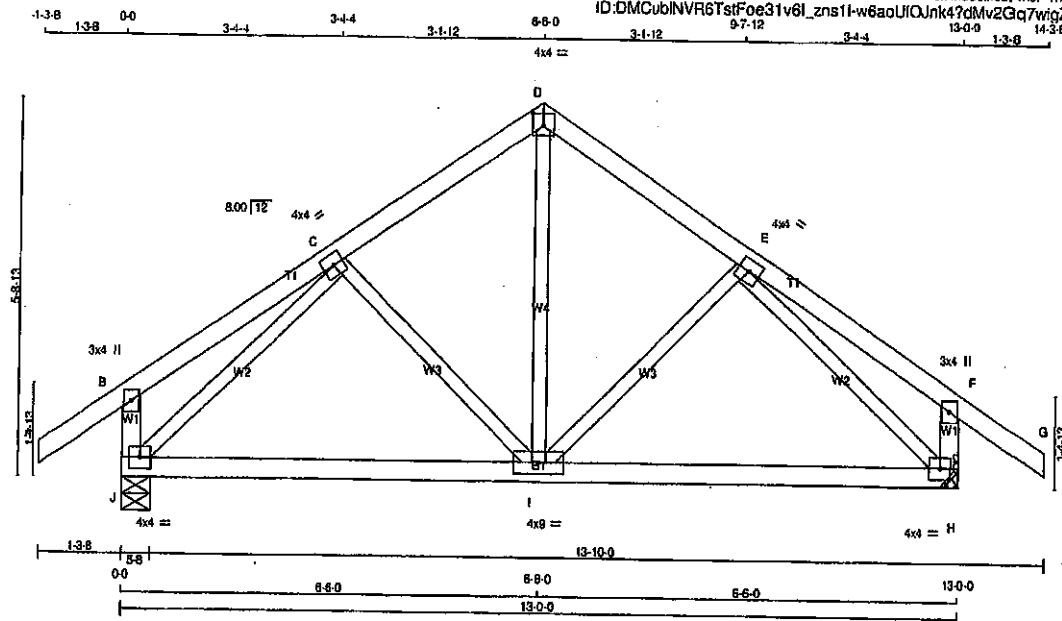


Structural component only
 DWG# T-2007909

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408313	T44	4	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 M Tek Industries, Inc. Thu Apr 30 08:10:28 2020 Page 1
ID:DMCubINVR6TstFoe31v6I_zns1i-w6aoUfOJnk47dMv2Gq7wigZuKY1O2tUEARJDLzLbr9



Scale: 3/8"=1'

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

DRY: SEASONED LUMBER.

PLATES (table 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		
H BMVW-1	MT20	4.0	4.0		
I BMVW-1	MT20	4.0	4.0		
J 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
J	843	0	843	0
H	843	0	843	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	PERALIVE	WIND	DEAD	SOIL
J	594	403 / 0	0 / 0	0 / 0	191 / 0	0 / 0
H	594	403 / 0	0 / 0	0 / 0	191 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8	0.12 (1)	I-D	0 / 353	0.08 (1)	
B-C	0 / 18	-91.8 -91.8	0.15 (1)	I-E	-152 / 0	0.05 (1)	
C-D	-555 / 0	-91.8 -91.8	0.12 (1)	C-I	-152 / 0	0.05 (1)	
D-E	-555 / 0	-91.8 -91.8	0.12 (1)	J-C	-785 / 0	0.28 (1)	
E-F	0 / 18	-91.8 -91.8	0.15 (1)	E-H	-785 / 0	0.28 (1)	
F-G	0 / 35	-91.8 -91.8	0.12 (1)				
J-B	-241 / 0	0.0 0.0	0.02 (1)				
H-F	-241 / 0	0.0 0.0	0.02 (1)				
J-I	0 / 555	-18.5 -18.5	0.27 (4)				
I-H	0 / 555	-18.5 -18.5	0.27 (4)				

TOTAL WEIGHT = 4 X 57 = 227 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/CE

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 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = $L/360$ (0.43")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.01")
ALLOWABLE DEFL.(TL) = $L/360$ (0.43")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.05")

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

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)	(PLI)	
MT20	618	354	1867 788 1987 1858

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.69 (C) (INPUT = 0.90)
JSI METAL= 0.28 (C) (INPUT = 1.00)

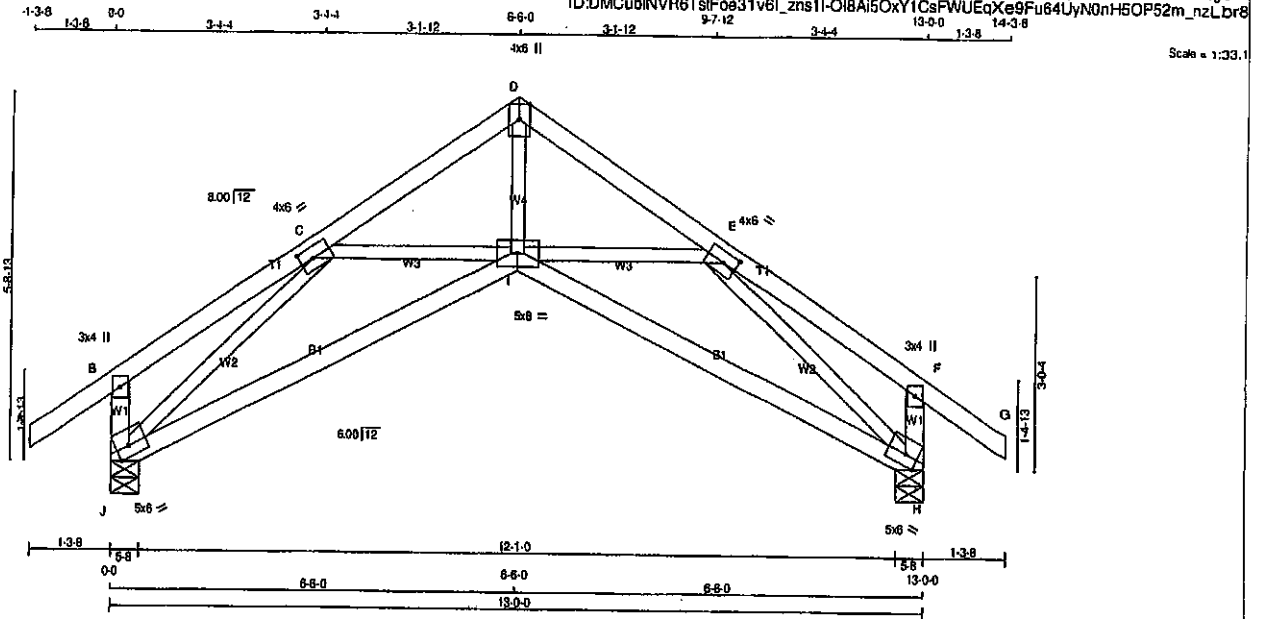


Structural component only
DWG# T-2007931

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408313	T45S	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TsIF0a31v6I_zns1I-018AI5OxY1CsfWUEqXe9Fu64UyN0nH5OP52m_nzLbr8



Scale = 1/32"

TOTAL WEIGHT = 2 X 55 = 110 lb

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

SPF

DRY: SEASONED LUMBER.

PLATES (tables in inches)				
JT TYPE	PLATES	W	LEN	Y X
B	TMW+p	MT20	3.0	4.0
C	TMW+p	MT20	4.0	6.0
D	TTW+p	MT20	4.0	6.0
E	TMW+p	MT20	4.0	6.0
F	TMW+p	MT20	3.0	4.0
H	BMVW1-i	MT20	5.0	8.0
I	BMVW1-p	MT20	5.0	8.0
J	BMVW1-i	MT20	5.0	8.0

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

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

BEARINGS							
	FACTORED	MAXIMUM FACTORED	INPUT	RECORD			
	GROSS REACTION	GROSS REACTION	BRG	BRG			
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
J	843	0	843	0	0	5-8	5-8
H	843	0	843	0	0	5-8	5-8

UNFACTORED REACTIONS							
1ST CASE	MAX	MIN	COMPONENT	REACTIONS			
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	594	403/0	0/0	0/0	0/0	181/0	0/0
H	594	403/0	0/0	0/0	0/0	181/0	0/0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.74 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS						WEBS					
MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX
	FORCE	VERT. LOAD	PLF	CSI	LC		FORCE	VERT. LOAD	PLF	CSI	LC
FR-TO						FR-TO					
A-B	0/35	-91.8	-91.8	0.12	(1)	I-D	0/1069	0.24	(1)		
B-C	0/14	-91.8	-91.8	0.12	(1)	I-E	0/82	0.02	(4)		
C-D	-1193/0	-91.8	-91.8	0.12	(1)	C-I	0/62	0.02	(4)		
D-E	-1193/0	-91.8	-91.8	0.12	(1)	J-C	-1382/0	0.49	(1)		
E-F	0/14	-91.8	-91.8	0.12	(1)	E-H	-1382/0	0.49	(1)		
F-G	0/35	-91.8	-91.8	0.12	(1)						
J-B	-251/0	0.0	0.0	0.03	(1)						
H-F	-251/0	0.0	0.0	0.03	(1)						
J-I	0/1069	-18.5	-18.5	0.30	(4)						
I-H	0/1069	-18.5	-18.5	0.30	(4)						

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. 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 2018
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 088-14
- TRC 2011, TRC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (0.43")
CALCULATED VERT. DEFL. (LL) = L/999 (0.05")
ALLOWABLE DEFL. (TL) = L/360 (0.43")
CALCULATED VERT. DEFL. (TL) = L/999 (0.14")

CSI: TC=0.12/1.00 (A-B:1), BC=0.30/1.00 (H-I:4), WB=0.49/1.00 (E-H:1), SI=0.11/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

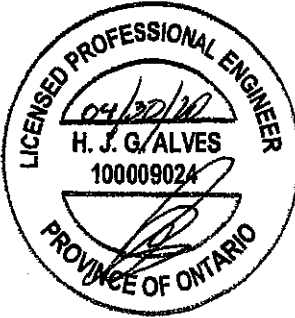
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 768 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (J) (INPUT = 0.90)
JSI METAL= 0.35 (C) (INPUT = 1.00)

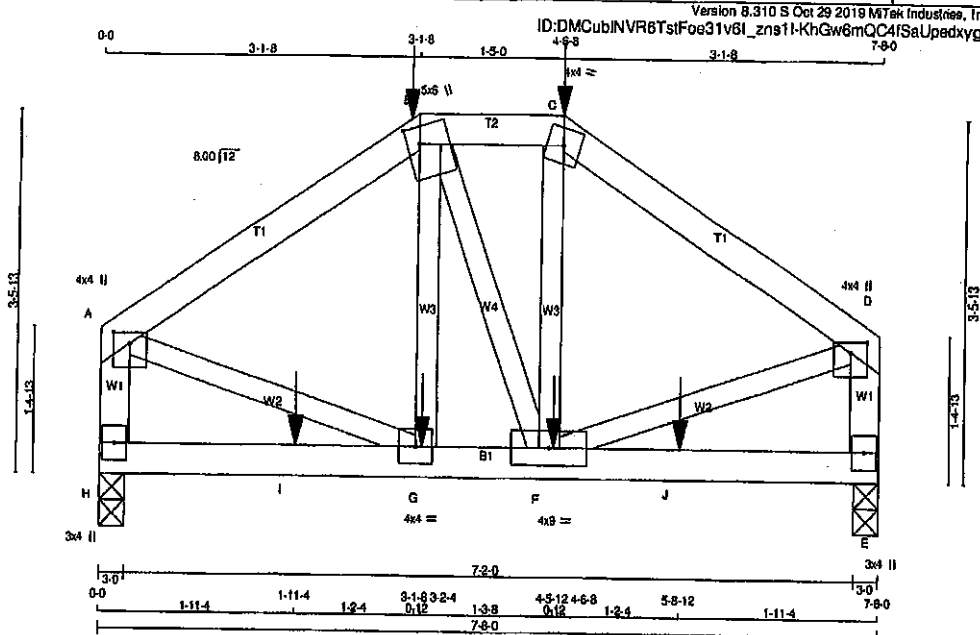


Structural component only
DWG# T-2007932

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408313	T46	1	1	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTK Industries, Inc. Thu Apr 30 08:10:31 2020 Page 1
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LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - B	2x4	DRY	No.2
B - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
H - A	2x4	DRY	No.2
E - D	2x4	DRY	No.2
H - E	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
DRY: SEASONED LUMBER.			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y
A	TMVW+p	MT20	4.0	4.0	1.25
B	TTWW+m	MT20	5.0	8.0	2.00
C	TTW-m	MT20	4.0	4.0	
D	TMVW+p	MT20	4.0	4.0	1.25
E	BMV1+p	MT20	3.0	4.0	
F	BMVWW-H	MT20	4.0	9.0	
G	BMVWW-H	MT20	4.0	4.0	
H	BMV1+p	MT20	3.0	4.0	

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

BEARINGS							
	FACTORED	MAXIMUM FACTORED	INPUT	REQ'D			
	GROSS REACTION	GROSS REACTION	BRG	BRG			
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
H	819	0	619	0	0	3-0	3-0
E	619	0	619	0	0	3-0	3-0

UNFACTORED REACTIONS							
	1ST LOASE	MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
H	437	280 / 0	0 / 0	0 / 0	0 / 0	147 / 0	0 / 0
E	437	280 / 0	0 / 0	0 / 0	0 / 0	147 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) H, 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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO	LENGTH FR-TO	FR-TO			
A-B	-535 / 0	-91.8 -91.8	0.17 (1)	6.25	G-B	-84 / 21	0.02 (1)
B-C	-440 / 0	-91.8 -91.8	0.04 (1)	6.25	B-F	-3 / 0	0.00 (1)
C-D	-533 / 0	-91.8 -91.8	0.17 (1)	6.25	F-C	-87 / 22	0.02 (1)
H-A	-590 / 0	0.0 0.0	0.07 (1)	7.81	A-G	0 / 468	0.12 (1)
E-D	-589 / 0	0.0 0.0	0.07 (1)	7.81	F-D	0 / 467	0.12 (1)
H-I	0 / 0	-18.5 -18.5	0.08 (4)	10.00			
I-G	0 / 0	-18.5 -18.5	0.08 (4)	10.00			
G-F	0 / 441	-18.5 -18.5	0.10 (1)	10.00			
F-J	0 / 0	-18.5 -18.5	0.08 (4)	10.00			
J-E	0 / 0	-18.5 -18.5	0.08 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)							
JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE
B	3-1-8	-176	-176	---	BACK	VERT	TOTAL
C	4-6-8	-176	-176	---	BACK	VERT	TOTAL
F	4-5-12	-10	-10	---	BACK	VERT	TOTAL
G	3-2-4	-10	-10	---	BACK	VERT	TOTAL
I	1-11-4	-10	-10	---	BACK	VERT	TOTAL
J	5-6-12	-10	-10	---	BACK	VERT	TOTAL

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL. (LL) = L/360 (0.26")
CALCULATED VERT. DEFL. (LL) = L/999 (0.00")
ALLOWABLE DEFL. (TL) = L/360 (0.26")
CALCULATED VERT. DEFL. (TL) = L/999 (0.01")
CSI: TC=0.17/1.00 (A-B:1), BC=0.10/1.00 (F-G:1), WB=0.12/1.00 (A-G:1), SS=0.10/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

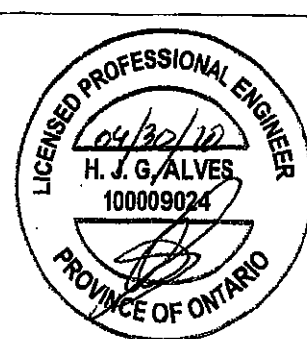
NAIL VALUES			
PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 788	1987 1858

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.58 (G) (INPUT = 0.90)

JSI METAL= 0.17 (G) (INPUT = 1.00)

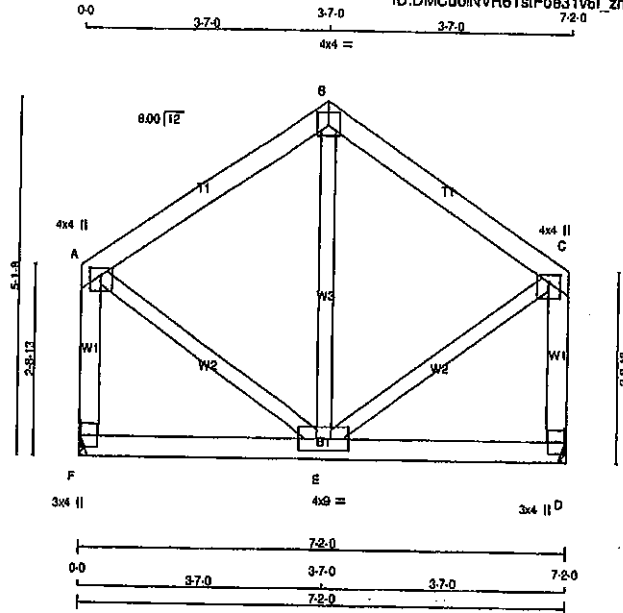


Structural component only
DWG# T-2007933

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408313	T47	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:30.5



LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - B	2x4	DRY	No.2	SPF
B - C	2x4	DRY	No.2	SPF
F - A	2x4	DRY	No.2	SPF
D - C	2x4	DRY	No.2	SPF
F - D	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	X
A - TMVW+p	MT20	4.0	4.0	1.25 2.00
B - TTW-p	MT20	4.0	4.0	2.25 2.00
C - TMVW+p	MT20	4.0	4.0	1.25 2.00
D - BMV1+p	MT20	3.0	4.0	
E - BMVW-t	MT20	4.0	9.0	
F - BMV1+p	MT20	3.0	4.0	

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	RECORD
JT	GROSS REACTION	GROSS REACTION	BRG	BRG	
F	395	0	395	0	0
D	395	0	395	0	0

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

UNFACTORED REACTIONS		1ST LCASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
F	279	183/0	0/0
D	279	183/0	0/0

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	FORCE (LBS)
FR-TO		FROM TO	CS1 (LC)	FR-TO	
A-B	-184/0	-91.8 -91.8 0.15 (1)	6.25	E-B	-125/15
B-C	-184/0	-91.8 -91.8 0.15 (1)	6.25	A-E	0/184
F-A	-369/0	0.0 0.0 0.05 (1)	7.81	E-C	0/184
D-C	-369/0	0.0 0.0 0.06 (1)	7.81		
F-E	0/0	-18.5 -18.5 0.07 (4)	10.00		
E-D	0/0	-18.5 -18.5 0.07 (4)	10.00		

TOTAL WEIGHT = 34 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.24")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.24")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CS1: TC=0.15/1.00 (B-C:1), BC=0.07/1.00 (E-F:4), WB=0.05/1.00 (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

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.

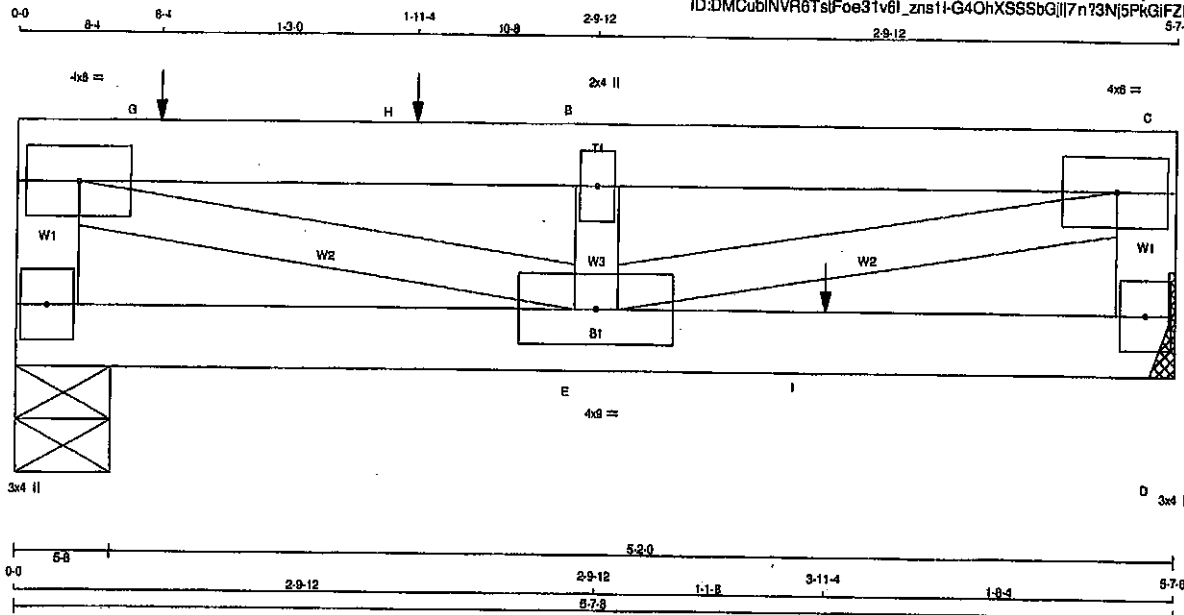
JSI GRIP= 0.26 (A) (INPUT = 0.90)
JSI METAL= 0.08 (A) (INPUT = 1.00)



Structural component only
DWG# T-2007934

JOB NAME 408313	TRUSS NAME T48	QUANTITY 2	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:10.1

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

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122'x3') SPIRAL NAILS		
F-A 1	12	TOP
A-C 1	12	TOP
C-D 1	12	TOP
BOTTOM CHORDS : (0.122'x3') SPIRAL NAILS		
F-D 1	12	SIDE(0.0)
WEBS : (0.122'x3') SPIRAL NAILS		
2x3 1	8	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-I	MT20	4.0	6.0		
B	TMVW-w	MT20	2.0	4.0		
C	TMVW-I	MT20	4.0	6.0		
D	BMV1-p	MT20	3.0	4.0		
E	BMVWW-I	MT20	4.0	9.0		
F	BMV1-p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
	VERT	DOWN	IN-SX	IN-SX
F	952	0	0	5-8
D	781	0	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
F	871	449 / 0	0 / 0	0 / 0	222 / 0	0 / 0
D	551	388 / 0	0 / 0	0 / 0	184 / 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 = 6.22 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. LC1 MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
F-A	-929 / 0	0.0	0.0 0.05 (1)	A-E	0 / 1788	0.22 (1)	
A-G	-1708 / 0	-91.8	-91.8 0.27 (1)	E-B	-778 / 0	0.08 (1)	
G-H	-1708 / 0	-91.8	-91.8 0.27 (1)	E-C	0 / 1788	0.22 (1)	
H-B	-1708 / 0	-91.8	-91.8 0.27 (1)				
B-C	-1708 / 0	-91.8	-91.8 0.12 (1)				
D-C	-808 / 0	0.0	0.0 0.03 (1)				
F-E	0 / 0	-18.5	-18.5 0.02 (4)				
E-I	0 / 0	-18.5	-18.5 0.20 (1)				
I-D	0 / 0	-18.5	-18.5 0.20 (1)				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	8-4	-208	-208	---	TOP	VERT	TOTAL	---	C1
H	1-11-4	-528	-528	---	TOP	VERT	TOTAL	---	C1
I	3-11-4	-377	-377	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 4 X 19 = 75 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	25.6	PSF
CL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
CL	=	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 2018
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) = $L/360$ (0.19")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.02")
ALLOWABLE DEFL. (TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.04")

CSI: TC=0.27/1.00 (A-B:1), BC=0.20/1.00 (D-E:1), WB=0.22/1.00 (A-E:1), SS=0.28/1.00 (A-B: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	1887 788	1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

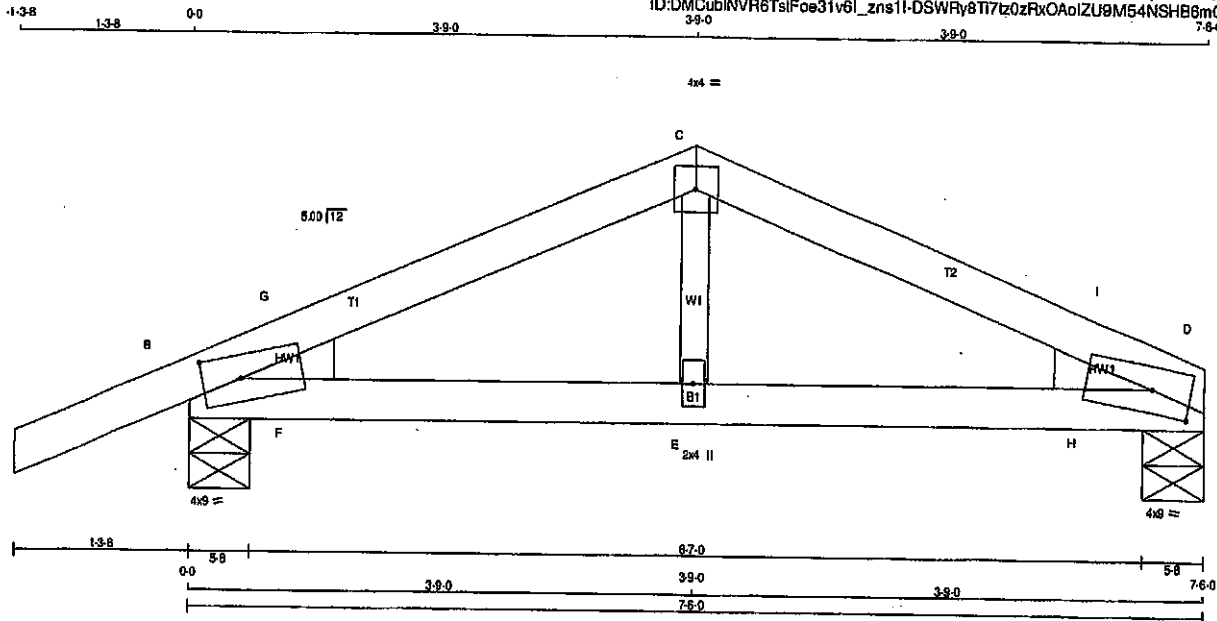
JSI GRIP = 0.58 (C) (INPUT = 0.90)
JSI METAL = 0.21 (C) (INPUT = 1.00)



Structural component only
DWG# T-2007935

JOB NAME 408313	TRUSS NAME T49	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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Scale = 1:15.3

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

PLATES (tablets in inches)				
JT TYPE	PLATES	W	LEN	Y X
B	TMBH1-m	MT20	4.0	9.0 2.00 3.50
C	TTW-p	MT20	4.0	4.0
D	TMBH1-m	MT20	4.0	9.0 2.00 3.50
E	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		REQRO	
GROSS REACTION			GROSS REACTION			BRG	BRG	HEEL	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	WEDGE	
B	537	0	537	0	0	5-8	5-8	2x4 L	
D	413	0	413	0	0	5-8	5-8	2x4 R	

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
B	378	281/0	0/0	0/0	0/0	117/0	0/0
D	292	192/0	0/0	0/0	0/0	100/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED MEMB. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO	MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
A-B	0/18	-91.8	-91.8	0.12 (1)	10.00	E-C	0/152	0.03 (1)	0.03 (1)
B-G	-583/0	-91.8	-91.8	0.02 (1)	6.25	F-G	-110/6	0.00 (1)	0.00 (1)
G-C	-536/0	-91.8	-91.8	0.11 (1)	6.25	H-I	-110/6	0.00 (1)	0.00 (1)
C-I	-536/0	-91.8	-91.8	0.11 (1)	6.25				
I-D	-563/0	-91.8	-91.8	0.02 (1)	6.25				
B-F	0/493	-18.5	-18.5	0.19 (1)	10.00				
F-E	0/493	-18.5	-18.5	0.19 (1)	10.00				
E-H	0/493	-18.5	-18.5	0.19 (1)	10.00				
H-D	0/493	-18.5	-18.5	0.19 (1)	10.00				

TOTAL WEIGHT = 3 X 22 = 67 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 9.0 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 2010, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.25")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.25")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.12/1.00 (A-B:1), BC=0.18/1.00 (B-F:1), WB=0.03/1.00 (C-E:1), SS=0.10/1.00 (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)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1887 788	1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

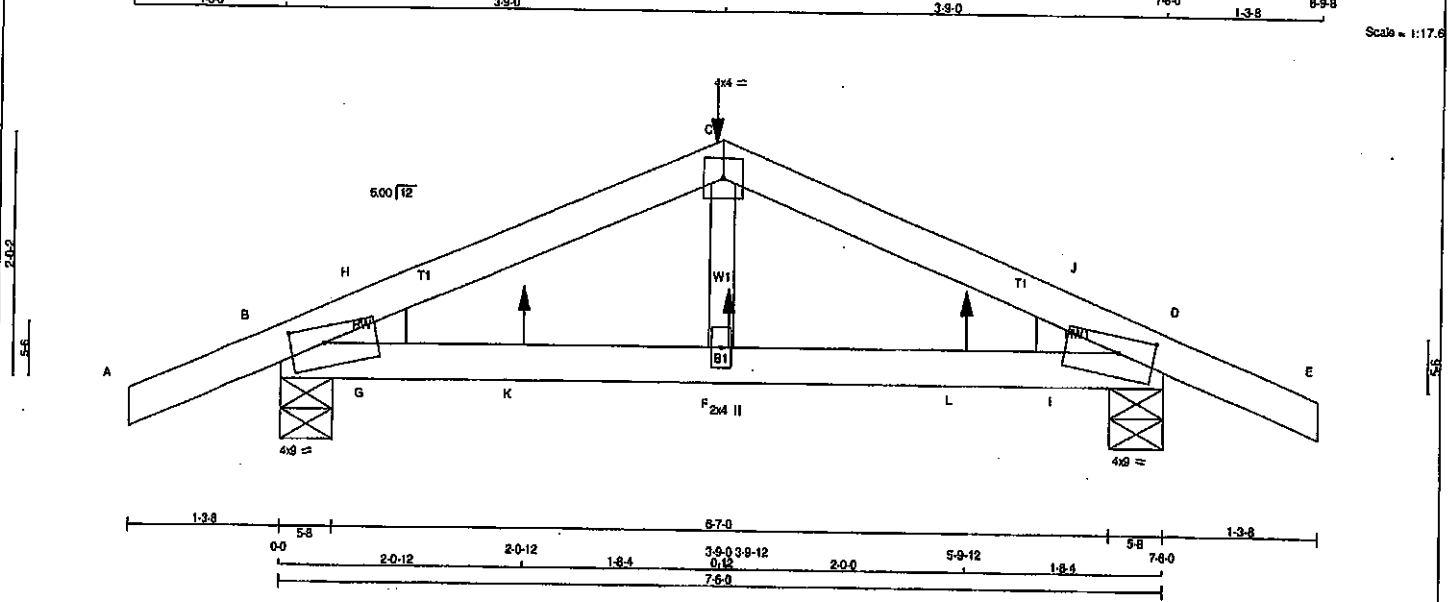
JSI GRIP=0.19 (C) (INPUT = 0.90)
JSI METAL=0.08 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007936

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408313	T49Z	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

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LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - 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	TMBH1-m	MT20	4.0	9.0	1.75	3.50
C	TTW-p	MT20	4.0	4.0		
D	TMBH1-m	MT20	4.0	9.0	1.75	3.50
F	BMW-w	MT20	2.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG	HEEL
	VERT	HORZ	DOWN	HORZ			
B	875	0	875	0	5-8	5-8	2x4 L
D	874	0	874	0	5-8	5-8	2x4 R

UNFACTORED REACTIONS

JT	COMBINED	MAX/MIN COMPONENT REACTIONS				
		1ST CASE	SNOW	LIVE	PERM. LIVE	WIND
B	475	324/0	0/0	0/0	0/0	152/0
D	475	323/0	0/0	0/0	0/0	152/0

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

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

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

LOADING
TOTAL LOAD CASES: (7)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0/18	-31.8 -31.8	0.13 (1)	F-C	0/128	0.04 (4)	
B-H	-881/0	-31.8 -31.8	0.04 (1)	G-H	-90/22	0.00 (1)	
H-C	-837/0	-31.8 -31.8	0.14 (1)	I-J	-91/22	0.00 (1)	
C-J	-837/0	-31.8 -31.8	0.14 (1)				
J-D	-881/0	-31.8 -31.8	0.04 (1)				
D-E	0/18	-31.8 -31.8	0.13 (1)				
B-G	0/770	-24.5 -24.5	0.23 (1)				
G-K	0/770	-24.5 -24.5	0.23 (1)				
K-F	0/770	-24.5 -24.5	0.23 (1)				
F-L	0/770	-24.5 -24.5	0.23 (1)				
L-I	0/770	-24.5 -24.5	0.23 (1)				
I-D	0/770	-24.5 -24.5	0.23 (1)				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
C	3-9-0	-259	-259		FRONT	VERT	TOTAL		C1
F	3-9-12	9	1	16	FRONT	VERT	TOTAL		C1
K	2-0-12	9	1	16	FRONT	VERT	TOTAL		C1
L	5-9-12	9	1	16	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 = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. OC

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

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

ALLOWABLE DEFL. (LL) = $L/360$ (0.25")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.01")
ALLOWABLE DEFL. (TL) = $L/360$ (0.25")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.02")

CSI: TC=0.14/1.00 (C-H:1), BC=0.23/1.00 (B-G:1),
WB=0.04/1.00 (C-F:4), SS=0.11/1.00 (C-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

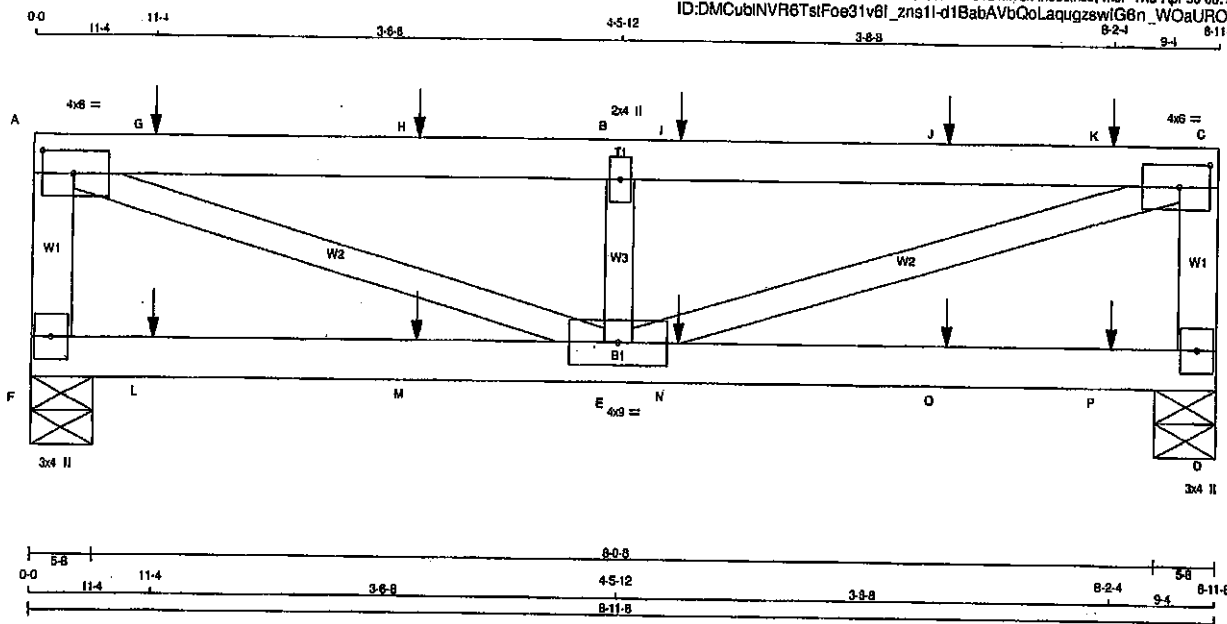
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.30 (C) (INPUT = 0.90)
JSI METAL=0.14 (D) (INPUT = 1.00)



Structural component only
DWG# T-2007937

JOB NAME 408313	TRUSS NAME T50	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 30 08:10:38 2020 Page 1	



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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	X
A	TMVW-1	MT20	4.0	8.0	2.00 2.75
B	TMVW-w	MT20	2.0	4.0	
C	TMVW-1	MT20	4.0	8.0	2.00 2.75
D	BMV1+p	MT20	3.0	4.0	
E	BMVWW-1	MT20	4.0	8.0	
F	BMV1+p	MT20	3.0	4.0	

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	HORZ	BRG	IN-SX	BRG	IN-SX
F	803	0	803	0	0	5-8	5-8	5-8	5-8
D	856	0	856	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

1ST CASE		MAX. MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL		
F	668	373 / 0	0 / 0	0 / 0	0 / 0	195 / 0	0 / 0		
D	605	397 / 0	0 / 0	0 / 0	0 / 0	208 / 0	0 / 0		

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.72 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.

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MAX. MIN. (LBS)	MEMB.	FORCE (LBS)	MAX. MIN. (LBS)	CS1 (LC)
FR-TO				FR-TO			
F-A	-719 / 0	0.0	0.0 0.08 (1)	A-E	0 / 1528	0.38 (1)	
A-G	-1450 / 0	-91.8	-91.8 0.50 (1)	E-B	-740 / 0	0.12 (1)	
G-H	-1450 / 0	-91.8	-91.8 0.50 (1)	E-C	0 / 1528	0.38 (1)	
H-B	-1450 / 0	-91.8	-91.8 0.50 (1)				
B-I	-1450 / 0	-91.8	-91.8 0.50 (1)				
I-J	-1450 / 0	-91.8	-91.8 0.50 (1)				
J-K	-1450 / 0	-91.8	-91.8 0.50 (1)				
K-C	-1450 / 0	-91.8	-91.8 0.50 (1)				
D-C	-784 / 0	0.0	0.0 0.09 (1)				
F-L	0 / 0	-18.5	-18.5 0.15 (4)				
L-M	0 / 0	-18.5	-18.5 0.15 (4)				
M-E	0 / 0	-18.5	-18.5 0.15 (4)				
E-N	0 / 0	-18.5	-18.5 0.15 (1)				
N-O	0 / 0	-18.5	-18.5 0.15 (1)				
O-P	0 / 0	-18.5	-18.5 0.15 (1)				
P-D	0 / 0	-18.5	-18.5 0.15 (1)				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	11-4	-85	-85	---	BACK	VERT	TOTAL	---	C1
H	2-11-4	-82	-82	---	BACK	VERT	TOTAL	---	C1
I	4-11-4	-82	-82	---	BACK	VERT	TOTAL	---	C1
J	6-11-4	-82	-82	---	BACK	VERT	TOTAL	---	C1
K	8-2-4	-92	-92	---	BACK	VERT	TOTAL	---	C1
L	11-4	-50	-50	---	BACK	VERT	TOTAL	---	C1
M	2-11-4	-49	-49	---	BACK	VERT	TOTAL	---	C1
N	4-11-4	-49	-49	---	BACK	VERT	TOTAL	---	C1
O	6-11-4	-49	-49	---	BACK	VERT	TOTAL	---	C1
P	8-2-4	-51	-51	---	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 6.00/12

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

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

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

ALLOWABLE DEFL. (LL) = $L/360$ (0.30")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.04")
ALLOWABLE DEFL. (TL) = $L/360$ (0.30")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.08")

CS1: TC=0.50/1.00 (A-B:1), BC=0.15/1.00 (D-E:1), WB=0.38/1.00 (A-E:1), SS=0.34/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	818	354	1867 788 1987 1868

PLATE PLACEMENT TOL. = 0.250 inches

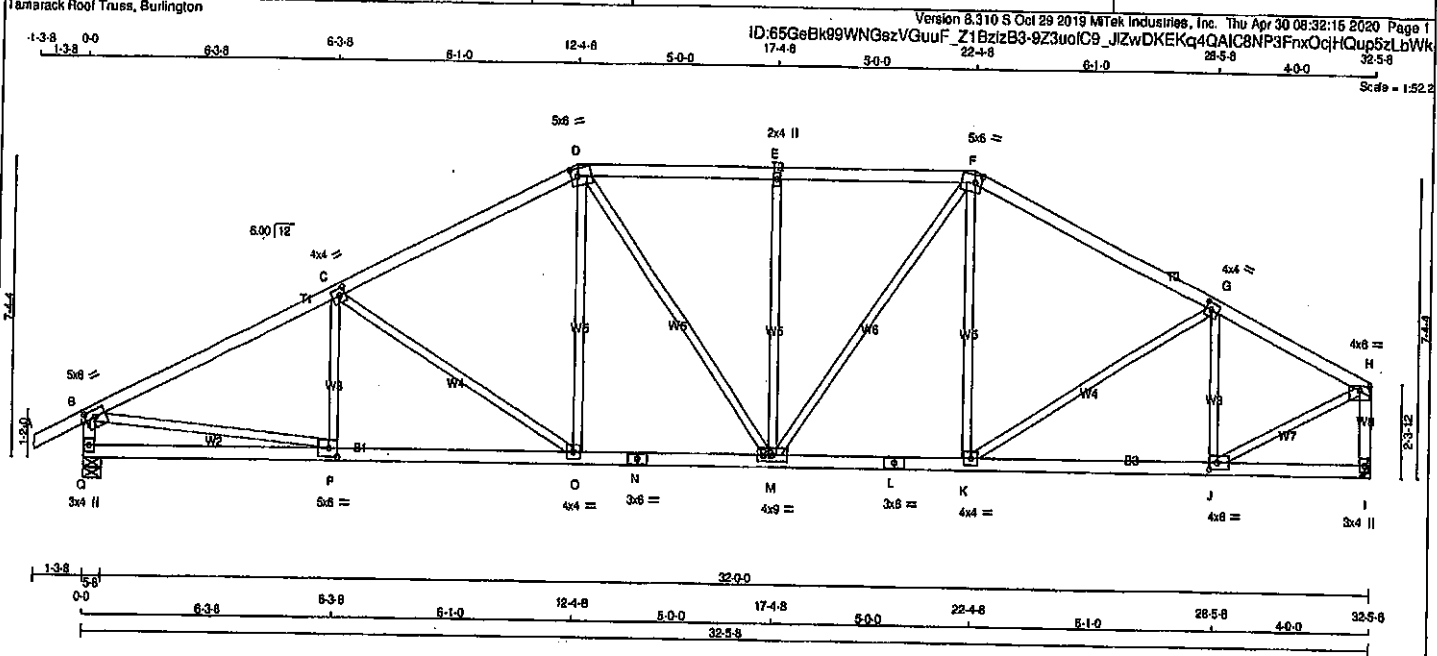
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (E) (INPUT = 0.90)
JSI METAL = 0.38 (C) (INPUT = 1.00)



Structural component only
DWG# T-2007938

JOB NAME 408314	TRUSS NAME T59	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	ORWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWV-I	MT20	5.0	6.0	2.00	2.75
C	TMWV-I	MT20	4.0	4.0	2.00	1.75
D	TTWV-m	MT20	5.0	6.0	2.25	2.00
E	TMWV-w	MT20	2.0	4.0		
F	TTWV-m	MT20	5.0	6.0	2.25	2.00
G	TMWV-I	MT20	4.0	4.0	2.00	1.75
H	TMWV-p	MT20	4.0	6.0	1.25	3.00
I	BMV1+p	MT20	3.0	4.0		
J	BMWV-I	MT20	4.0	6.0	2.00	2.50
K	BMWV-I	MT20	4.0	4.0		
L	BS-I	MT20	3.0	6.0		
M	BMWV-I	MT20	4.0	9.0		
N	BS-I	MT20	3.0	6.0		
O	BMWV-I	MT20	4.0	4.0		
P	BMWV-I	MT20	5.0	6.0	2.50	2.50
Q	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

FACTORED	MAXIMUM FACTORED	INPUT	RECORD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	DOWN	IN-SX	IN-SX
Q 1914	0	0	5-8
I 1789	0	0	MECHANICAL

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

UNFACTORED REACTIONS

1ST LCASE	MAX. MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
Q 1351	900 / 0 0 / 0 0 / 0 0 / 0 451 / 0 0 / 0
I 1285	830 / 0 0 / 0 0 / 0 0 / 0 435 / 0 0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.69 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-91.8 -91.8	0.12 (1)	P-C	-201 / 36	0.08 (1)	
B-C	-2635 / 0	-91.8 -91.8	0.90 (1)	C-O	-523 / 0	0.58 (1)	
C-D	-2205 / 0	-91.8 -91.8	0.54 (1)	O-D	0 / 392	0.09 (1)	
D-E	-2087 / 0	-91.8 -91.8	0.34 (1)	D-M	0 / 237	0.05 (1)	
E-F	-2087 / 0	-91.8 -91.8	0.34 (1)	M-E	-560 / 0	0.54 (1)	
F-G	-2004 / 0	-91.8 -91.8	0.47 (1)	M-F	0 / 545	0.12 (1)	
G-H	-1815 / 0	-91.8 -91.8	0.37 (1)	K-F	0 / 90	0.03 (4)	
Q-B	-1884 / 0	0.0 0.0	0.19 (1)	K-G	0 / 139	0.03 (1)	
I-H	-1761 / 0	0.0 0.0	0.22 (1)	J-G	-728 / 0	0.20 (1)	
				B-P	0 / 2405	0.54 (1)	
Q-P	0 / 0	-18.5 -18.5	0.16 (4)	J-H	0 / 1851	0.42 (1)	
P-O	0 / 2363	-18.5 -18.5	0.45 (1)				
O-N	0 / 1950	-18.5 -18.5	0.38 (1)				
N-M	0 / 1950	-18.5 -18.5	0.38 (1)				
M-L	0 / 1772	-18.5 -18.5	0.38 (1)				
L-K	0 / 1772	-18.5 -18.5	0.38 (1)				
K-J	0 / 1655	-18.5 -18.5	0.34 (1)				
J-I	0 / 0	-18.5 -18.5	0.11 (4)				

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

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

ALLOWABLE DEFL. (LL) = L/360 (1.08")
CALCULATED VERT. DEFL. (LL) = L/999 (0.10")
ALLOWABLE DEFL. (TL) = L/360 (1.08")
CALCULATED VERT. DEFL. (TL) = L/999 (0.20")

CSI: TC=0.60/1.00 (B-C:1), BC=0.45/1.00 (O-P:1), WB=0.56/1.00 (C-O:1), SSI=0.25/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

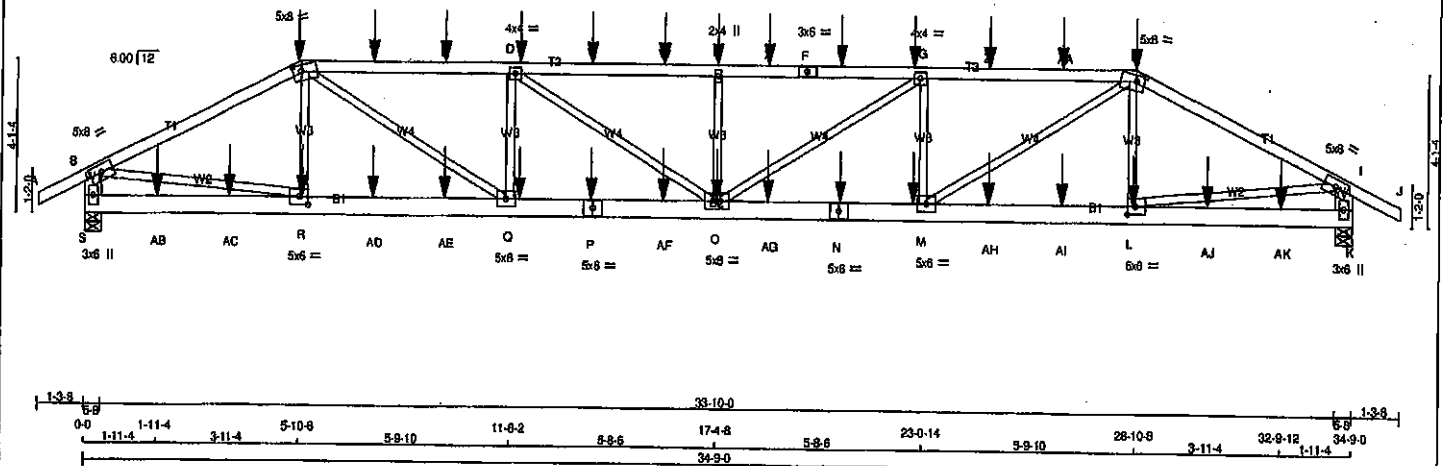
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.90 (B) (INPUT = 0.90)
JSI METAL = 0.70 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007955

JOB NAME 408314	TRUSS NAME T60	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.310 S Oct 29 2019 Milek Industries, Inc. Thu Apr 30 08:32:17 2020 Page 1	
1-3-8 0-0 5-10-8 5-10-8 5-9-10 11-8-2 5-8-6 17-4-8 5-8-6 23-0-14 5-9-10 28-10-8 5-10-8 34-9-0 36-0-8 1-3-8 Scale = 1:57.0				ID:85GeBk98WNGszVGuuF_Z1Bziz83-5x8BfDLPVw?GAWTdsE8uGjHdIDkdFrXvAbv_tzzLbWw 34-9-0 36-0-8 1-3-8	



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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS SURFACE SPACING (IN) LOAD(PLF)

TOP CHORDS : (0.122"x3") SPIRAL NAILS

A-C 1 12 SIDE(61.0)

C-F 1 12 SIDE(61.0)

F-H 1 12 SIDE(61.0)

H-J 1 12 SIDE(61.0)

S-B 2 12 TOP

K-I 2 12 TOP

BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS

S-P 2 12 SIDE(183.1)

P-N 2 12 SIDE(183.1)

N-K 2 12 SIDE(183.1)

WEBS : (0.122"x3") SPIRAL NAILS

2x3 1 6

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER							
BEARINGS							
JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG			
S	VERT	HORZ	DOWN	UPLIFT	IN-SX	IN-SX	
JT	3282	0	3282	0	5-8	5-8	
S	3282	0	3282	0	5-8	5-8	
K	3282	0	3282	0	5-8	5-8	
UNFACTORED REACTIONS							
JT	1ST LOASE	MAX/MIN. COMPONENT REACTIONS					
S	COMBINED	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
JT	2322	1519/0	0/0	0/0	0/0	803/0	0/0
S	2322	1519/0	0/0	0/0	0/0	803/0	0/0
K	2322	1519/0	0/0	0/0	0/0	803/0	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 = 2.94 FT.

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

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

LOADING							
TOTAL LOAD CASES: (4)							
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO				FR-TO			
A-B	0/28	-91.8	-91.8 0.07 (1)	10.00	R-C	-375/33	0.05 (1)
B-C	-4986/0	-91.8	-91.8 0.51 (1)	3.90	C-Q	0/3017	0.37 (1)
C-T	-8986/0	-91.8	-91.8 0.71 (1)	3.15	Q-D	-1448/0	0.18 (1)
T-U	-8986/0	-91.8	-91.8 0.71 (1)	3.15	D-O	0/910	0.11 (1)
U-D	-6986/0	-91.8	-91.8 0.71 (1)	3.15	O-E	-825/0	0.10 (1)
D-V	-7748/0	-91.8	-91.8 0.77 (1)	2.94	E-G	0/910	0.11 (1)
V-W	-7748/0	-91.8	-91.8 0.77 (1)	2.94	M-G	-1448/0	0.18 (1)
W-E	-7748/0	-91.8	-91.8 0.77 (1)	2.94	M-H	0/3017	0.37 (1)
E-X	-7748/0	-91.8	-91.8 0.77 (1)	2.94	L-H	-375/33	0.05 (1)
X-F	-7748/0	-91.8	-91.8 0.77 (1)	2.94	B-R	0/4495	0.56 (1)
F-Y	-7748/0	-91.8	-91.8 0.77 (1)	2.94	L-I	0/4495	0.56 (1)
Y-G	-7748/0	-91.8	-91.8 0.77 (1)	2.94			
G-Z	-6986/0	-91.8	-91.8 0.71 (1)	3.15			
Z-AA	-8986/0	-91.8	-91.8 0.71 (1)	3.15			
AA-H	-6986/0	-91.8	-91.8 0.71 (1)	3.15			
H-I	-4986/0	-91.8	-91.8 0.51 (1)	3.90			
I-J	0/28	-91.8	-91.8 0.07 (1)	10.00			
S-B	-3207/0	0.0	0.0 0.11 (1)	7.73			
K-I	-3207/0	0.0	0.0 0.11 (1)	7.73			

FACTORED CONCENTRATED LOADS (LBS)							
JT	LOC.	LC1	MAX.	MAX.	FACE	DIR.	TYPE
C	5-10-8	-411	-411	---	FRONT	VERT	TOTAL
D	11-11-4	-110	-110	---	FRONT	VERT	TOTAL

TOTAL WEIGHT = 2 X 153 = 306 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.8 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.16")

CALCULATED VERT. DEFL.(LL) = L/989 (0.24")

ALLOWABLE DEFL.(TL) = L/360 (1.16")

CALCULATED VERT. DEFL.(TL) = L/919 (0.45")

CSI: TC=0.77/1.00 (E-G:1), BC=0.52/1.00 (M-O:1), WB=0.58/1.00 (L-I:1), SS=0.20/1.00 (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 HELLS OFF

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

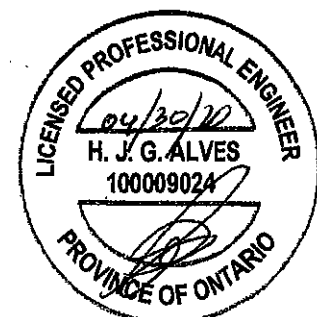
NAIL VALUES			
PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)	MAX MIN
MT20	618	354	1687 788 1997 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.88 (N) (INPUT = 1.00)



Structural component only
DWG# T-2007956 1/2

JOB NAME 408314	TRUSS NAME T60	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.310 S Oct 29 2018 MTEK Industries, Inc. Thu Apr 30 08:32:17 2020 Page 2
ID:85GeBk99WNQszVGuuF Z1BzizB3-5xBIDLPVw?GAWTdSE6uGIHQIDkdFrXvAbv tzz1bWV

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-1	MT20	5.0	8.0		
C	TTWW-m	MT20	5.0	8.0	2.00	2.75
D	TMVW-1	MT20	4.0	4.0		
E	TMVW-w	MT20	2.0	4.0		
F	TS-1	MT20	3.0	6.0		
G	TMVW-t	MT20	4.0	4.0		
H	TTWW-m	MT20	5.0	8.0	2.00	2.75
I	TMVW-t	MT20	5.0	8.0		
K	BMV1+p	MT20	3.0	6.0		
L	BMVW-1	MT20	5.0	6.0	2.50	2.75
M	BMVW-1	MT20	5.0	6.0		
N	BS-1	MT20	5.0	8.0		
O	BMVWV-1	MT20	5.0	8.0		
P	BS-1	MT20	5.0	6.0		
Q	BMVW-1	MT20	5.0	8.0		
R	BMVW-1	MT20	5.0	6.0	2.50	2.75
S	BMV1+p	MT20	3.0	6.0		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	17-4-8	-110	-110	---	FRONT	VERT	TOTAL	---	C1
G	22-9-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
H	28-10-8	-411	-411	---	FRONT	VERT	TOTAL	---	C1
L	28-9-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
M	22-9-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
N	20-9-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
O	17-4-8	-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	18-9-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Y	20-9-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Z	24-9-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AA	26-9-12	-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	18-9-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AH	24-9-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AI	26-9-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AJ	30-9-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AK	32-9-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

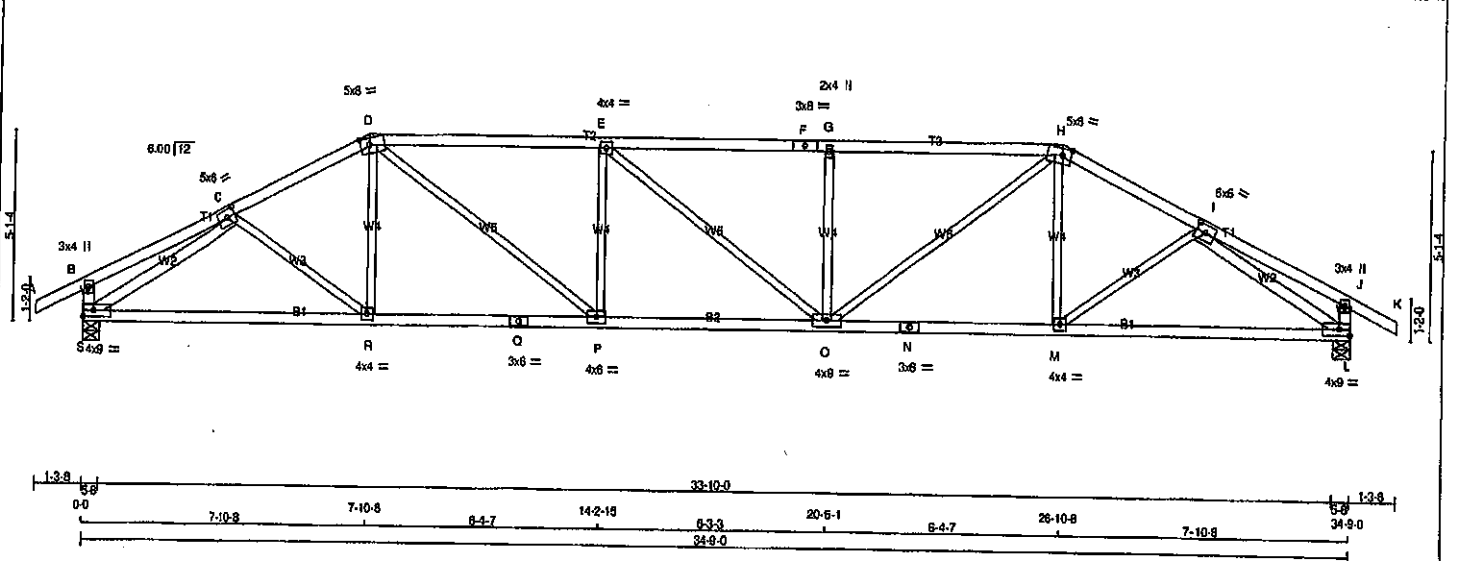
- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



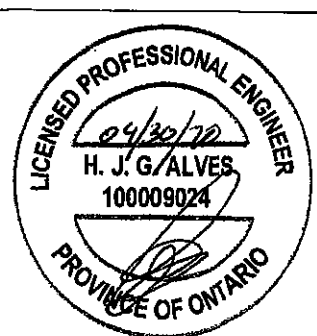
Structural component only
DWG# T-2007956 2/2

JOB NAME 408314	TRUSS NAME T61	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Thu Apr 30 08:32:19 2020 Page 1
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20-6-1 28-10-8 31-10-0 30-8-8 40-8-8 1-3-8
Scale = 1:57.0



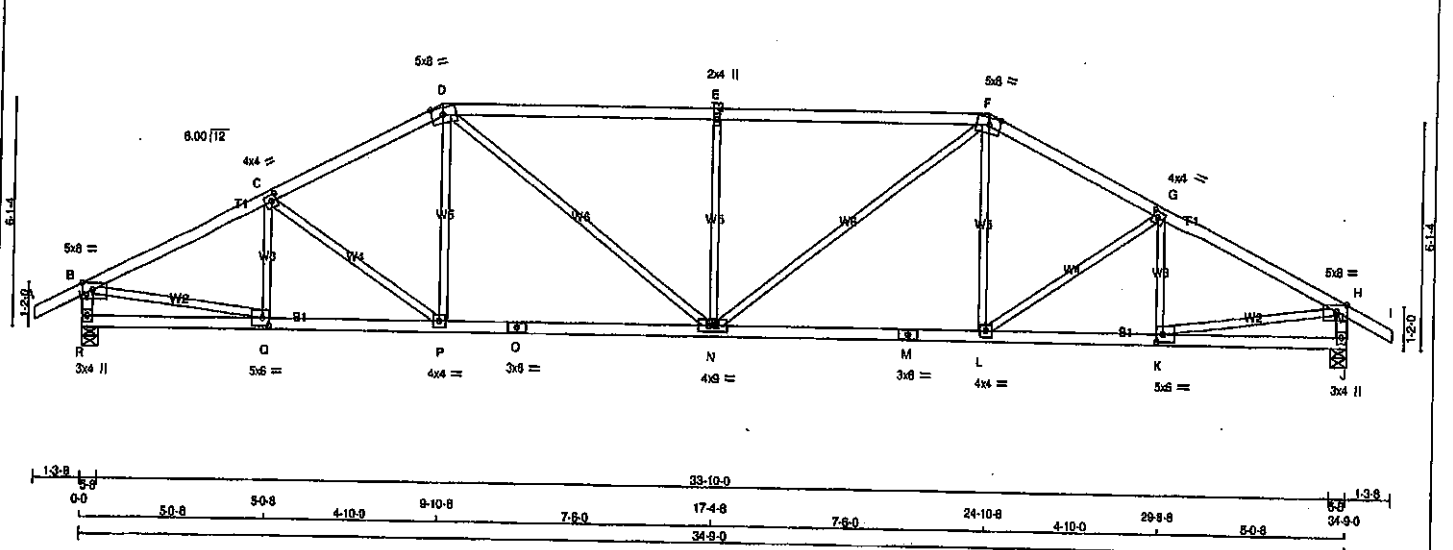
LUMBER				DESIGN CRITERIA			
N. L. G. A. RULES				SPECIFIED LOADS:			
CHORDS	SIZE	DRY	LUMBER	TOP CH.	LL	=	25.6 PSF
A - D	2x4	DRY	No.2	BOT CH.	LL	=	8.0 PSF
D - F	2x4	DRY	No.2		DL	=	0.0 PSF
F - H	2x4	DRY	No.2		DL	=	7.4 PSF
H - K	2x4	DRY	No.2				
S - B	2x4	DRY	No.2				
L - J	2x4	DRY	No.2				
S - Q	2x4	DRY	No.2				
Q - N	2x4	DRY	No.2				
N - L	2x4	DRY	No.2				
ALL WEBS	2x3	DRY	No.2				
EXCEPT							
S - C	2x4	DRY	No.2				
I - L	2x4	DRY	No.2				
DRY: SEASONED LUMBER.							
PLATES (tablets in inches)							
JT TYPE	PLATES	W	LEN Y X				
B TMV+p	MT20	3.0	4.0				
C TMVW-1	MT20	5.0	6.0	2.50	2.75		
D TTWW-m	MT20	5.0	8.0	2.25	3.00		
E TMVW-1	MT20	4.0	4.0				
F TS-1	MT20	3.0	8.0				
G TMVW-1	MT20	2.0	4.0				
H TTWW-m	MT20	5.0	8.0	2.25	3.00		
I TMVW-1	MT20	5.0	8.0	2.50	2.75		
J TMV+p	MT20	3.0	4.0				
L BMVW-1	MT20	4.0	9.0			Edge	
M BMVW-1	MT20	4.0	4.0				
N BS-1	MT20	3.0	8.0				
O BMVW-1	MT20	4.0	9.0				
P BMVW-1	MT20	4.0	6.0				
Q BS-1	MT20	3.0	8.0				
R BMVW-1	MT20	4.0	4.0				
S BMVW-1	MT20	4.0	9.0			Edge	
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.							
LOADING							
TOTAL LOAD CASES: (4)							
CHORDS							
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH	
FR-TO				FR-TO			
A-B	0/28	-91.8	-91.8 0.12 (1)	10.00	C-R	0/91	0.03 (4)
B-C	0/18	-91.8	-91.8 0.20 (1)	10.00	R-D	0/121	0.04 (4)
C-D	-2757/0	-91.8	-91.8 0.31 (1)	3.91	D-P	0/1222	0.27 (1)
D-E	-3425/0	-91.8	-91.8 0.88 (1)	3.03	P-E	-629/0	0.24 (1)
E-F	-3425/0	-91.8	-91.8 0.87 (1)	3.03	E-O	-2/0	0.00 (1)
F-G	-3425/0	-91.8	-91.8 0.31 (1)	3.91	O-G	-629/0	0.24 (1)
G-H	-3425/0	-91.8	-91.8 0.87 (1)	3.04	O-H	0/1220	0.27 (1)
H-I	-2757/0	-91.8	-91.8 0.20 (1)	10.00	M-I	0/122	0.04 (4)
I-J	0/18	-91.8	-91.8 0.12 (1)	7.61	I-L	0/91	0.03 (4)
J-K	0/28	-91.8	-91.8 0.20 (1)	10.00	S-C	-2934/0	0.82 (1)
S-B	-270/0	0.0	0.0 0.03 (1)	7.61	I-L	-2934/0	0.82 (1)
L-J	-270/0	0.0	0.0 0.03 (1)	7.61			
S-R	0/2385	-18.5	-18.5 0.52 (1)	10.00			
R-Q	0/2451	-18.5	-18.5 0.53 (1)	10.00			
Q-P	0/2451	-18.5	-18.5 0.53 (1)	10.00			
P-O	0/3426	-18.5	-18.5 0.83 (1)	10.00			
O-N	0/2451	-18.5	-18.5 0.53 (1)	10.00			
N-M	0/2451	-18.5	-18.5 0.53 (1)	10.00			
M-L	0/2385	-18.5	-18.5 0.52 (1)	10.00			



Structural component only
DWG# T-2007957

JOB NAME 408314	TRUSS NAME T62	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.310 9 Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 08:32:20 2020 Page 1
ID:55GeBk99WNGszVGuuF_Z1BzB3-VWsnrMGHnN1 CC7NblLwUQmkSBOMsZ7IUIzLbWf
34-9-0 36-0-8 1-3-8
Scale = 1:57.0



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

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	IN-SX	IN-SX		
R	2040	0	2040	0	0	5-8	5-8		
J	2040	0	2040	0	0	5-8	5-8		

UNFACTORED REACTIONS									
1ST CASE	MAX. MIN.	COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL		
R	1440	958 / 0	0 / 0	0 / 0	0 / 0	482 / 0	0 / 0		
J	1440	958 / 0	0 / 0	0 / 0	0 / 0	482 / 0	0 / 0		

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) R, J
BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.97 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	FACTORED	VERT. LOAD	LC1	MAX.	MAX.	MEMB.	MAX. FACTORED	FACTORED
	FORCE	FORCE	FORCE	FORCE	FORCE	FORCE		FORCE	FORCE
	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)		(LBS)	(LBS)
FR-TO	FROM	TO	FROM	TO	FROM	TO	FR-TO	FROM	TO
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00	Q-C	-348 / 0	0.08 (1)	
B-C	-2798 / 0	-91.8	-91.8	0.39 (1)	3.83	C-P	-217 / 0	0.13 (1)	
C-D	-2943 / 0	-91.8	-91.8	0.37 (1)	3.84	P-D	0 / 247	0.06 (4)	
D-E	-2984 / 0	-91.8	-91.8	0.50 (1)	2.87	D-N	0 / 808	0.18 (1)	
E-F	-2984 / 0	-91.8	-91.8	0.37 (1)	2.87	N-E	-848 / 0	0.50 (1)	
F-G	-2984 / 0	-91.8	-91.8	0.39 (1)	3.84	N-F	0 / 808	0.18 (1)	
G-H	-2798 / 0	-91.8	-91.8	0.12 (1)	3.83	L-F	0 / 247	0.06 (4)	
H-I	0 / 28	-91.8	-91.8	0.12 (1)	10.00	L-G	-217 / 0	0.13 (1)	
R-B	-1995 / 0	0.0	0.0	0.20 (1)	5.97	K-G	-348 / 0	0.08 (1)	
J-H	-1995 / 0	0.0	0.0	0.20 (1)	5.97	B-Q	0 / 2557	0.58 (1)	
R-Q	0 / 0	-18.5	-18.5	0.10 (4)	10.00	K-H	0 / 2557	0.58 (1)	
Q-P	0 / 2521	-18.5	-18.5	0.50 (1)	10.00				
P-O	0 / 2348	-18.5	-18.5	0.48 (1)	10.00				
O-N	0 / 2348	-18.5	-18.5	0.48 (1)	10.00				
N-M	0 / 2348	-18.5	-18.5	0.48 (1)	10.00				
M-L	0 / 2348	-18.5	-18.5	0.48 (1)	10.00				
L-K	0 / 2521	-18.5	-18.5	0.50 (1)	10.00				
K-J	0 / 0	-18.5	-18.5	0.10 (4)	10.00				

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

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. 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, NBC 2010, NBCC 2015

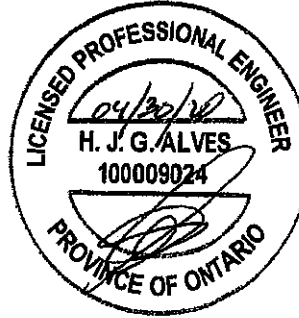
THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2010, NBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2015 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(56 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.16")
CALCULATED VERT. DEFL. (LL) = L/999 (0.17")
ALLOWABLE DEFL. (TL) = L/360 (1.16")
CALCULATED VERT. DEFL. (TL) = L/999 (0.32")

CSI: TC=0.90/1.00 (E-F:1), BC=0.50/1.00 (P-Q:1),
WB=0.68/1.00 (B-C:1), SS=0.33/1.00 (E-F:1)

DOL LUMBER=1.00 NAIL=1.00 LBS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10
COMPANION LIVE LOAD FACTOR = 1.00

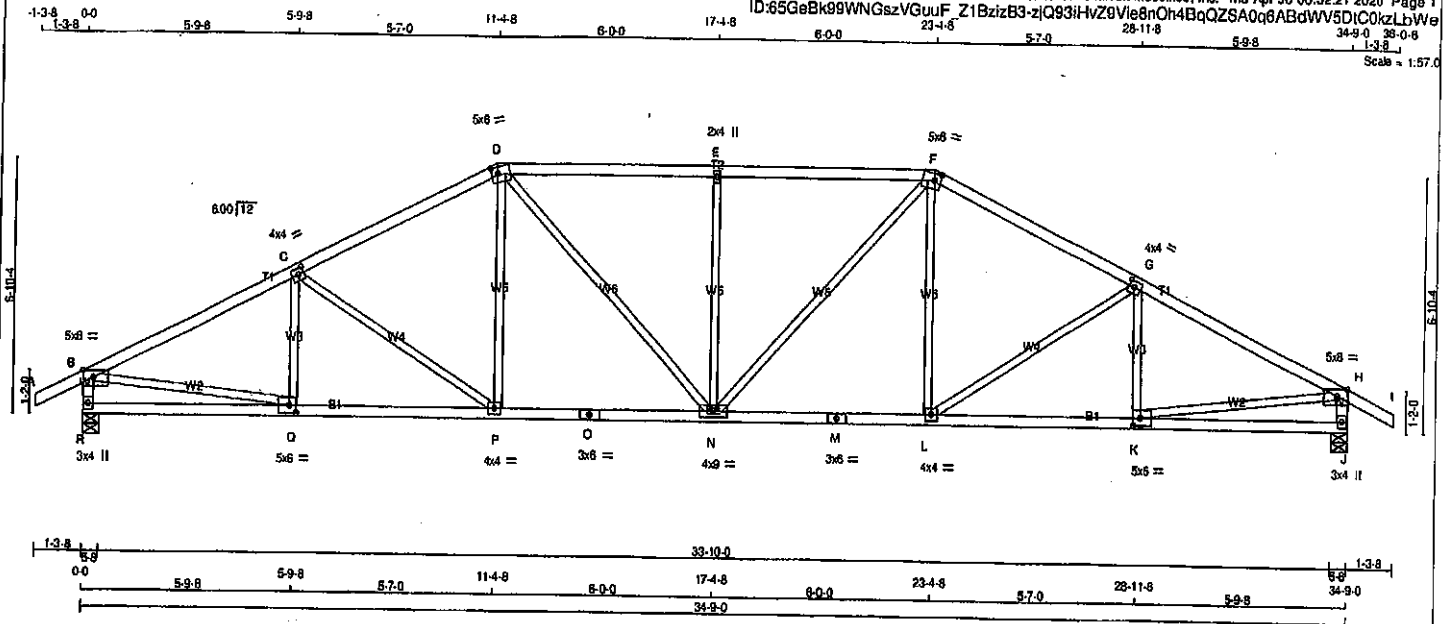


Structural component only
DWG# T-2007958

JOB NAME 408314	TRUSS NAME T63	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 08:32:21 2020 Page 1
ID:65GeBk99WNGszVGUuF Z1BzizB3-zjQ93iHvZ9Vie8nOf4BqQZSA0q6ABdWV5D1C0kzLbWw
23-4-8 28-11-8 34-9-0 38-0-8
Scale = 1:57.0



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 is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	Edge	3.50
C	TMVW-i	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-i	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-i	MT20	5.0	6.0	2.50	2.25
L	BMVW-i	MT20	4.0	4.0		
M	BS-i	MT20	3.0	6.0		
N	BMVW-i	MT20	4.0	4.0		
O	BS-i	MT20	3.0	6.0		
P	BMVW-i	MT20	4.0	4.0		
Q	BMVW-i	MT20	5.0	6.0	2.50	2.25
R	BMV1-p	MT20	3.0	4.0		

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

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

CONTRACTOR								
BEARINGS								
FACTORED				MAXIMUM FACTORED			INPUT	RECORD
GROSS REACTION				GROSS REACTION			BRG	BRG
JT	VERT	HORZ		DOWN	HORZ	UPLIFT	IN-SX	IN-SX
R	2040	0		2040	0	0	5-8	5-8
J	2040	0		2040	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LOASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1440	958/0	0/0	0/0	0/0	0/0	482/0	0/0
J	1440	958/0	0/0	0/0	0/0	0/0	482/0	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 = 3.67 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. CSI (LC)	MEMB.	MAX. FORCE (LBS)	MAX. CSI (LC)	MAX. CSI (LC)
FR-TO				FR-TO			
A-B	0/28	-91.8	-91.8 0.12 (1)	Q-C	-271/2	0.07 (1)	
B-C	-2840/0	-91.8	-91.8 0.52 (1)	C-P	-387/0	0.34 (1)	
C-D	-2534/0	-91.8	-91.8 0.48 (1)	P-D	0/326	0.07 (1)	
D-E	-2803/0	-91.8	-91.8 0.53 (1)	D-N	-875/0	0.12 (1)	
E-F	-2803/0	-91.8	-91.8 0.53 (1)	N-E	0/529	0.54 (1)	
F-G	-2534/0	-91.8	-91.8 0.48 (1)	N-F	0/529	0.12 (1)	
G-H	-2840/0	-91.8	-91.8 0.52 (1)	L-F	-387/0	0.34 (1)	
H-I	0/28	-91.8	-91.8 0.12 (1)	L-G	-387/0	0.07 (1)	
R-B	-1992/0	0.0	0.0 0.20 (1)	K-G	-271/2	0.07 (1)	
J-H	-1992/0	0.0	0.0 0.20 (1)	B-Q	0/2592	0.58 (1)	
R-Q	0/0	-18.5	-18.5 0.13 (4)	K-H	0/2592	0.58 (1)	
Q-P	0/2564	-18.5	-18.5 0.48 (1)				
P-O	0/2245	-18.5	-18.5 0.43 (1)				
O-N	0/2245	-18.5	-18.5 0.43 (1)				
N-M	0/2245	-18.5	-18.5 0.43 (1)				
M-L	0/2245	-18.5	-18.5 0.43 (1)				
L-K	0/2564	-18.5	-18.5 0.48 (1)				
K-J	0/0	-18.5	-18.5 0.13 (4)				

TOTAL WEIGHT = 142 lb (M/F)

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL. (LL) = L/360 (1.16")
CALCULATED VERT. DEFL. (LL) = L/999 (0.15")
ALLOWABLE DEFL. (TL) = L/360 (1.16")
CALCULATED VERT. DEFL. (TL) = L/999 (0.28")

CSI: TC=0.59/1.00 (E-F:1), BC=0.48/1.00 (P-Q:1),
WB=0.58/1.00 (B-C:1), SB=0.27/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1858

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

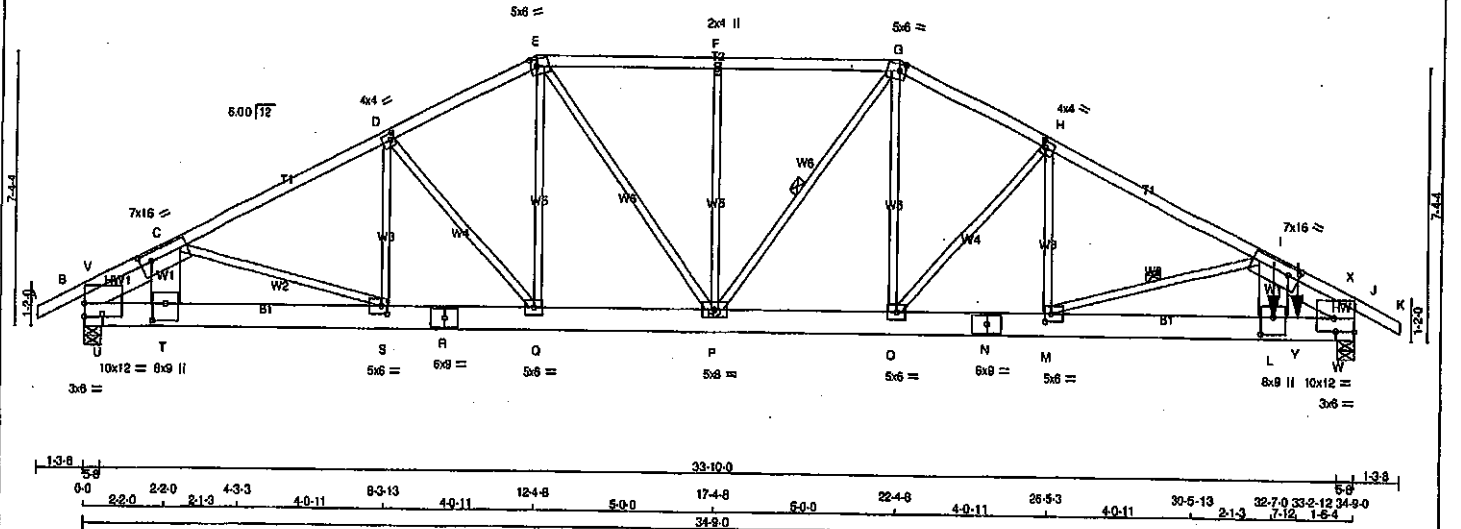
JSI GRIP = 0.88 (Q) (INPUT = 0.90)
JSI METAL = 0.71 (M) (INPUT = 1.00)



Structural component only
DWG# T-2007959

JOB NAME 408314	TRUSS NAME T64	QUANTITY 1	PLY 3	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 08:32:23 2020 Page 1
 ID:85G6Bk99WNGszVGUuF_Z1BzB3-Rv YG2HYKSdzGIMbFol3zm_PVEOGw3NeKicIZAZLbWd
 1-3-8 0-0 2-2-0 2-2-0 2-1-3 4-3-3 4-0-11 8-3-13 4-0-11 12-4-8 5-0-0 17-4-8 22-4-8 5-0-0 4-0-11 4-0-11 30-5-13 32-7-0 34-9-0 36-0-8 1-3-8
 Scale = 1:57.0



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	DRY	LUMBER
A - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
G - K	2x4	DRY	No.2
B - R	2x8	DRY	No.2
R - N	2x8	DRY	No.2
N - J	2x8	DRY	No.2

REINFORCING MEMBERS
 HW1 2x8 DRY No.2
 HW2 2x8 DRY No.2

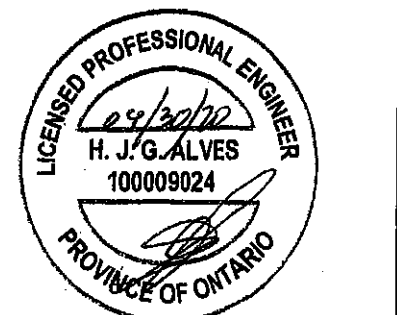
ALL WEBS 2x3 DRY No.2
 EXCEPT
 T - C 2x10 DRY No.2
 L - I 2x10 DRY No.2

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - E 1 12	TOP	
E - G 1 12	TOP	
G - K 1 12	TOP	
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
B - R 4 4	TOP	
R - N 2 12	TOP	
N - J 4 4	TOP	
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1 6	TOP	
2x6 2 6	TOP	
L - I 5 4	TOP	
2x10 5 4	TOP	

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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

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



Structural component only
 DWG# T-2007960 1/2

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

BEARINGS			
	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT RECD
JT	VERT	HORZ	BRG
B	2684	0	2684
J	12053	0	12053

UNFACTORED REACTIONS			
1ST LOASE	MAX/MIN	COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE
B	1695	1281	0
J	8510	5665	0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, J
 BEARING SIZE FACTOR = 1.15 AT JOINT(S) J (BASED ON SUPPORT DEPTH = 1-8)

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. FURLIN SPACING = 3.83 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF G-P, I-M

LOADING
 TOTAL LOAD CASES: (4)

CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO			
A-B	-1799	-91.8	-91.8
B-V	-803	-91.8	-91.8
V-C	-4049	-91.8	-91.8
C-D	-3796	-91.8	-91.8
D-E	-4068	-91.8	-91.8
E-F	-4068	-91.8	-91.8
F-G	-4799	-91.8	-91.8
G-H	-6833	-91.8	-91.8
H-I	-4581	-91.8	-91.8
I-X	-9111	-91.8	-91.8
X-J	-179	-91.8	-91.8
J-K			
B-U	0/781	-18.5	-18.5
U-T	0/3086	-18.5	-18.5
T-S	0/3085	-18.5	-18.5
S-R	0/3823	-18.5	-18.5
R-Q	0/3823	-18.5	-18.5
Q-P	0/3378	-18.5	-18.5
P-O	0/4280	-18.5	-18.5
O-N	0/6135	-18.5	-18.5
N-M	0/6135	-18.5	-18.5
M-L	0/12694	-18.5	-18.5
L-V	0/13080	-18.5	-18.5
V-W	0/13080	-18.5	-18.5
W-J	0/4015	-18.5	-18.5

FACTORED CONCENTRATED LOADS (LBS)			
LOC.	LC1	MAX.	MAX.
L	32-7-0	-9536	-9536
Y	33-2-12	-1121	-1121

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 3 X 201 = 602 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 = 22.0 IN. OC

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

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

THIS DESIGN COMPLIES WITH:
 - PART 9 OF NBCC 2018, OBC 2012, ABC 2019
 - PART 9 OF OBC 2012 (2019 AMENDMENT)
 - CSA 088-08, CSA 088-14
 - TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) = 1/360 (1.16")
 CALCULATED VERT. DEFL. (LL) = 1/999 (0.08")
 ALLOWABLE DEFL. (TL) = 1/360 (1.16")
 CALCULATED VERT. DEFL. (TL) = 1/999 (0.15")

CS: TC=0.28/1.0 (H=1:1), BC=0.75/1.0 (L-W=1), WB=0.67/1.0 (H-O=1), SS=0.66/1.0 (J-W=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)	(PL)	(PL)	
MAX MIN	MAX MIN	MAX MIN	
MT20	616	354	1687
	768	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (S) (INPUT = 0.80)
 JSI METAL= 0.84 (L) (INPUT = 1.00)

JOB NAME 408314	TRUSS NAME T64	QUANTITY 1	PLY 3	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.310 S Oct 29 2019 Mtek Industries, Inc. Thu Apr 30 08:32:23 2020 Page 2 ID:65GeBk99WNGszVGuyF Z1BzizB3-w5YwUOIA5mmQuRxnVDIV XaFekVfWdoYXMJ5dztbWc	

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMBMW1-I	MT20	10.0	12.0	4.25	
B	TP-I	MT20	3.0	6.0	3.25	6.00
C	TMWWW-I	MT20	7.0	18.0	2.75	3.50
D	TMWW-I	MT20	4.0	4.0	2.00	1.25
E	TTWW-m	MT20	5.0	6.0	2.25	2.00
F	TMW-w	MT20	2.0	4.0		
G	TTWW-m	MT20	8.0	8.0	2.25	2.00
H	TMWW-I	MT20	4.0	4.0	2.00	1.25
I	TMWWW-I	MT20	7.0	18.0	2.75	3.50
J	TMBMW1-I	MT20	10.0	12.0	4.25	Edge
J	TP-I	MT20	3.0	6.0	4.25	0.50
L	BMW-w	MT20	8.0	9.0	5.50	4.00
M	BMWW-I	MT20	5.0	6.0	2.50	2.00
N	BS-I	MT20	6.0	9.0		
O	BMWW-I	MT20	5.0	6.0		
P	BMWWW-I	MT20	5.0	8.0		
Q	BMWW-I	MT20	5.0	6.0		
R	BS-I	MT20	6.0	9.0		
S	BMWW-I	MT20	5.0	8.0	2.50	2.00
T	BMW-w	MT20	8.0	9.0	5.50	4.00

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



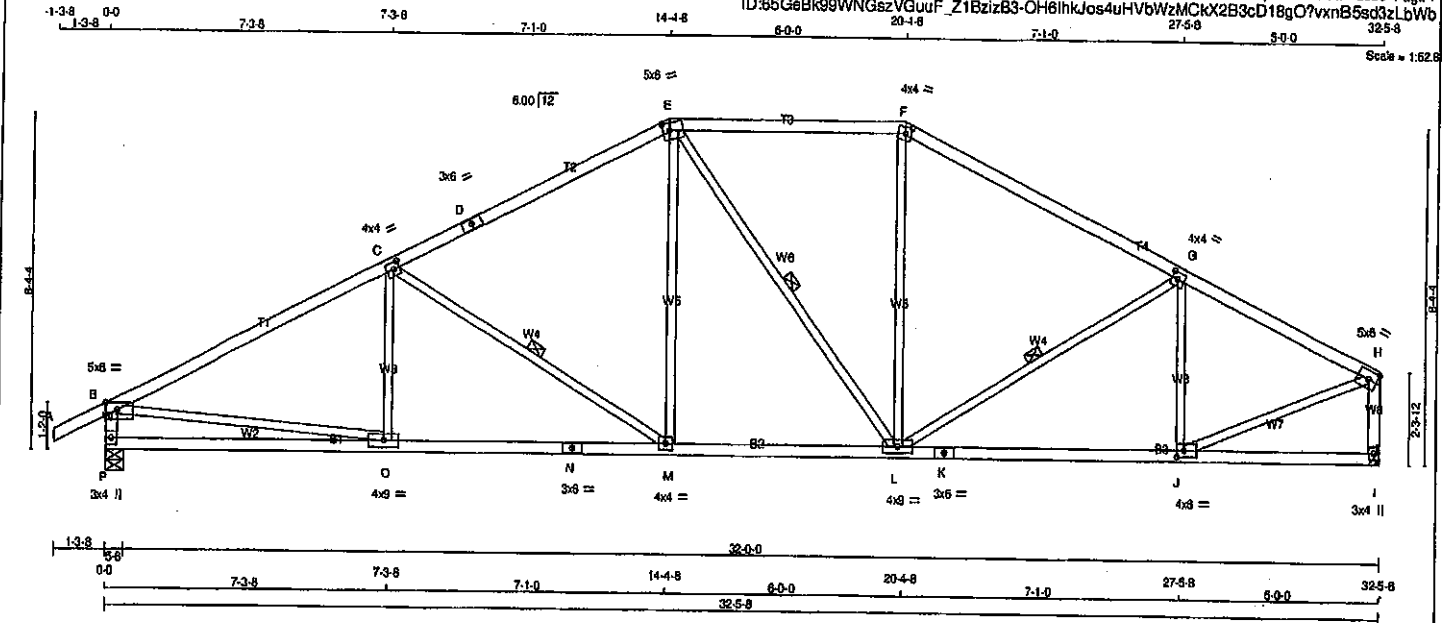
Structural component only
DWG# T-2007980 *2/2*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408314	T65	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 133 = 266 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
P - B	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 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

PLATES (tablets in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	Edge	3.50
C	TMVW-t	MT20	4.0	4.0	2.00	1.75
D	TS-t	MT20	3.0	8.0		
E	TTW-m	MT20	5.0	6.0	2.25	2.00
F	TTW-m	MT20	4.0	4.0	2.00	1.75
G	TMVW-t	MT20	4.0	4.0	2.00	1.75
H	TMVW-t	MT20	5.0	6.0	Edge	
I	BMV-t	MT20	3.0	4.0		
J	BMVW-t	MT20	4.0	6.0	2.00	2.25
K	BS-t	MT20	3.0	6.0		
L	BMVW-t	MT20	4.0	4.0		
M	BMVW-t	MT20	4.0	4.0		
N	BS-t	MT20	3.0	6.0		
O	BMVW-t	MT20	4.0	6.0		
P	BMV-t	MT20	3.0	4.0		

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

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
P	1914	0	1914	0
I	1789	0	1789	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
P	1351	900/0	0/0	0/0	0/0	451/0	0/0
I	1285	830/0	0/0	0/0	0/0	435/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.32 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-M, E-L, G-L.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0/28	-91.8	-91.8 0.12 (1)	10.00	C-C	-132/77	0.05 (1)
B-C	-2839/0	-91.8	-91.8 0.85 (1)	3.32	C-M	-721/0	0.35 (1)
C-D	-2028/0	-91.8	-91.8 0.74 (1)	3.88	M-E	0/497	0.11 (1)
D-E	-2028/0	-91.8	-91.8 0.74 (1)	3.88	E-L	-154/0	0.11 (1)
E-F	-1896/0	-91.8	-91.8 0.47 (1)	4.57	L-F	0/310	0.07 (1)
F-G	-1920/0	-91.8	-91.8 0.65 (1)	4.11	L-G	-117/0	0.08 (1)
G-H	-1983/0	-91.8	-91.8 0.52 (1)	4.22	J-G	-595/0	0.20 (1)
Q-H	-1858/0	0.0	0.0 0.19 (1)	8.15	B-O	0/2408	0.54 (1)
P-B	-1858/0	0.0	0.0 0.22 (1)	8.29	J-H	0/1930	0.43 (1)
I-H	-1755/0	0.0	0.0 0.22 (1)	8.29			
P-O	0/0	-18.5	-18.5 0.23 (4)	10.00			
O-N	0/2391	-18.5	-18.5 0.50 (1)	10.00			
N-M	0/2391	-18.5	-18.5 0.50 (1)	10.00			
M-L	0/1787	-18.5	-18.5 0.38 (1)	10.00			
L-K	0/1791	-18.5	-18.5 0.38 (1)	10.00			
K-J	0/1791	-18.5	-18.5 0.38 (1)	10.00			
J-I	0/0	-18.5	-18.5 0.16 (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 8.00/12

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

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

(56 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.08")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (1.08")
CALCULATED VERT. DEFL.(TL) = L/999 (0.23")

CSI: TC=0.85/1.00 (B-C:1), BC=0.50/1.00 (M-O:1), WB=0.54/1.00 (B-O:1), SSI=0.29/1.00 (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
MT20	618	354	1887 788 1987 1658

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.90 (O) (INPUT = 0.90)
JSI METAL= 0.79 (N) (INPUT = 1.00)



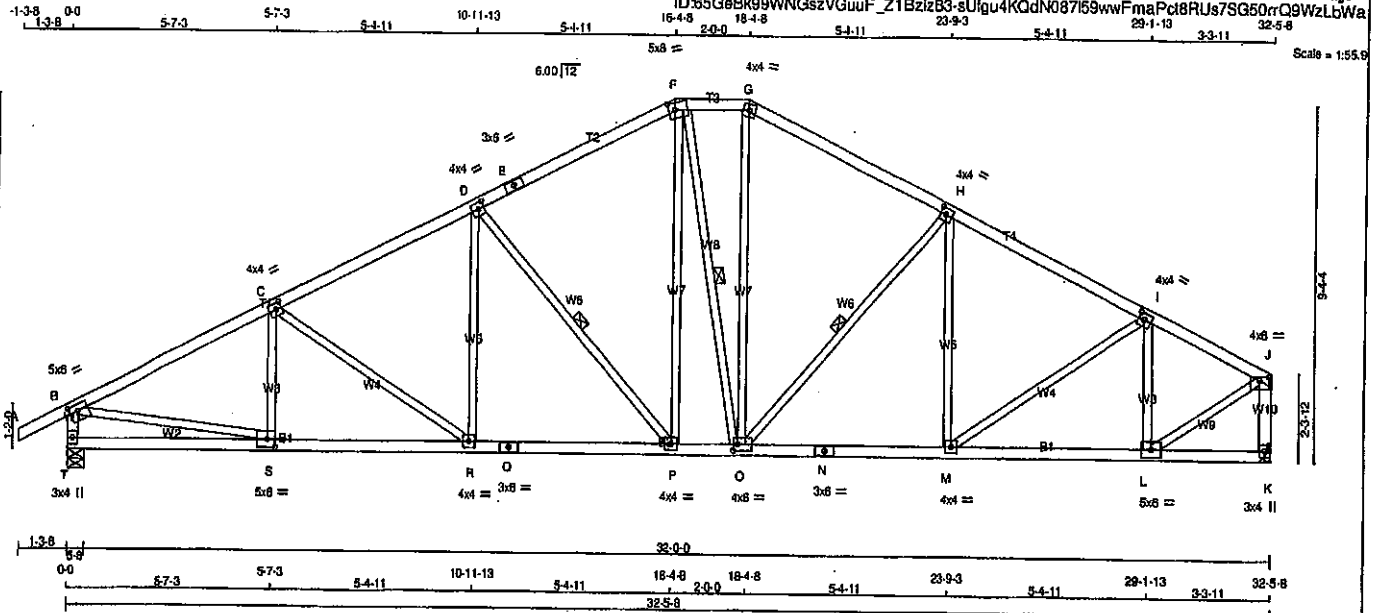
Structural component only
DWG# T-2007961

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408314	T66	2	1	GREEN PARK HOMES	

Tamercak Roof Truss, Burlington

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LUMBER			
N. L. G. A. RULES	SIZE	DRY	LUMBER
CHORDS	2x4	DRY	No.2
A - E	2x4	DRY	No.2
F - J	2x4	DRY	No.2
G - L	2x4	DRY	No.2
T - B	2x4	DRY	No.2
K - Q	2x4	DRY	No.2
R - S	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-1	MT20	5.0	0.0 2.00 2.75
C, D, H, I			
E - TMVW-1	MT20	4.0	4.0 2.00 1.75
F - TS-1	MT20	3.0	8.0
G - TTW-m	MT20	5.0	6.0 2.25 2.00
H - TTW-m	MT20	4.0	4.0
J - TMVW-p	MT20	4.0	6.0 1.25 3.00
K - BMV1-p	MT20	3.0	4.0
L - BMVW-1	MT20	5.0	8.0
M, P, R			
M - BMVW-1	MT20	4.0	4.0
N - BS-1	MT20	3.0	6.0
O - BMVWV-1	MT20	4.0	8.0 2.00 1.50
Q - BS-1	MT20	3.0	6.0
S - BMVW-1	MT20	5.0	6.0 2.50 2.50
T - BMV1-p	MT20	3.0	4.0

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	UP
T	1914	0	1814	0
K	1789	0	1789	0

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
T	1351	900 / 0	0 / 0	0 / 0	0 / 0	451 / 0	0 / 0
K	1285	830 / 0	0 / 0	0 / 0	0 / 0	435 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.89 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF D-P, F-Q, H-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				WEBS			
MAX. FACTORED		FACTORED		MAX. FACTORED		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX CSI (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
A-B	0 / 28	-91.8 -91.8	0.12 (1)	10.00	S-C	-254 / 3	0.08 (1)
B-C	-2802 / 0	-91.8 -91.8	0.48 (1)	3.89	C-R	-303 / 0	0.23 (1)
C-D	-2342 / 0	-91.8 -91.8	0.37 (1)	4.18	R-D	0 / 278	0.08 (1)
D-E	-1809 / 0	-91.8 -91.8	0.36 (1)	4.62	D-P	-759 / 0	0.38 (1)
E-F	-1809 / 0	-91.8 -91.8	0.36 (1)	4.62	P-F	0 / 619	0.14 (1)
F-G	-1583 / 0	-91.8 -91.8	0.07 (1)	5.20	F-O	-110 / 0	0.07 (1)
G-H	-1788 / 0	-91.8 -91.8	0.36 (1)	4.84	O-G	0 / 505	0.11 (1)
H-I	-2051 / 0	-91.8 -91.8	0.37 (1)	4.38	O-H	-408 / 0	0.20 (1)
I-J	-1658 / 0	-91.8 -91.8	0.19 (1)	4.97	M-H	-132 / 40	0.10 (1)
T-B	-1888 / 0	0.0 0.0	0.19 (1)	6.13	M-I	0 / 414	0.09 (1)
K-J	-1767 / 0	0.0 0.0	0.22 (1)	6.28	L-I	-824 / 0	0.20 (1)
					B-S	0 / 2373	0.53 (1)
					L-J	0 / 1758	0.40 (1)
T-S	0 / 0	-18.5 -18.5	0.12 (4)	10.00			
S-R	0 / 2348	-18.5 -18.5	0.44 (1)	10.00			
R-Q	0 / 2095	-18.5 -18.5	0.40 (1)	10.00			
Q-P	0 / 2085	-18.5 -18.5	0.40 (1)	10.00			
P-O	0 / 1805	-18.5 -18.5	0.33 (1)	10.00			
O-N	0 / 1844	-18.5 -18.5	0.36 (1)	10.00			
N-M	0 / 1844	-18.5 -18.5	0.36 (1)	10.00			
M-L	0 / 1502	-18.5 -18.5	0.29 (1)	10.00			
L-K	0 / 0	-18.5 -18.5	0.08 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. OC

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

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

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

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

ALLOWABLE DEFL. (LL) = L/360 (1.08")
CALCULATED VERT. DEFL. (LL) = L/999 (0.11")
ALLOWABLE DEFL. (TL) = L/360 (1.08")
CALCULATED VERT. DEFL. (TL) = L/999 (0.21")

CS: TG=0.48/1.00 (B-C:1), BC=0.44/1.00 (R-S:1), WB=0.53/1.00 (B-S:1), SS=0.21/1.00 (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
MT20 518 354 1667 785 1987 1858

PLATE PLACEMENT TOL. = 0.250 inches

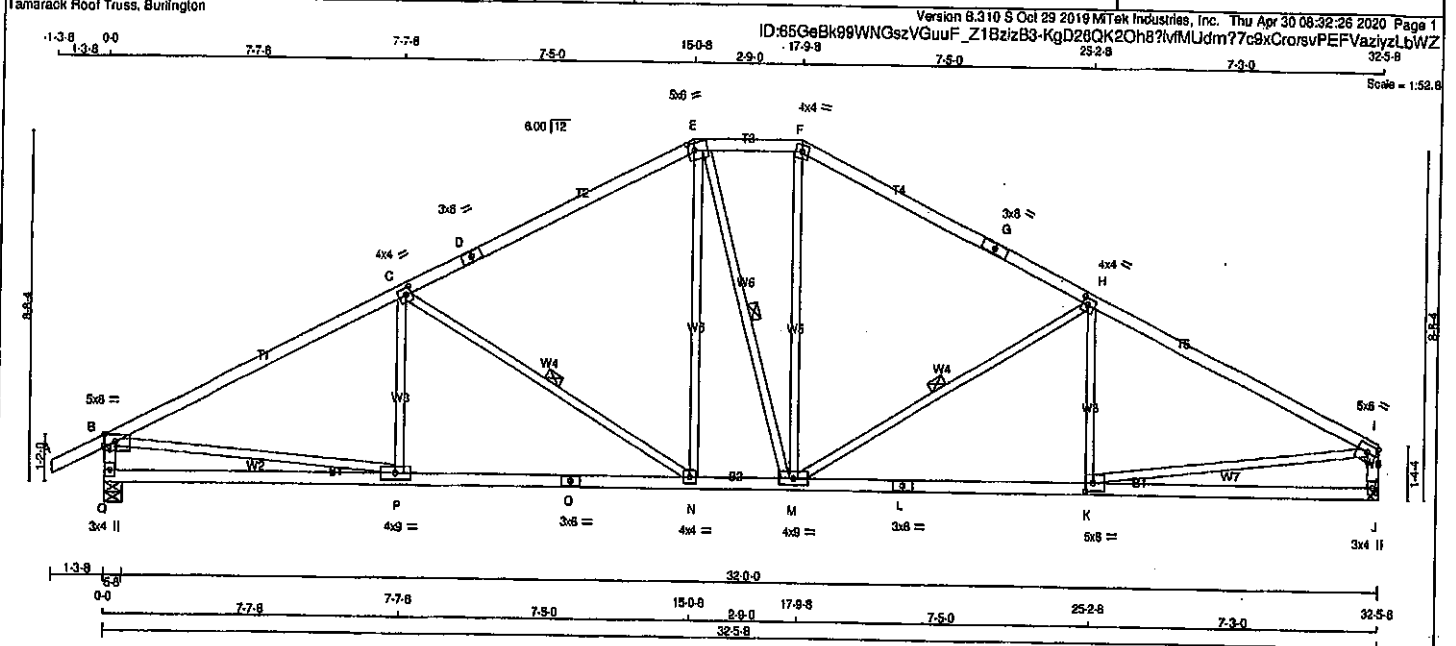
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (B) (INPUT = 0.90)
JSI METAL= 0.69 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007962

JOB NAME 408314	TRUSS NAME T67	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.310 5 Oct 29 2019 MTak Industries, Inc. Thu Apr 30 08:32:26 2020 Page 1			



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
E - F	2x4	DRY	No.2
G - H	2x4	DRY	No.2
I - J	2x4	DRY	No.2
K - L	2x4	DRY	No.2
M - N	2x4	DRY	No.2
O - P	2x4	DRY	No.2
Q - R	2x4	DRY	No.2
S - T	2x4	DRY	No.2
U - V	2x4	DRY	No.2
W - X	2x4	DRY	No.2
Y - Z	2x4	DRY	No.2
AA - AB	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (tab/s 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	TS-l	MT20	3.0 6.0
E	TTW-m	MT20	5.0 8.0 2.25 2.00
F	TTW-m	MT20	4.0 4.0
G	TS-l	MT20	3.0 6.0
H	TMVW-l	MT20	4.0 4.0 2.00 1.75
I	TMVW-l	MT20	5.0 8.0 2.25 Edge
J	BMV-l+p	MT20	3.0 4.0
K	BMVW-l	MT20	5.0 8.0 2.50 2.50
L	BS-l	MT20	3.0 6.0
M	BMVW-l	MT20	4.0 9.0
N	BMVW-l	MT20	4.0 4.0
O	BS-l	MT20	3.0 6.0
P	BMVW-l	MT20	4.0 9.0
Q	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	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	DOWN	UP	BRG
Q	1914 0	1914 0	0 0	5-8	5-8
J	1789 0	1789 0	0 0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	1351	900/0	0/0	0/0	0/0	451/0	0/0
J	1265	830/0	0/0	0/0	0/0	435/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.15 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MEMB.
FR-TO				FR-TO			
A-B	0/28	-91.8	-91.8 0.12 (1)	10.00	P-C	-110/92	0.04 (1)
B-C	-2635/0	-91.8	-91.8 0.95 (1)	3.15	C-N	-787/0	0.43 (1)
C-D	-1984/0	-91.8	-91.8 0.81 (1)	3.75	N-E	0/496	0.11 (1)
D-E	-1984/0	-91.8	-91.8 0.81 (1)	3.75	E-M	-18/0	0.01 (1)
E-F	-1723/0	-91.8	-91.8 0.12 (1)	4.98	M-F	0/475	0.11 (1)
F-G	-1957/0	-91.8	-91.8 0.78 (1)	3.82	M-H	-690/0	0.37 (1)
G-H	-1957/0	-91.8	-91.8 0.78 (1)	3.82	H-K	-180/63	0.07 (1)
H-I	-2539/0	-91.8	-91.8 0.85 (1)	3.38	B-P	0/2405	0.54 (1)
Q-B	-1656/0	0.0	0.0 0.19 (1)	6.15	K-I	0/2328	0.52 (1)
J-I	-1734/0	0.0	0.0 0.18 (1)	6.32			
Q-P	0/0	-18.5	-18.5 0.28 (4)	10.00			
P-O	0/2390	-18.5	-18.5 0.52 (1)	10.00			
O-N	0/2390	-18.5	-18.5 0.52 (1)	10.00			
N-M	0/1728	-18.5	-18.5 0.36 (1)	10.00			
M-L	0/2304	-18.5	-18.5 0.49 (1)	10.00			
L-K	0/2304	-18.5	-18.5 0.49 (1)	10.00			
K-J	0/0	-18.5	-18.5 0.25 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 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 26.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.08")
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")
ALLOWABLE DEFL.(TL) = L/360 (1.08")
CALCULATED VERT. DEFL.(TL) = L/999 (0.26")

CSI: TC=0.95/1.00 (B-C:1), BC=0.52/1.00 (N-P:1), WB=0.54/1.00 (B-P:1), SS=0.30/1.00 (B-C: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 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.90 (I) (INPUT = 0.90)
JSI METAL = 0.83 (O) (INPUT = 1.00)



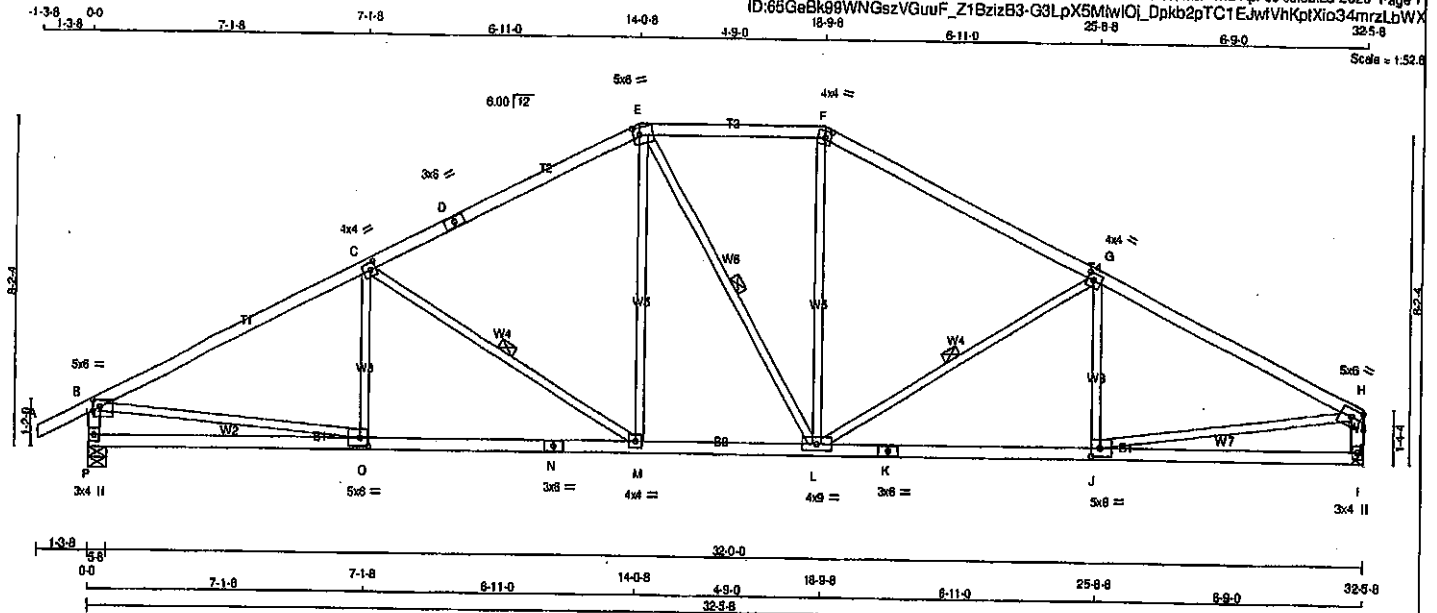
Structural component only
DWG# T-2007963

JOB NAME 408314	TRUSS NAME T68	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					

Famareck Roof Truss, Burlington

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325-8
Scale = 1:50.0



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	
CHORDS			
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
P - B	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	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	2.00 2.25
C	TMWW-1	MT20	4.0	4.0	2.00 1.75
D	TS-1	MT20	3.0	6.0	
E	TTWW-m	MT20	5.0	6.0	2.25 2.00
F	TTW-m	MT20	4.0	4.0	2.00 1.75
G	TMWW-1	MT20	4.0	4.0	2.00 1.75
H	TMVW-1	MT20	5.0	6.0	2.25 Edge
I	BMV1+p	MT20	3.0	4.0	
J	BMWW-1	MT20	5.0	6.0	2.50 2.50
K	BS-1	MT20	3.0	6.0	
L	BMWW-1	MT20	4.0	9.0	
M	BMWW-1	MT20	4.0	4.0	
N	BS-1	MT20	3.0	6.0	
O	BMWW-1	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		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	COMBINED	VERT	HORZ	DOWN	UP
P	1914	0	1914	0	0
I	1789	0	1789	0	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
P	1351	800/0	0/0	0/0	0/0	451/0	0/0
I	1285	830/0	0/0	0/0	0/0	435/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.39 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-M, E-L, G-L.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	
FR-TO				FR-TO			
A-B	0/28	-91.8	-91.8 0.12 (1)	10.00	O-C	-141/72	0.05 (1)
B-C	-2840/0	-91.8	-91.8 0.81 (1)	3.39	C-M	-691/0	0.32 (1)
C-D	-2057/0	-91.8	-91.8 0.70 (1)	3.89	M-E	0/469	0.11 (1)
D-E	-2057/0	-91.8	-91.8 0.70 (1)	3.89	E-L	-22/0	0.01 (1)
E-F	-1803/0	-91.8	-91.8 0.31 (1)	4.68	L-F	0/440	0.10 (1)
F-G	-2043/0	-91.8	-91.8 0.67 (1)	3.96	L-G	-591/0	0.28 (1)
G-H	-2534/0	-91.8	-91.8 0.72 (1)	3.58	J-G	-215/43	0.07 (1)
P-B	-1859/0	0.0	0.0 0.19 (1)	6.15	B-O	0/2409	0.54 (1)
I-H	-1738/0	0.0	0.0 0.18 (1)	6.32	J-H	0/2324	0.52 (1)
P-O	0/0	-18.5	-18.5 0.23 (4)	10.00			
O-N	0/2382	-18.5	-18.5 0.49 (1)	10.00			
N-M	0/2382	-18.5	-18.5 0.49 (1)	10.00			
M-L	0/1814	-18.5	-18.5 0.37 (1)	10.00			
L-K	0/2297	-18.5	-18.5 0.47 (1)	10.00			
K-J	0/2297	-18.5	-18.5 0.47 (1)	10.00			
J-I	0/0	-18.5	-18.5 0.21 (4)	10.00			

TOTAL WEIGHT = 132 lb (MFT)

DESIGN CRITERIA

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

SPACING = 24.0 IN. OC

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.08")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.12")
ALLOWABLE DEFL.(TL) = L/360 (1.08")
CALCULATED VERT. DEFL.(TL) = 1/999 (0.25")

CSI: TC=0.81/1.00 (B-C:1), BC=0.48/1.00 (M-O:1),
WB=0.54/1.00 (B-O:1), SS=0.28/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMPR=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 1687 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (B) (INPUT = 0.90)
JSI METAL= 0.78 (N) (INPUT = 1.00)

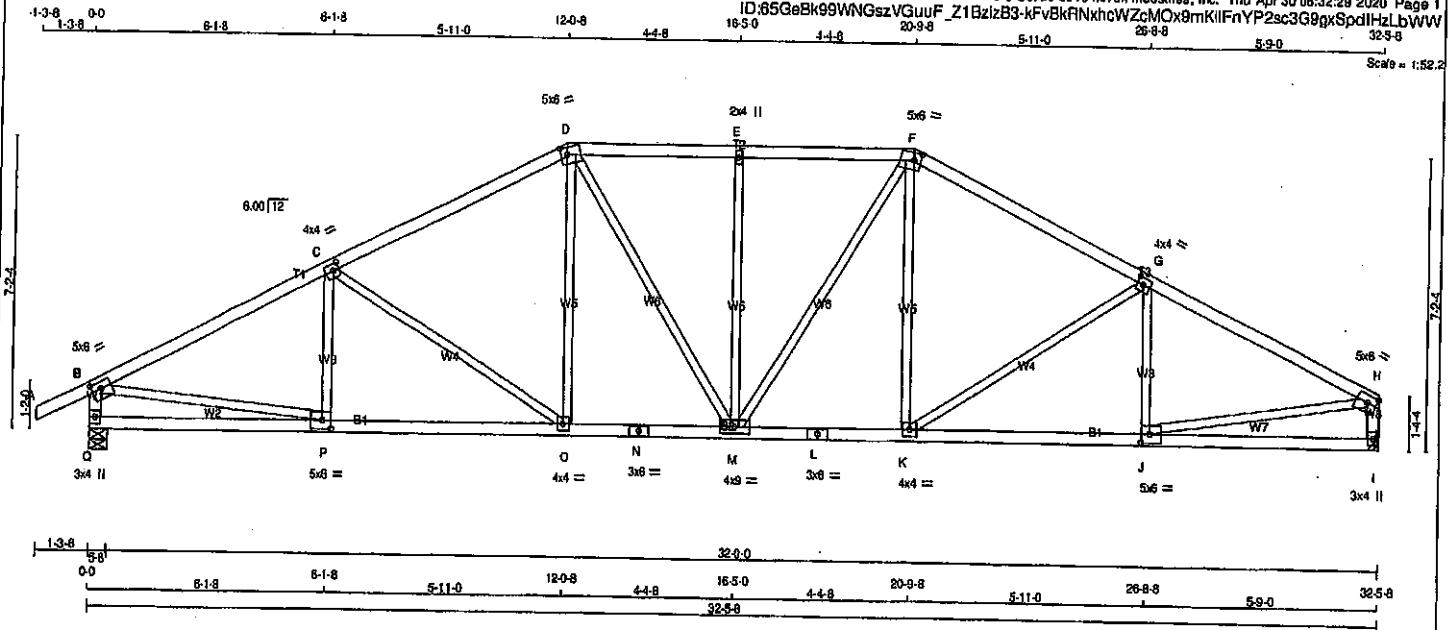


Structural component only
DWG# T-2007964

JOB NAME 408314	TRUSS NAME T69	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
				TRUSS DESC.	

Tamarack Roof Truss, Burlington

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

ALL WEBS 2x3 DRY No.2 EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	RECORD
JT	GROSS REACTION	GROSS REACTION	DOWN	UP	BRG
Q	1914	0	1914	0	5-8
I	1789	0	1789	0	5-8

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
Q	1351	900 / 0	0 / 0	0 / 0	0 / 0	451 / 0	0 / 0
I	1265	830 / 0	0 / 0	0 / 0	0 / 0	435 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.73 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	P-C	-213 / 30	0.06 (1)
B-C	-2632 / 0	-91.8	-91.8 0.57 (1)	3.73	C-D	-490 / 0	0.49 (1)
C-D	-2233 / 0	-91.8	-91.8 0.51 (1)	4.06	D-E	0 / 389	0.08 (1)
D-E	-2138 / 0	-91.8	-91.8 0.27 (1)	4.41	E-F	0 / 301	0.07 (1)
E-F	-2138 / 0	-91.8	-91.8 0.27 (1)	4.41	F-G	-468 / 0	0.44 (1)
F-G	-2203 / 0	-91.8	-91.8 0.49 (1)	4.11	G-H	0 / 350	0.08 (1)
G-H	-2508 / 0	-91.8	-91.8 0.51 (1)	3.89	H-I	0 / 312	0.07 (1)
H-I	-1865 / 0	0.0	0.0 0.19 (1)	6.14	I-J	-382 / 0	0.38 (1)
I-J	-1744 / 0	0.0	0.0 0.18 (1)	6.31	J-K	-285 / 0	0.08 (1)
					K-L	0 / 2403	0.54 (1)
					L-M	0 / 2301	0.52 (1)
Q-P	0 / 0	-18.5	-18.5 0.16 (4)	10.00			
P-O	0 / 2380	-18.5	-18.5 0.45 (1)	10.00			
O-N	0 / 1975	-18.5	-18.5 0.38 (1)	10.00			
N-M	0 / 1975	-18.5	-18.5 0.38 (1)	10.00			
M-L	0 / 1949	-18.5	-18.5 0.37 (1)	10.00			
L-K	0 / 1949	-18.5	-18.5 0.37 (1)	10.00			
K-J	0 / 2284	-18.5	-18.5 0.43 (1)	10.00			
J-I	0 / 0	-18.5	-18.5 0.14 (4)	10.00			

TOTAL WEIGHT = 136 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. CG

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = 1/899 (0.12")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = 1/899 (0.22")

CSI: TC=0.57/1.00 (B-C:1), BC=0.45/1.00 (O-P:1), WB=0.54/1.00 (B-F:1), CSI=0.24/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

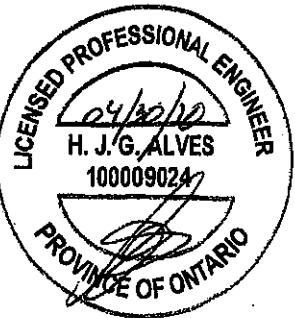
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 768 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

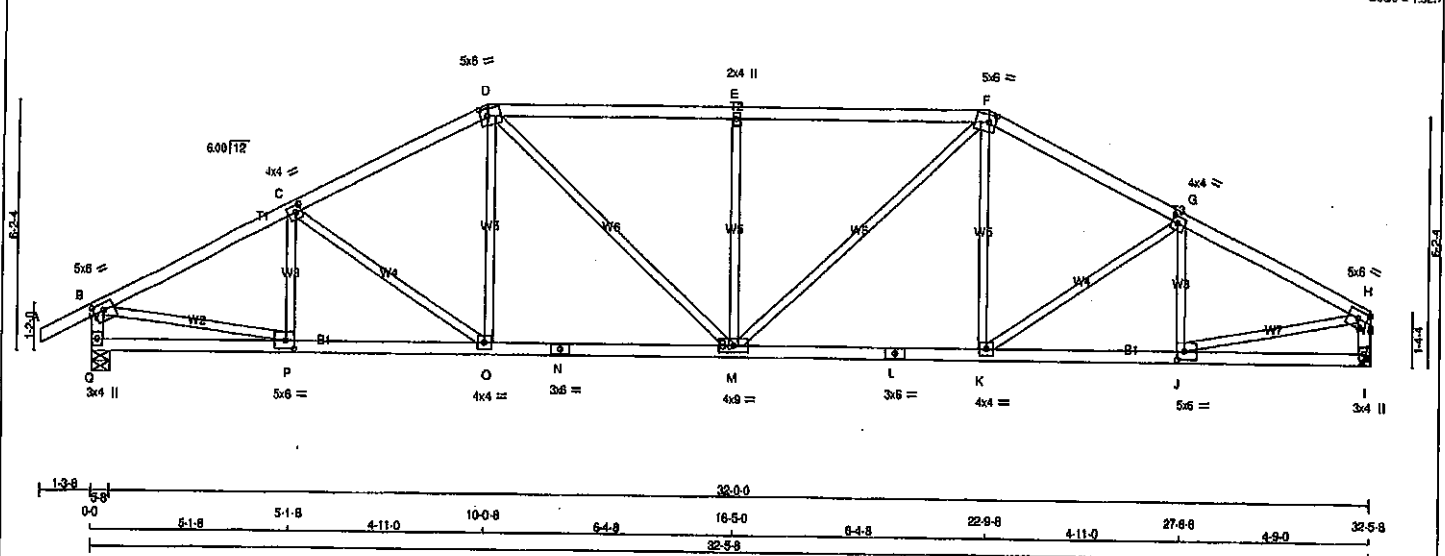
JSI METAL=0.70 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007965

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408314	T70	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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ID:65Gbk98WNGszVGuuf_Z1BzizB3-CRTZynOZSweQDWz7ITrxHSJimSCroJWq98YArJzLbWV
1-3-8 0-0 5-1-8 5-1-8 4-11-0 10-0-8 6-4-8 16-5-0 22-9-8 4-11-0 27-6-8 4-9-0 32-5-8
Scale = 1:52.7



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

DRY: SEASONED LUMBER.

PLATES (table in inches)					
JT	TYPE	PLATES	W	LEN	X
B	TMVW-I	MT20	5.0	8.0	2.00 2.75
C	TMVW-I	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-I	MT20	4.0	4.0	2.00 1.75
H	TMVW-I	MT20	5.0	8.0	2.25 Edge
I	BMV1-p	MT20	3.0	4.0	
J	BMVW-I	MT20	5.0	6.0	2.50 2.25
K	BMVW-I	MT20	4.0	4.0	
L	BS-I	MT20	3.0	6.0	
M	BMVW-I	MT20	4.0	9.0	
N	BS-I	MT20	3.0	8.0	
O	BMVW-I	MT20	4.0	4.0	
P	BMVW-I	MT20	5.0	6.0	2.50 2.50
Q	BMV1-p	MT20	3.0	4.0	

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

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT REQD BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
Q	1914	0	1914	0	0	5-8	5-8
I	1789	0	1789	0	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
Q	1351	900 / 0	0 / 0	0 / 0	0 / 0	451 / 0	0 / 0
I	1265	830 / 0	0 / 0	0 / 0	0 / 0	435 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.70 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	
FR-TO				FR-TO			
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	P-C	-301 / 0	0.07 (1)
B-C	-2593 / 0	-91.8	-91.8 0.39 (1)	3.96	C-O	-274 / 0	0.18 (1)
C-D	-2388 / 0	-91.8	-91.8 0.36 (1)	4.12	O-D	0 / 286	0.06 (1)
D-E	-2547 / 0	-91.8	-91.8 0.59 (1)	3.70	D-M	0 / 584	0.13 (1)
E-F	-2547 / 0	-91.8	-91.8 0.59 (1)	3.70	M-E	-719 / 0	0.44 (1)
F-G	-2338 / 0	-91.8	-91.8 0.34 (1)	4.19	M-F	0 / 845	0.15 (1)
G-H	-2433 / 0	-91.8	-91.8 0.34 (1)	4.11	K-F	0 / 199	0.05 (4)
Q-B	-1870 / 0	0.0	0.0 0.19 (1)	6.13	K-G	-154 / 0	0.10 (1)
I-H	-1749 / 0	0.0	0.0 0.18 (1)	6.30	J-G	-397 / 0	0.09 (1)
					B-P	0 / 2372	0.63 (1)
C-P	0 / 0	-18.5	-18.5 0.10 (4)	10.00	J-H	0 / 2249	0.51 (1)
P-O	0 / 2339	-18.5	-18.5 0.45 (1)	10.00			
O-N	0 / 2118	-18.5	-18.5 0.41 (1)	10.00			
N-M	0 / 2118	-18.5	-18.5 0.41 (1)	10.00			
M-L	0 / 2073	-18.5	-18.5 0.40 (1)	10.00			
L-K	0 / 2073	-18.5	-18.5 0.40 (1)	10.00			
K-J	0 / 2197	-18.5	-18.5 0.42 (1)	10.00			
J-I	0 / 0	-18.5	-18.5 0.09 (4)	10.00			

TOTAL WEIGHT = 130 lb (M/F)

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.08")
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")
ALLOWABLE DEFL.(TL) = L/360 (1.08")
CALCULATED VERT. DEFL.(TL) = L/999 (0.25")

CSI: TC=0.59/1.00 (D-E-1), BC=0.45/1.00 (O-P-1), WB=0.53/1.00 (B-P-1), SSI=0.28/1.00 (E-F-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(P.S.I) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 918 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

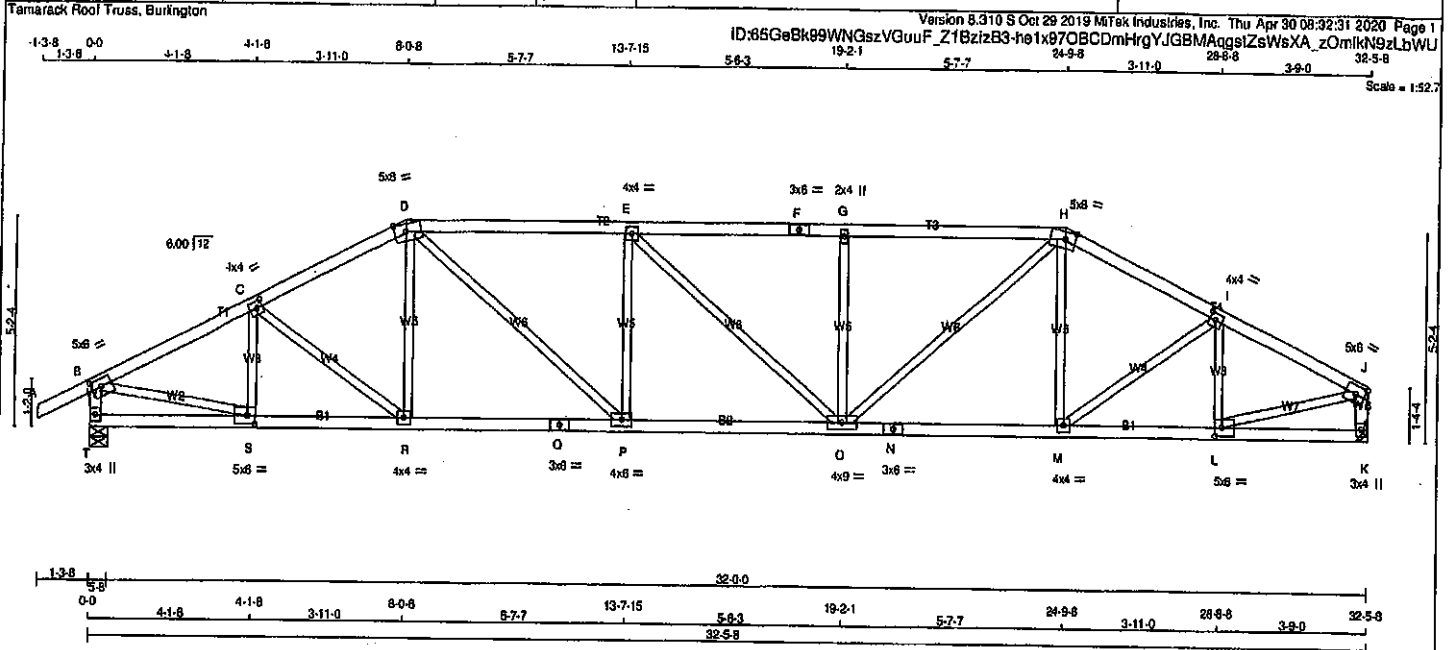
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (P) (INPUT = 0.90)
JSI METAL= 0.89 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007966

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408314	T71	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 08:32:31 2020 Page 1					
ID:86GeBk99WNGszVGuuF_Z1BzizB3-1e1x970BCDmHrgYJGBMAggsiZsWsXA_zOmikN9zLbWU					
Scale = 1:52.7					



CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - J	2x4	DRY	No.2
J - B	2x4	DRY	No.2
K - J	2x4	DRY	No.2
T - Q	2x4	DRY	No.2
O - N	2x4	DRY	No.2
N - K	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY; SEASONED LUMBER.

PLATES (tab is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMWW-1	MT20	5.0	8.0	2.25 2.75
C	TMWW-1	MT20	4.0	4.0	2.00 1.75
D	TTWW-m	MT20	5.0	8.0	2.25 3.50
E	TMWW-1	MT20	4.0	4.0	
F	TS-1	MT20	3.0	8.0	
G	TMWW-w	MT20	2.0	4.0	
H	TTWW-m	MT20	6.0	8.0	2.25 3.25
I	TMWW-1	MT20	4.0	4.0	2.00 1.75
J	TMWW-1	MT20	6.0	8.0	Edge
K	BMV1-p	MT20	3.0	4.0	
L	BMWW-1	MT20	5.0	8.0	2.50 2.25
M	BMWW-1	MT20	4.0	4.0	
N	BS-1	MT20	3.0	8.0	
O	BMWWW-1	MT20	4.0	8.0	
P	BMWW-1	MT20	4.0	8.0	
Q	BS-1	MT20	3.0	8.0	
R	BMWW-1	MT20	4.0	4.0	
S	BMWW-1	MT20	5.0	8.0	2.50 2.25
T	BMV1-p	MT20	3.0	4.0	

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	UP	IN-SX
T	1914	0	1914	0
K	1789	0	1789	0

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
T	1351	900/0	0/0	0/0	0/0	451/0	0/0
K	1265	830/0	0/0	0/0	0/0	435/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.52 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 (LBS)	MAX. FACTORED CS1 (LC)	MAX. FACTORED UNBRAC LENGTH	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS1 (LC)
FR-TO					FR-TO		
A-B	0/28	-91.8	-91.8 0.12 (1)	10.00	S-C	-406/0	0.08 (1)
B-C	-2508/0	-91.8	-91.8 0.32 (1)	4.07	C-R	-48/0	0.02 (1)
C-D	-2504/0	-91.8	-91.8 0.31 (1)	4.07	R-D	0/127	0.04 (1)
D-E	-2954/0	-91.8	-91.8 0.59 (1)	3.52	D-P	0/887	0.22 (1)
E-F	-2929/0	-91.8	-91.8 0.58 (1)	3.53	P-E	-333/0	0.21 (1)
F-G	-2929/0	-91.8	-91.8 0.58 (1)	3.53	E-O	-33/0	0.04 (1)
G-H	-2929/0	-91.8	-91.8 0.58 (1)	3.55	O-G	-553/0	0.22 (1)
H-I	-2425/0	-91.8	-91.8 0.29 (1)	4.16	O-H	0/1028	0.23 (1)
I-J	-2308/0	-91.8	-91.8 0.27 (1)	4.25	M-H	0/80	0.03 (1)
T-B	-1875/0	0.0	0.0 0.19 (1)	6.13	M-I	0/90	0.02 (1)
K-J	-1754/0	0.0	0.0 0.18 (1)	6.29	L-I	-520/0	0.10 (1)
T-S	0/0	-18.5	-18.5 0.07 (4)	10.00	B-S	0/2307	0.52 (1)
S-R	0/2258	-18.5	-18.5 0.42 (1)	10.00	L-J	0/2159	0.49 (1)
R-Q	0/2224	-18.5	-18.5 0.41 (1)	10.00			
Q-P	0/2224	-18.5	-18.5 0.41 (1)	10.00			
P-O	0/2054	-18.5	-18.5 0.52 (1)	10.00			
O-N	0/2154	-18.5	-18.5 0.40 (1)	10.00			
N-M	0/2154	-18.5	-18.5 0.40 (1)	10.00			
M-L	0/2080	-18.5	-18.5 0.39 (1)	10.00			
L-K	0/0	-18.5	-18.5 0.08 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.08")
CALCULATED VERT. DEFL.(LL) = L/999 (0.16")
ALLOWABLE DEFL.(TL) = L/360 (1.08")
CALCULATED VERT. DEFL.(TL) = L/999 (0.28")

CSI: TC=0.59/1.00 (D-E:1), BC=0.82/1.00 (O-P:1),
WB=0.52/1.00 (B-S: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)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

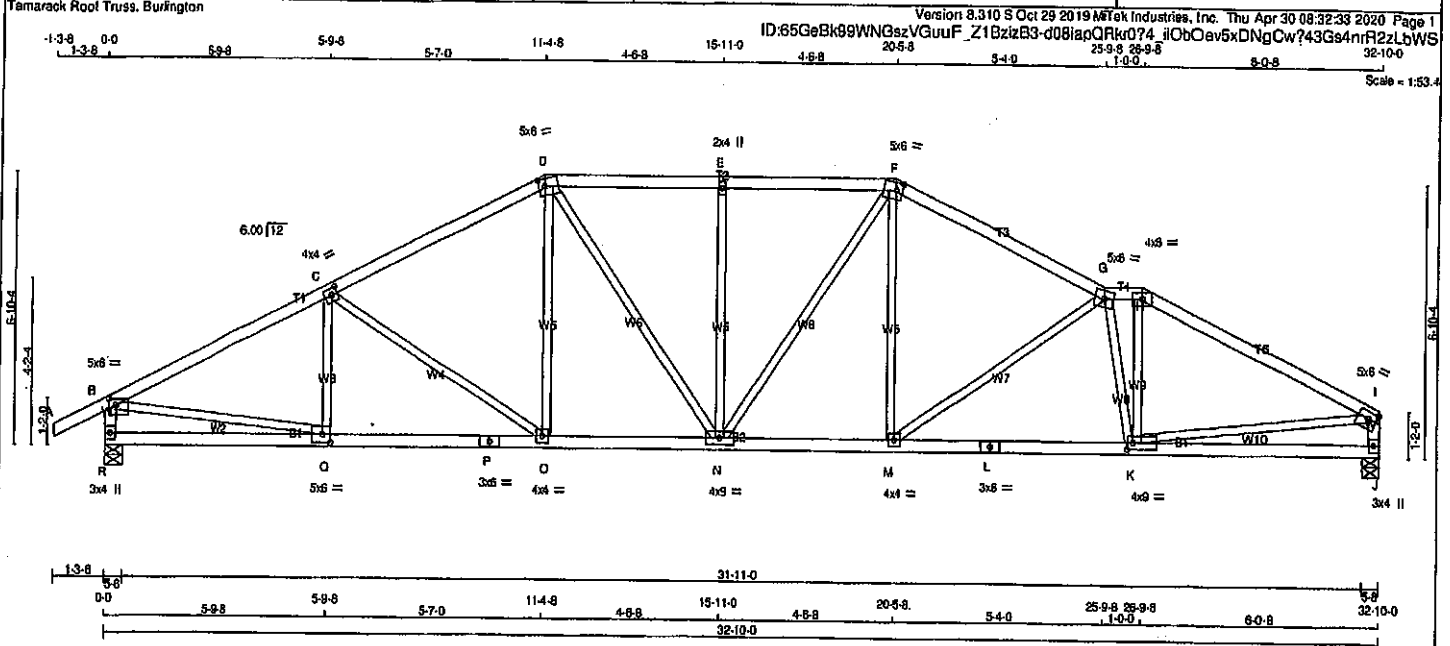
PLATE ROTATION TOL. = 5.0 Deg.

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



Structural component only
DWG# T-2007967

JOB NAME 408314	TRUSS NAME T72	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.310 8 Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 08:32:33 2020 Page 1 ID:65GeBk99WNGszVGuuF_Z1BzizB3-d08IapQRk074_jObOev5xDNgCw?43Gs4nrR2zLbLWS			



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

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

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORIZ
R	1934	0	1934	0
J	1810	0	1810	0

UNFACTORED REACTIONS

	1ST CASE	MAX. MIN.	COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM. LIVE
R	1366	909 / 0	0 / 0	0 / 0
J	1280	840 / 0	0 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.74 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD
	FORCE (LBS)	FORCE (LBS)	LC1 (PLF)		FORCE (LBS)	FORCE (LBS)	LC1 (PLF)
FR-TO				FR-TO			
A-B	0 / 28	-91.8	-91.8 0.12 (1)	Q-C	-244 / 13	0.06 (1)	
B-C	-2859 / 0	-91.8	-91.8 0.51 (1)	C-D	-416 / 0	0.36 (1)	
C-D	-2327 / 0	-91.8	-91.8 0.46 (1)	D-E	0 / 329	0.07 (1)	
D-E	-2298 / 0	-91.8	-91.8 0.30 (1)	E-F	0 / 417	0.09 (1)	
E-F	-2298 / 0	-91.8	-91.8 0.30 (1)	F-G	-505 / 0	0.40 (1)	
F-G	-2381 / 0	-91.8	-91.8 0.43 (1)	G-H	0 / 282	0.06 (1)	
G-H	-2368 / 0	-91.8	-91.8 0.07 (1)	H-I	0 / 424	0.10 (1)	
H-I	-2598 / 0	-91.8	-91.8 0.57 (1)	I-J	-551 / 0	0.46 (1)	
I-J	-1887 / 0	0.0	0.0 0.19 (1)	J-K	0 / 843	0.18 (1)	
J-K	-1761 / 0	0.0	0.0 0.18 (1)	K-L	0 / 2428	0.55 (1)	
K-L				L-M	0 / 2345	0.53 (1)	
L-M				M-N	-1058 / 0	0.29 (1)	
M-N				N-O			
N-O				O-P			
O-P				P-Q			
P-Q				Q-R			
Q-R				R-S			
R-S				S-T			
S-T				T-U			
T-U				U-V			
U-V				V-W			
V-W				W-X			
W-X				X-Y			
X-Y				Y-Z			
Y-Z				Z-A			

TOTAL WEIGHT = 138 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. O/C

LOADING IN ALL FLAT SECTIONS 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, NBC 2012, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (1.00")
CALCULATED VERT. DEFL. (LL) = L/999 (0.13")
ALLOWABLE DEFL. (TL) = L/360 (1.00")
CALCULATED VERT. DEFL. (TL) = L/999 (0.25")

CSI: TC=0.57/1.00 (H-I:1), BC=0.49/1.00 (K-M:1),
WB=0.55/1.00 (B-C:1), SSI=0.23/1.00 (B-C: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 1567 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

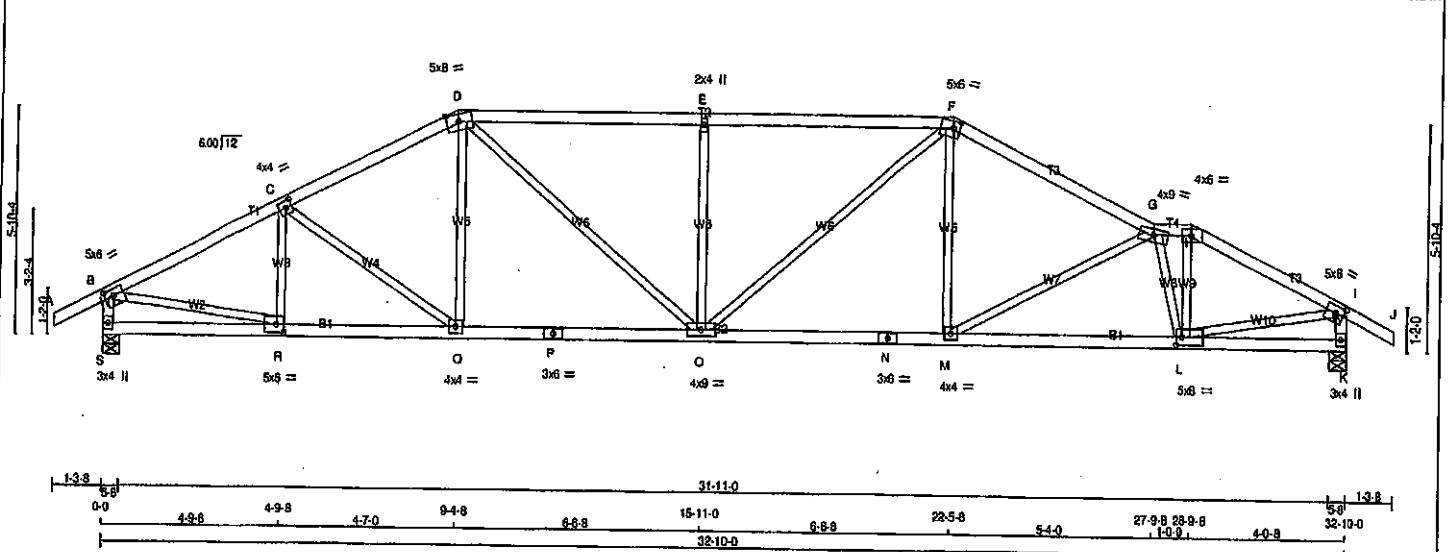
JSI GRIP= 0.80 (Q) (INPUT = 0.90)
JSI METAL= 0.83 (L) (INPUT = 1.00)



Structural component only
DWG# T-2007968

JOB NAME 408314	TRUSS NAME T73	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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ID:65GeBk99WNGszVGUuF_Z1BzizB3-5D14n9R3V88si8HuyJwSIUMx3XikXTP4KWO_U2LbWVR
1-3.8 0-0 1-3.8 4-9.8 4-9.8 4-7.0 9-4.8 6-6.8 15-11.0 6-6.8 5-4.0 27-9.8 28-9.8 4-0.8 32-10.0 24-1.8 1-3.8
Scale = 1:54.7



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
G - H	2x4	DRY No.2	SPF
H - J	2x4	DRY No.2	SPF
S - B	2x4	DRY No.2	SPF
K - I	2x4	DRY No.2	SPF
S - P	2x4	DRY No.2	SPF
P - N	2x4	DRY No.2	SPF
N - K	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	X
B	TMVW-1	MT20	5.0	6.0	2.00 2.75
C	TMVW-1	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 2.00
G	TTWW-m	MT20	4.0	9.0	
H	TTW-I	MT20	4.0	6.0	
I	TMVW-1	MT20	5.0	8.0	2.25 2.75
K	BMV1-p	MT20	3.0	4.0	
L	BMVWW-1	MT20	5.0	8.0	2.50 2.00
M	BMVWW-1	MT20	4.0	4.0	
N	BS-1	MT20	3.0	6.0	
O	BMVWW-1	MT20	4.0	9.0	
P	BS-1	MT20	3.0	6.0	
Q	BMVWW-1	MT20	4.0	4.0	
R	BMVWW-1	MT20	5.0	6.0	2.50 2.25
S	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
	VERT	HORZ	BRG
JT	1934	0	1934
S	1934	0	1934
K	1934	0	1934

UNFACTORED REACTIONS			
	1ST CASE	MAX/MIN. COMPONENT REACTIONS	
	JT	COMBINED SNOW	LIVE
S	1366	909/0	0/0
K	1366	909/0	0/0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.51 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)
FR-TO			
A-B	0/28	-91.8	-91.8 0.12 (1)
B-C	-2604/0	-91.8	-91.8 0.34 (1)
C-D	-2472/0	-91.8	-91.8 0.32 (1)
D-E	-2762/0	-91.8	-91.8 0.85 (1)
E-F	-2762/0	-91.8	-91.8 0.65 (1)
F-G	-2594/0	-91.8	-91.8 0.45 (1)
G-H	-2324/0	-91.8	-91.8 0.07 (1)
H-I	-2627/0	-91.8	-91.8 0.27 (1)
I-J	0/28	-91.8	-91.8 0.12 (1)
S-B	-1892/0	0.0	0.0 0.19 (1)
K-I	-1699/0	0.0	0.0 0.19 (1)
S-R	0/0	-18.5	-18.5 0.09 (4)
R-Q	0/2348	-18.5	-18.5 0.45 (1)
Q-P	0/2194	-18.5	-18.5 0.43 (1)
P-O	0/2194	-18.5	-18.5 0.43 (1)
O-N	0/2326	-18.5	-18.5 0.46 (1)
N-M	0/2326	-18.5	-18.5 0.46 (1)
M-L	0/2670	-18.5	-18.5 0.52 (1)
L-K	0/0	-18.5	-18.5 0.10 (4)

TOTAL WEIGHT = 132 lb (M/P)

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 ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2010, NBC 2015, OBC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.09")
CALCULATED VERT. DEFL.(LL) = L/899 (0.15")
ALLOWABLE DEFL.(TL) = L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L/899 (0.28")

CSI: TC=0.65/1.00 (D-E:1), BC=0.52/1.00 (L-M:1), WB=0.54/1.00 (B-R:1), SI=0.29/1.00 (D-E: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 (PSI)	SECTION (PLI)	
MAX MIN	MAX MIN	MAX MIN	
MT20	618 354	1667 788	1967 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (L) (INPUT = 0.90)
JSI METAL= 0.72 (P) (INPUT = 1.00)

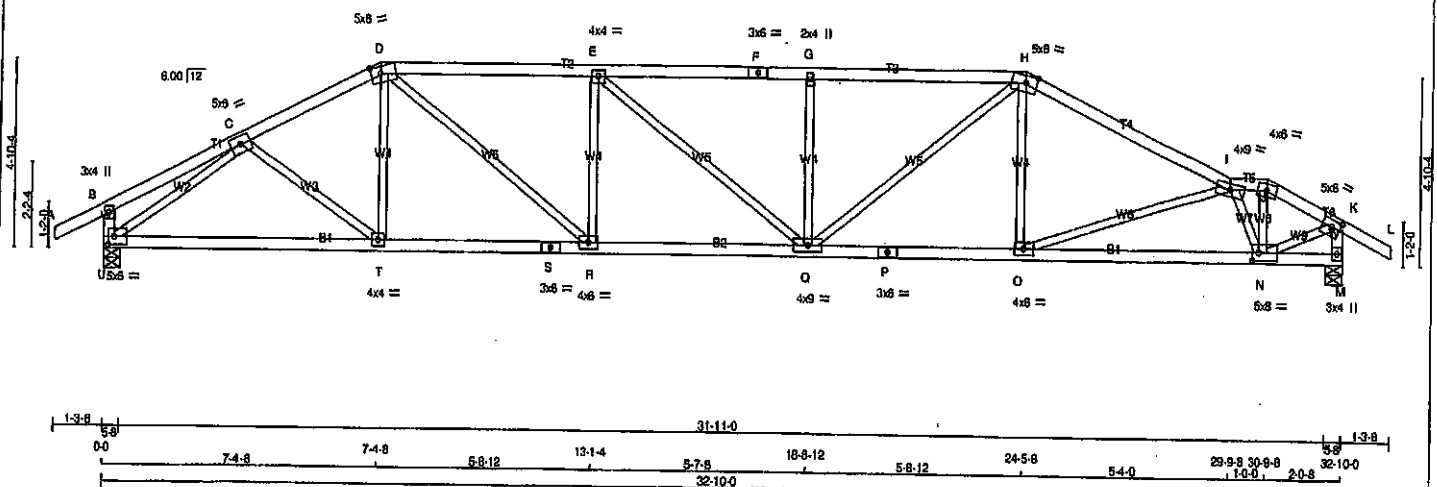


Structural component only
DWG# T-2007969

JOB NAME 408314	TRUSS NAME T74	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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299-8 30-9-8 32-10-0 34-1-8
1-3-8 0-0 3-9-8 3-9-8 3-7-0 7-4-8 5-8-12 13-1-4 5-7-8 18-8-12 24-5-8 5-8-12 5-4-0 29-9-8 30-9-8 32-10-0 34-1-8
Scale = 1:54.7



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

EXCEPT
DRY: SEASONED LUMBER.

PLATES (table in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMV+p	MT20	3.0	4.0	
C TMWW-t	MT20	5.0	6.0	
D TTWW-m	MT20	5.0	8.0	2.25 3.00
E TMWW-t	MT20	4.0	4.0	
F TS-t	MT20	3.0	6.0	
G TMW-w	MT20	2.0	4.0	
H TTWW-m	MT20	5.0	8.0	2.25 3.50
I TTWW-m	MT20	4.0	9.0	
J TTW-t	MT20	4.0	6.0	
K TMW-t	MT20	5.0	6.0	2.25 2.75
M BMV1-p	MT20	3.0	4.0	
N BMWW-t	MT20	5.0	8.0	2.50 2.00
O BMWW-t	MT20	4.0	6.0	
P BS-t	MT20	3.0	8.0	
Q BMWW-t	MT20	4.0	9.0	
R BMWW-t	MT20	4.0	6.0	
S BS-t	MT20	3.0	8.0	
T BMWW-t	MT20	4.0	4.0	
U BMWW-t	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	REQD
JT	GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
U	1934	0	1934	0	5-8
M	1934	0	1934	0	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
U	1366	809/0	0/0	0/0	0/0	456/0	0/0
M	1366	809/0	0/0	0/0	0/0	456/0	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 = 3.31 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	MEMB.	MAX. FACTORED
FR-TO	FORCE (LBS)	FR-TO	FORCE (LBS)
A-B	0/28	C-T	0/105
B-C	0/14	D-T	0/108
C-D	-2578/0	D-R	0/1147
D-E	-3191/0	E-Q	-821/0
E-F	-3259/0	F-Q	0/99
F-G	-3259/0	G-Q	-584/0
G-H	-3259/0	H-Q	0/978
H-I	-2785/0	I-Q	0/174
I-J	-1928/0	J-Q	0/174
J-K	-2108/0	K-Q	0/180
K-L	0/28	L-Q	-2733/0
L-M	-283/0	M-K	0/2026
M-K	-1918/0	N-K	-1646/0
U-T	0/2206	T-S	0/2293
T-S	0/2293	S-R	0/2293
S-R	0/2293	R-Q	0/3191
R-Q	0/3191	Q-P	0/2495
Q-P	0/2495	P-O	0/2495
P-O	0/2495	O-N	0/2031
O-N	0/2031	N-M	0/0

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 ALL FLAT SECTIONS 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 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 (1.09")
CALCULATED VERT. DEFL.(LL) = L/699 (0.18")
ALLOWABLE DEFL.(TL) = L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L/999 (0.35")

CSI: TC=0.88/1.00 (H:H), BC=0.58/1.00 (Q:R), WB=0.93/1.00 (G-U:1), SG=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.

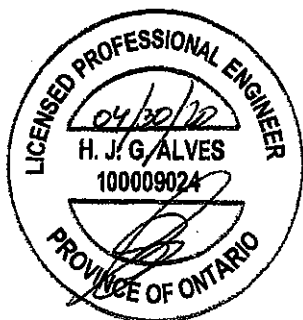
NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 610 354 1687 768 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (U) (INPUT = 0.90)
JSI METAL= 0.80 (I) (INPUT = 1.00)

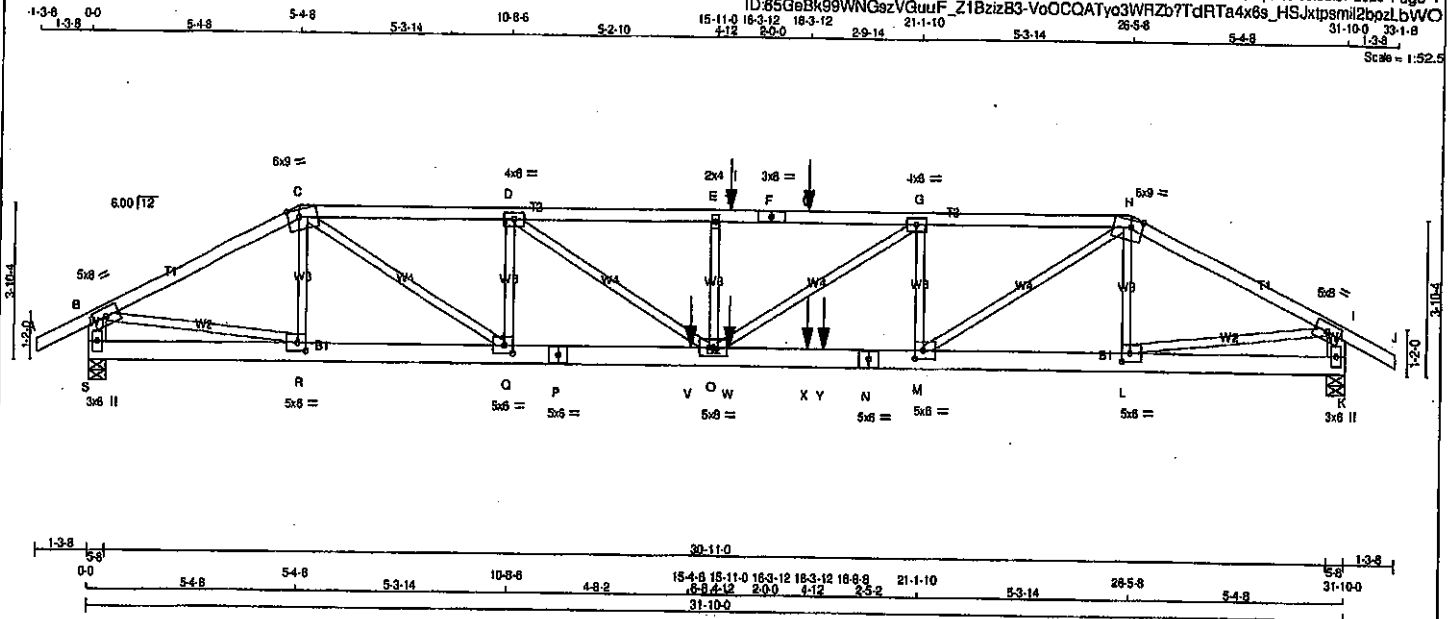


Structural component only
DWG# T-2007970

JOB NAME 408314	TRUSS NAME T75	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

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ID:85G6Bk99WNGszVGuuF_Z1BzizB3-VoCCOATyo3WRZb7TdRTa4x6s_HSJxipsmi2bzLbWO
31-10-0 33-1-8
Scale = 1:52.5



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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122'X3') SPIRAL NAILS		
A-C 1	12	TOP
C-F 1	12	SIDE(0.0)
F-H 1	12	SIDE(0.0)
H-J 1	12	TOP
S-B 2	12	TOP
K-I 2	12	TOP
BOTTOM CHORDS : (0.122'X3') SPIRAL NAILS		
S-P 2	12	TOP
P-N 2	12	SIDE(0.0)
N-K 2	12	TOP
WEBS : (0.122'X3') SPIRAL NAILS		
2x3 1	8	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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	UPLIFT	IN-SX
S	3147	0	3147	0	5-8
K	3325	0	3325	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
S	2223	1471/0	0/0	0/0	0/0	752/0	0/0
K	2348	1558/0	0/0	0/0	0/0	789/0	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 = 2.67 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. UNBRACED LENGTH (FT)	MAX. FACTORED FORCE (LBS)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
MEMB.	FR-TO					MEMB.		
A-B	0/28	-91.8	-91.8	0.07 (1)	10.00	R-C	-490/0	0.08 (1)
B-C	-4742/0	-91.8	-91.8	0.41 (1)	4.07	C-D	0/3948	0.49 (1)
C-D	-7631/0	-91.8	-91.8	0.49 (1)	3.27	D-E	-2037/0	0.24 (1)
D-E	-9793/0	-91.8	-91.8	0.68 (1)	2.72	E-F	0/2718	0.34 (1)
E-F	-9793/0	-91.8	-91.8	0.72 (1)	2.67	F-G	-579/0	0.07 (1)
F-G	-9793/0	-91.8	-91.8	0.72 (1)	2.67	G-H	0/1912	0.24 (1)
G-H	-9793/0	-91.8	-91.8	0.72 (1)	2.67	H-I	-1654/0	0.19 (1)
H-I	-8202/0	-91.8	-91.8	0.58 (1)	3.05	I-J	0/4454	0.55 (1)
I-J	-5024/0	-91.8	-91.8	0.43 (1)	3.98	J-K	-633/0	0.07 (1)
J-K	0/28	-91.8	-91.8	0.07 (1)	10.00	K-L	0/4281	0.53 (1)
K-L	-3097/0	0.0	0.0	0.11 (1)	7.81	L-M	0/4535	0.58 (1)
L-M	-3258/0	0.0	0.0	0.11 (1)	7.68			
S-R	0/0	-18.5	-18.5	0.03 (4)	10.00			
R-Q	0/4224	-18.5	-18.5	0.31 (1)	10.00			
Q-P	0/7531	-18.5	-18.5	0.87 (1)	10.00			
P-V	0/7531	-18.5	-18.5	0.87 (1)	10.00			
V-O	0/7531	-18.5	-18.5	0.87 (1)	10.00			
O-W	0/8202	-18.5	-18.5	0.97 (1)	10.00			
W-X	0/8202	-18.5	-18.5	0.97 (1)	10.00			
X-Y	0/8202	-18.5	-18.5	0.97 (1)	10.00			
Y-N	0/8202	-18.5	-18.5	0.97 (1)	10.00			
N-M	0/8202	-18.5	-18.5	0.97 (1)	10.00			
M-L	0/4471	-18.5	-18.5	0.41 (1)	10.00			
L-K	0/0	-18.5	-18.5	0.04 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
T	16-3-12	-93	-93	---	BACK	VERT	TOTAL	C1
U	16-3-12	-93	-93	---	BACK	VERT	TOTAL	C1
V	15-4-8	-1324	-1324	---	BACK	VERT	TOTAL	C1
W	16-3-12	-23	-23	---	BACK	VERT	TOTAL	C1
X	16-3-12	-23	-23	---	BACK	VERT	TOTAL	C1
Y	16-6-8	-1157	-1157	---	BACK	VERT	TOTAL	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 141 = 281 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. 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 NBCC 2010, NBC 2012, ABC 2010
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = L/998 (0.28")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/746 (0.51")

CSI: TC=0.72/1.00 (E-G:1), BC=0.97/1.00 (M-O:1),
WB=0.58/1.00 (I-L:1), SS=0.44/1.00 (O-Q:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1698

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (Q) (INPUT = 0.90)
JSI METAL = 0.92 (N) (INPUT = 1.00)



Structural component only
DWG# T-2007971 1/2

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408314	T75	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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ID:65G6Rk99WNGszVGuuF Z1BzizB3-VoCCOATvo3WRZb?TdRTa4x6s HS.xt0smil2b0zLbWVO

PLATES (table is in inches)

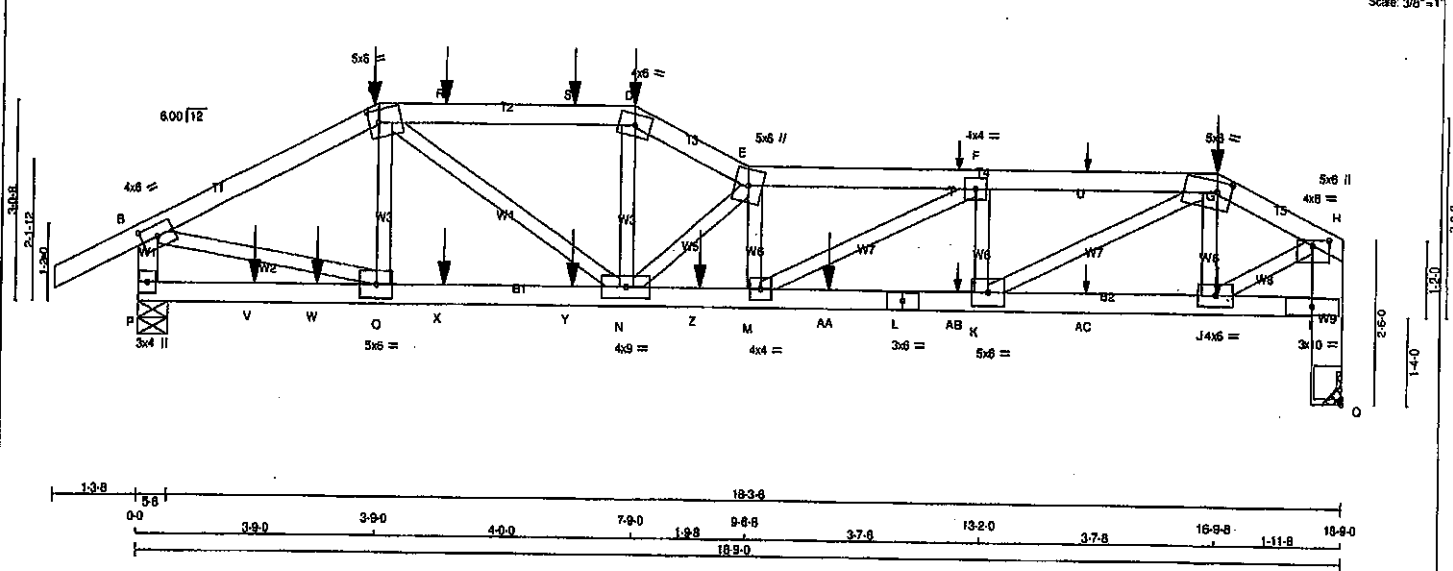
JT	TYPE	PLATES	W	LEN	Y	X
B	TMWW-t	MT20	5.0	8.0		
C	TTWW-m	MT20	6.0	9.0	2.25	3.50
D	TMWW-t	MT20	4.0	6.0		
E	TMWW-w	MT20	2.0	4.0		
F	TS-t	MT20	3.0	8.0		
G	TMWW-t	MT20	4.0	6.0		
H	TTWW-m	MT20	6.0	9.0	2.25	3.50
I	TMWW-t	MT20	5.0	8.0		
K	BMV1-p	MT20	3.0	6.0		
L, M, Q, R						
L	BMWW-t	MT20	8.0	6.0	2.50	2.50
N	BS-t	MT20	5.0	6.0		
O	BMWW-t	MT20	5.0	8.0		
P	BS-t	MT20	5.0	6.0		
S	BMV1-p	MT20	3.0	6.0		



Structural component only
DWG# T-2007971 *me*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408314	T76	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

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ID:65G6Bk99WNGszVGuuF_Z1BzizB3-z_ybdWUaZNI8lafB9_pc8f60hggNr??MUC7FzLbWN
12-9-12 13-2-0 14-9-12 1-11-12 16-9-8 18-9-0
Scale: 3/8"=1'



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
G - H	2x4	DRY	No.2
P - B	2x4	DRY	No.2
C - H	2x6	DRY	No.2
P - L	2x4	DRY	No.2
L - I	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMWV-1	MT20	4.0	6.0	2.00 3.00
C	TTWW-m	MT20	5.0	6.0	2.25 1.75
D	TTW-m	MT20	4.0	6.0	
E	TTWW-m	MT20	5.0	6.0	
F	TMWV-1	MT20	4.0	4.0	
G	TTWW-m	MT20	5.0	6.0	2.00 2.50
H	TMWV-p	MT20	4.0	6.0	1.00 3.00
I	BVM	MT20	3.0	10.0	
J	BMWV-1	MT20	4.0	6.0	
K	BMWV-1	MT20	5.0	6.0	
L	BS-1	MT20	3.0	6.0	
M	BMWV-1	MT20	4.0	4.0	
N	BMWV-1	MT20	4.0	9.0	
O	BMWV-1	MT20	5.0	6.0	
P	BMV1-p	MT20	3.0	4.0	
Q	EBSP-1	MT20	5.0	6.0	1.00

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	HORZ	UPLIFT	IN-SX	IN-SX
P	1328	0	1328	0	0	5-8	5-8
Q	1139	0	1139	0	0	MECHANICAL	

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

UNFACTORED REACTIONS							
1ST LCASE	MAX/MIN	COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
P	935	636 / 0	0 / 0	0 / 0	0 / 0	299 / 0	0 / 0
Q	805	533 / 0	0 / 0	0 / 0	0 / 0	272 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.74 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING							
TOTAL LOAD CASES: (4)							
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		UNBRACED LENGTH	FR-TO		
A-B	0 / 28	-91.8	-91.8 0.13 (1)	10.00	O-G	-219 / 0	0.04 (1)
B-C	-1542 / 0	-91.8	-91.8 0.29 (1)	4.94	C-N	0 / 775	0.19 (1)
C-R	-2004 / 0	-91.8	-91.8 0.38 (1)	4.31	N-D	0 / 613	0.15 (1)
R-S	-2004 / 0	-91.8	-91.8 0.38 (1)	4.31	N-E	-1415 / 0	0.27 (1)
S-D	-2004 / 0	-91.8	-91.8 0.38 (1)	4.31	M-E	-229 / 0	0.04 (1)
D-E	-2214 / 0	-91.8	-91.8 0.12 (1)	4.46	M-F	0 / 584	0.14 (1)
E-T	-2981 / 0	-91.8	-91.8 0.30 (1)	3.74	K-F	-639 / 0	0.10 (1)
T-F	-2981 / 0	-91.8	-91.8 0.30 (1)	3.74	K-G	0 / 1550	0.38 (1)
F-U	-2491 / 0	-91.8	-91.8 0.26 (1)	4.09	J-G	-400 / 0	0.07 (1)
U-G	-2491 / 0	-91.8	-91.8 0.26 (1)	4.08	B-O	0 / 1412	0.35 (1)
G-H	-1288 / 0	-91.8	-91.8 0.09 (1)	5.61	J-H	0 / 1226	0.30 (1)
P-B	-1296 / 0	0.0	0.0 0.14 (1)	7.06			
Q-I	-1139 / 0	0.0	0.0 0.09 (1)	7.81			
I-H	-1132 / 0	0.0	0.0 0.08 (1)	7.81			

P-V	0 / 0	-18.5	-18.5 0.08 (4)	10.00
V-W	0 / 0	-18.5	-18.5 0.08 (4)	10.00
W-O	0 / 0	-18.5	-18.5 0.08 (4)	10.00
O-X	0 / 1370	-18.5	-18.5 0.28 (1)	10.00
X-Y	0 / 1370	-18.5	-18.5 0.28 (1)	10.00
Y-N	0 / 1370	-18.5	-18.5 0.28 (1)	10.00
N-Z	0 / 2994	-18.5	-18.5 0.58 (1)	10.00
Z-M	0 / 2994	-18.5	-18.5 0.58 (1)	10.00
M-AA	0 / 2491	-18.5	-18.5 0.52 (1)	10.00
AA-L	0 / 2491	-18.5	-18.5 0.52 (1)	10.00
L-AB	0 / 2491	-18.5	-18.5 0.52 (1)	10.00
AB-K	0 / 2491	-18.5	-18.5 0.52 (1)	10.00
K-AC	0 / 1109	-18.5	-18.5 0.23 (1)	10.00
AC-J	0 / 1109	-18.5	-18.5 0.23 (1)	10.00
J-I	0 / 0	-18.5	-18.5 0.04 (4)	10.00

FACTORED CONCENTRATED LOADS (LBS)							
JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE
C	3-9-0	-15	-17		FRONT	VERT	DEAD
C	3-9-0	-74	-74		FRONT	VERT	SNOW
D	7-9-0	-15	-17		FRONT	VERT	DEAD
D	7-9-0	-74	-74		FRONT	VERT	SNOW
G	16-9-8	-6	-7		FRONT	VERT	DEAD
G	16-9-8	-3	-3		BACK	VERT	TOTAL

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

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
DL = 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 ALL FLAT SECTIONS 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 CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.63")
CALCULATED VERT. DEFL.(LL) = U/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (0.63")
CALCULATED VERT. DEFL.(TL) = U/999 (0.20")

CSI: TC=0.38/1.00 (C-D-1), BC=0.58/1.00 (M-N-1),
WB=0.38/1.00 (G-K-1), SS=0.18/1.00 (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 LEFT HEEL ONLY

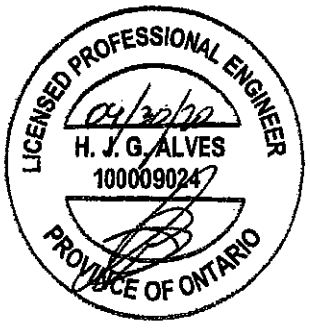
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(P.S.I) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1887 788 1987 1886

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.85 (E) (INPUT = 0.90)
JSI METAL = 0.81 (L) (INPUT = 1.00)



Structural component only
DWG# T-2007972 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408314	T76	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

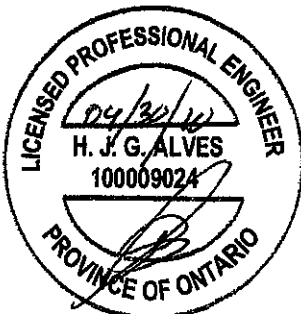
Version 8.310 S Oct 29 2019 Mtek Industries, Inc. Thu Apr 30 08:32:38 2020 Page 2
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FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	16-9-8	-26	-26	---	FRONT	VERT	SNOW	---	C1
J	16-9-12	1	1	---	BACK	VERT	TOTAL	---	C1
R	4-9-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
S	6-9-12	-24	-24	---	BACK	VERT	TOTAL	---	C1
T	12-9-12	1	1	---	BACK	VERT	TOTAL	---	C1
U	14-9-12	1	1	---	BACK	VERT	TOTAL	---	C1
V	1-9-12	-3	-3	---	BACK	VERT	TOTAL	---	C1
W	2-9-12	-3	-3	---	BACK	VERT	TOTAL	---	C1
X	4-9-12	-3	-3	---	BACK	VERT	TOTAL	---	C1
Y	6-9-12	-3	-3	---	BACK	VERT	TOTAL	---	C1
Z	8-9-12	-3	-3	---	BACK	VERT	TOTAL	---	C1
AA	10-9-12	-3	-3	---	BACK	VERT	TOTAL	---	C1
AB	12-9-12	1	1	---	BACK	VERT	TOTAL	---	C1
AC	14-9-12	1	1	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

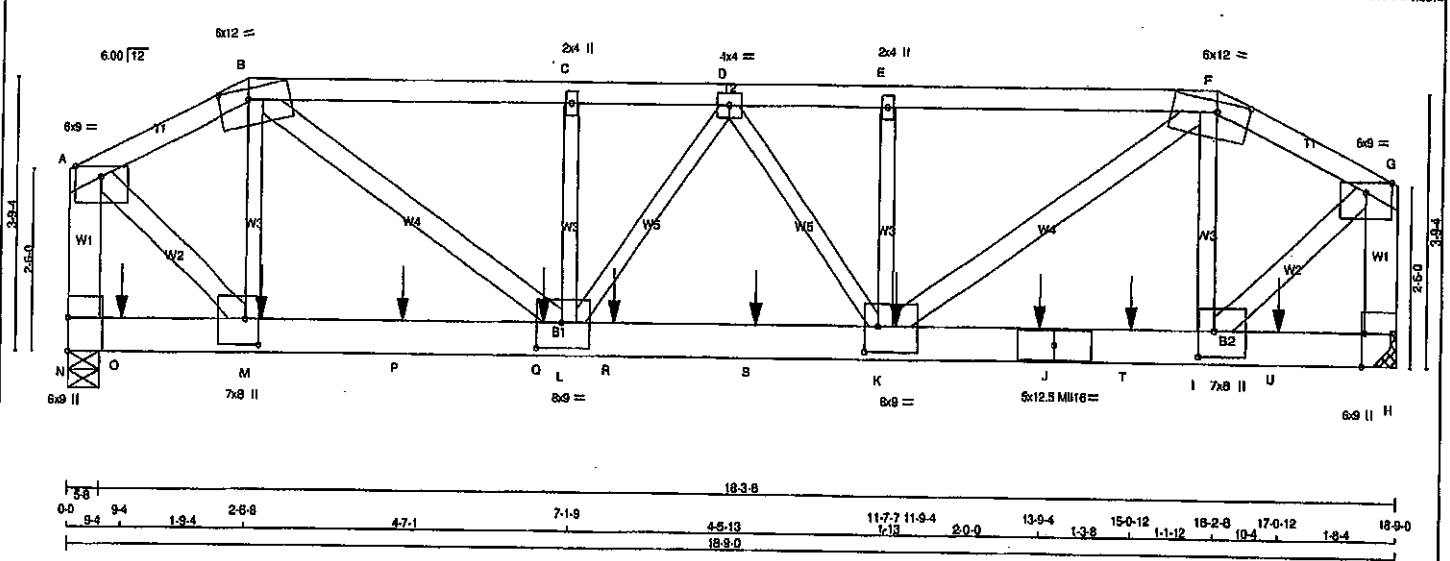
- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2007972 7/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408314	T77	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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11-7-7 18-9-0
Scale = 1:20.3



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. TOTAL WEIGHT = 2 X 97 = 195 lb

CHORDS	SIZE	LUMBER	DESCR.
A - B	2x4	DRY	No.2 SPF
B - F	2x4	DRY	No.2 SPF
F - G	2x4	DRY	No.2 SPF
N - A	2x6	DRY	No.2 SPF
H - G	2x6	DRY	No.2 SPF
N - J	2x6	DRY	2100F 1.8E SPF
J - H	2x6	DRY	2100F 1.8E SPF
ALL WEBS EXCEPT	2x3	DRY	No.2 SPF
B - L	2x4	DRY	No.2 SPF
K - F	2x4	DRY	No.2 SPF
A - M	2x4	DRY	No.2 SPF
I - G	2x4	DRY	No.2 SPF

DRY: SEASONED LUMBER.

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

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

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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.

BEARINGS FACTORED MAXIMUM FACTORED INPUT REQD
GROSS REACTION GROSS REACTION BRG BRG
JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX
N 10223 0 10223 0 0 5-8 5-8
H 8555 0 8555 0 0 MECHANICAL

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

UNFACTORED REACTIONS 1ST LOASE MAX/MIN COMPONENT REACTIONS
JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL
N 7221 4788 / 0 0 / 0 0 / 0 2433 / 0 0 / 0
H 6749 4476 / 0 0 / 0 0 / 0 2273 / 0 0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) N
BEARING SIZE FACTOR = 1.15 AT JOINT(S) N (BASED ON SUPPORT DEPTH = 1-8)

BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 1.78 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	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 MAX (PLF)	MEMB.	FORCE (LBS)
FR-TO			FR-TO	
A-B	-7921 / 0	-91.8 -91.8 0.28 (1)	M-B	-1854 / 0
B-C	-13888 / 0	-91.8 -91.8 0.97 (1)	B-L	0 / 6537
C-D	-13888 / 0	-91.8 -91.8 0.63 (1)	L-C	-311 / 0
D-E	-13674 / 0	-91.8 -91.8 0.62 (1)	X-E	-317 / 0
E-F	-13674 / 0	-91.8 -91.8 0.95 (1)	K-F	0 / 8063
F-G	-8096 / 0	-91.8 -91.8 0.27 (1)	F-F	-1491 / 0
N-A	-9315 / 0	0.0 0.0 0.41 (1)	A-M	0 / 9048
H-G	-9518 / 0	0.0 0.0 0.41 (1)	I-G	0 / 8246
			L-D	0 / 82
			D-K	-298 / 0

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 MAX (PLF)	MEMB.	FORCE (LBS)
FR-TO			FR-TO	
A-B	-7921 / 0	-91.8 -91.8 0.28 (1)	M-B	-1854 / 0
B-C	-13888 / 0	-91.8 -91.8 0.97 (1)	B-L	0 / 6537
C-D	-13888 / 0	-91.8 -91.8 0.63 (1)	L-C	-311 / 0
D-E	-13674 / 0	-91.8 -91.8 0.62 (1)	X-E	-317 / 0
E-F	-13674 / 0	-91.8 -91.8 0.95 (1)	K-F	0 / 8063
F-G	-8096 / 0	-91.8 -91.8 0.27 (1)	F-F	-1491 / 0
N-A	-9315 / 0	0.0 0.0 0.41 (1)	A-M	0 / 9048
H-G	-9518 / 0	0.0 0.0 0.41 (1)	I-G	0 / 8246
			L-D	0 / 82
			D-K	-298 / 0

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 MAX (PLF)	MEMB.	FORCE (LBS)
FR-TO			FR-TO	
A-B	-7921 / 0	-91.8 -91.8 0.28 (1)	M-B	-1854 / 0
B-C	-13888 / 0	-91.8 -91.8 0.97 (1)	B-L	0 / 6537
C-D	-13888 / 0	-91.8 -91.8 0.63 (1)	L-C	-311 / 0
D-E	-13674 / 0	-91.8 -91.8 0.62 (1)	X-E	-317 / 0
E-F	-13674 / 0	-91.8 -91.8 0.95 (1)	K-F	0 / 8063
F-G	-8096 / 0	-91.8 -91.8 0.27 (1)	F-F	-1491 / 0
N-A	-9315 / 0	0.0 0.0 0.41 (1)	A-M	0 / 9048
H-G	-9518 / 0	0.0 0.0 0.41 (1)	I-G	0 / 8246
			L-D	0 / 82
			D-K	-298 / 0

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 MAX (PLF)	MEMB.	FORCE (LBS)
FR-TO			FR-TO	
A-B	-7921 / 0	-91.8 -91.8 0.28 (1)	M-B	-1854 / 0
B-C	-13888 / 0	-91.8 -91.8 0.97 (1)	B-L	0 / 6537
C-D	-13888 / 0	-91.8 -91.8 0.63 (1)	L-C	-311 / 0
D-E	-13674 / 0	-91.8 -91.8 0.62 (1)	X-E	-317 / 0
E-F	-13674 / 0	-91.8 -91.8 0.95 (1)	K-F	0 / 8063
F-G	-8096 / 0	-91.8 -91.8 0.27 (1)	F-F	-1491 / 0
N-A	-9315 / 0	0.0 0.0 0.41 (1)	A-M	0 / 9048
H-G	-9518 / 0	0.0 0.0 0.41 (1)	I-G	0 / 8246
			L-D	0 / 82
			D-K	-298 / 0

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 MAX (PLF)	MEMB.	FORCE (LBS)
FR-TO			FR-TO	
A-B	-7921 / 0	-91.8 -91.8 0.28 (1)	M-B	-1854 / 0
B-C	-13888 / 0	-91.8 -91.8 0.97 (1)	B-L	0 / 6537
C-D	-13888 / 0	-91.8 -91.8 0.63 (1)	L-C	-311 / 0
D-E	-13674 / 0	-91.8 -91.8 0.62 (1)	X-E	-317 / 0
E-F	-13674 / 0	-91.8 -91.8 0.95 (1)	K-F	0 / 8063
F-G	-8096 / 0	-91.8 -91.8 0.27 (1)	F-F	-1491 / 0
N-A	-9315 / 0	0.0 0.0 0.41 (1)	A-M	0 / 9048
H-G	-9518 / 0	0.0 0.0 0.41 (1)	I-G	0 / 8246
			L-D	0 / 82
			D-K	-298 / 0



Structural component only
DWG# T-2007973/12

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 = 36.0 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, 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

(65% OF 31.3 P.S.F. G.S.L. PLUS 0.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.62")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.17")
ALLOWABLE DEFL.(TL) = L/360 (0.62")
CALCULATED VERT. DEFL.(TL) = 1/704 (0.32")

CSI: TC=0.97/1.00 (B-C:1), BC=0.65/1.00 (K-L:1), WB=0.82/1.00 (G-I:1), SSI=0.84/1.00 (L-M:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(P.S.I) (P.L.I) (P.L.I)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1686
MI16 438 276 2341 1245 4283 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (B) (INPUT = 0.90)
JSI METAL= 0.93 (M) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408314	T77	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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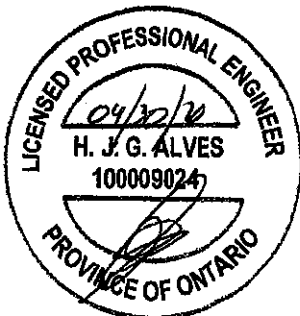
PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-p	MT20	6.0	9.0	Edge	
B	TTWW-m	MT20	6.0	12.0	1.75	5.00
C	TMW-w	MT20	2.0	4.0		
D	TMWW-t	MT20	4.0	4.0		
E	TMW-w	MT20	2.0	4.0		
F	TTWW-m	MT20	6.0	12.0	1.75	5.00
G	TMVW-p	MT20	6.0	9.0	Edge	
H	BMV1-t	MT20	6.0	9.0	Edge	0.50
I	BMWW-t	MT20	7.0	8.0	4.25	2.25
J	BS-t	M116	6.0	12.5		
K	BMWWW-t	MT20	8.0	9.0	4.25	2.25
L	BMWWW-t	MT20	8.0	9.0	4.25	4.25
M	BMWW-t	MT20	7.0	8.0	4.25	2.25
N	BMV1-t	MT20	6.0	9.0	5.50	

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

CONNECTION REQUIREMENTS

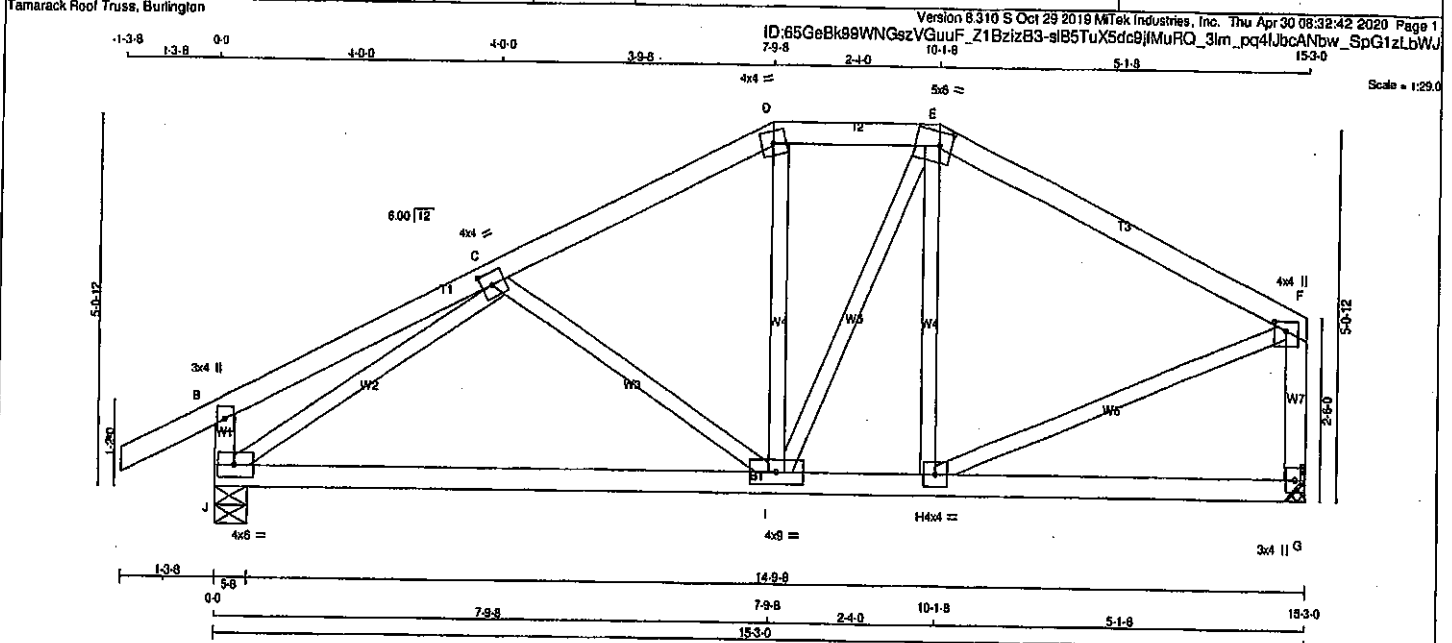
- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2007973 yk

Structural component only
DWG# T-2007974

JOB NAME 408314	TRUSS NAME T79	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 30 08:32:42 2020 Page 1	



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

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMWW-t	MT20	4.0	4.0	2.00	1.75
D	TTW-m	MT20	4.0	4.0		
E	TTWW-m	MT20	5.0	6.0	2.25	2.00
F	TMVV+p	MT20	4.0	4.0	1.50	2.00
G	BMV1+p	MT20	3.0	4.0		
H	BMWW-t	MT20	4.0	4.0		
I	BMWW-t	MT20	4.0	9.0		
J	BMVV1-t	MT20	4.0	6.0		

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

BEARINGS					
JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG	
G	841 0	841 0	0	0	MECHANICAL
J	965 0	965 0	0	0	5-8

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

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED	MAX. MIN. COMPONENT REACTIONS					
G	535	390 / 0	0 / 0	0 / 0	0 / 0	204 / 0	0 / 0
J	660	460 / 0	0 / 0	0 / 0	0 / 0	221 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 MAX. (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-91.8 -91.8	0.12 (1)	10.00	C-I	-248 / 0	0.10 (1)
B-C	0 / 18	-91.8 -91.8	0.22 (1)	10.00	I-D	0 / 101	0.03 (4)
C-D	-788 / 0	-91.8 -91.8	0.17 (1)	6.25	I-E	0 / 189	0.04 (1)
D-E	-691 / 0	-91.8 -91.8	0.07 (1)	6.25	H-E	-216 / 0	0.08 (1)
E-F	-684 / 0	-91.8 -91.8	0.32 (1)	6.25	J-C	-1098 / 0	0.41 (1)
J-B	-264 / 0	0.0 0.0	0.03 (1)	7.81	H-F	0 / 663	0.15 (1)
G-F	-798 / 0	0.0 0.0	0.10 (1)	7.81			
J-I	0 / 891	-18.5 -18.5	0.32 (4)	10.00			
I-H	0 / 607	-18.5 -18.5	0.31 (4)	10.00			
H-G	0 / 0	-18.5 -18.5	0.11 (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 BCBC 2018, OBC 2012, ABC 2010
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (0.51")
CALCULATED VERT. DEFL. (LL) = L/999 (0.02")
ALLOWABLE DEFL. (TL) = L/360 (0.51")
CALCULATED VERT. DEFL. (TL) = L/999 (0.12")

CSI: TC=0.32/1.00 (E-F:1), BC=0.32/1.00 (I-J:4), WB=0.41/1.00 (C-J:1), SI=0.18/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 616 354 1667 788 1987 1656

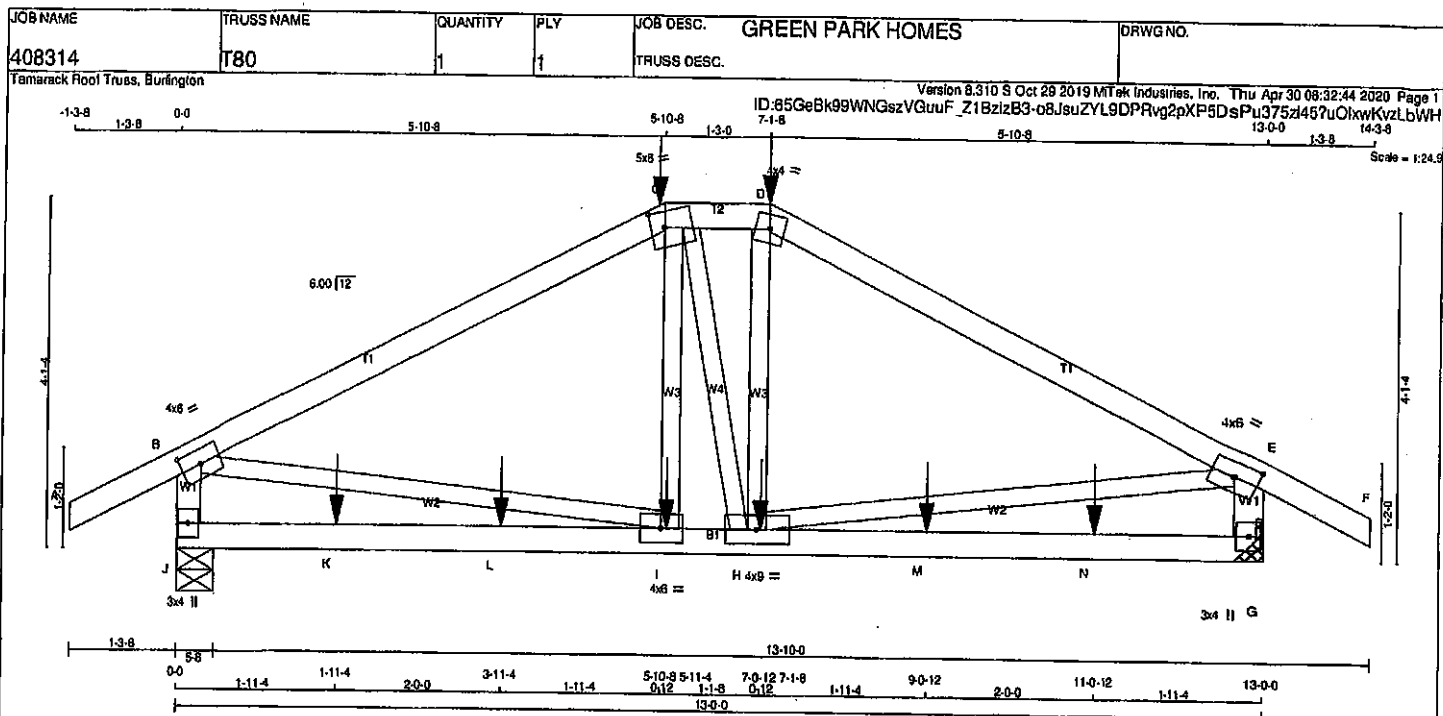
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.77 (C) (INPUT = 0.90)
JSI METAL = 0.36 (C) (INPUT = 1.00)



Structural component only
DWG# T-2007975



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

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	8.0	2.00	3.00
C	TTWW-m	MT20	5.0	8.0	2.25	2.00
D	TTW-m	MT20	4.0	4.0		
E	TMVW-l	MT20	4.0	8.0	2.00	3.00
G	BMV1-p	MT20	3.0	4.0		
H	BMVWW-t	MT20	4.0	9.0		
I	BMVW-l	MT20	4.0	8.0		
J	BMV1-p	MT20	3.0	4.0		

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	IN-SX	IN-SX
J	1338	0	5-8	5-8
G	1338	0	MECHANICAL	

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

UNFACTORED REACTIONS

1ST CASE	MAX/MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
J	945 628 / 0 0 / 0 0 / 0 0 / 0 317 / 0 0 / 0
G	945 628 / 0 0 / 0 0 / 0 0 / 0 317 / 0 0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.26 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)	MEMB.
FR-TO				FR-TO			
A-B	0 / 26	-91.8	0.13 (1)	10.00	I-C	-86 / 78	0.03 (4)
B-C	-1528 / 0	-91.8	0.73 (1)	4.28	C-H	0 / 9	0.00 (4)
C-D	-1381 / 0	-91.8	0.05 (1)	5.51	H-D	-82 / 85	0.03 (4)
D-E	-1528 / 0	-91.8	0.73 (1)	4.28	B-I	0 / 1378	0.34 (1)
E-F	0 / 26	-91.8	0.13 (1)	10.00	H-E	0 / 1378	0.34 (1)
J-B	-1272 / 0	0.0	0.0 0.14 (1)	7.11			
G-E	-1270 / 0	0.0	0.0 0.14 (1)	7.11			
J-K	0 / 0	-18.5	-18.5 0.27 (4)	10.00			
K-L	0 / 0	-18.5	-18.5 0.27 (4)	10.00			
L-I	0 / 0	-18.5	-18.5 0.27 (4)	10.00			
I-H	0 / 1380	-18.5	-18.5 0.41 (4)	10.00			
H-M	0 / 0	-18.5	-18.5 0.28 (4)	10.00			
M-N	0 / 0	-18.5	-18.5 0.28 (4)	10.00			
N-G	0 / 0	-18.5	-18.5 0.28 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LOC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	5-10-8	-419	-419	---	FRONT	VERT	TOTAL	---	C1
D	7-1-8	-419	-419	---	FRONT	VERT	TOTAL	---	C1
H	7-0-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
I	5-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
K	1-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
L	3-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
M	9-0-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
N	11-0-12	-26	-26	---	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 8.00/12

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.43")
CALCULATED VERT. DEFL.(LL) = U/999 (0.03")
ALLOWABLE DEFL.(TL) = L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = U/999 (0.09")

CSI: TC=0.73/1.00 (D-E:1), BC=0.41/1.00 (H-I:4), WB=0.34/1.00 (E-H:1), SSI=0.21/1.00 (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) (PLJ) (PLJ)
MAX MIN MAX MIN MAX MIN
MT20 518 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

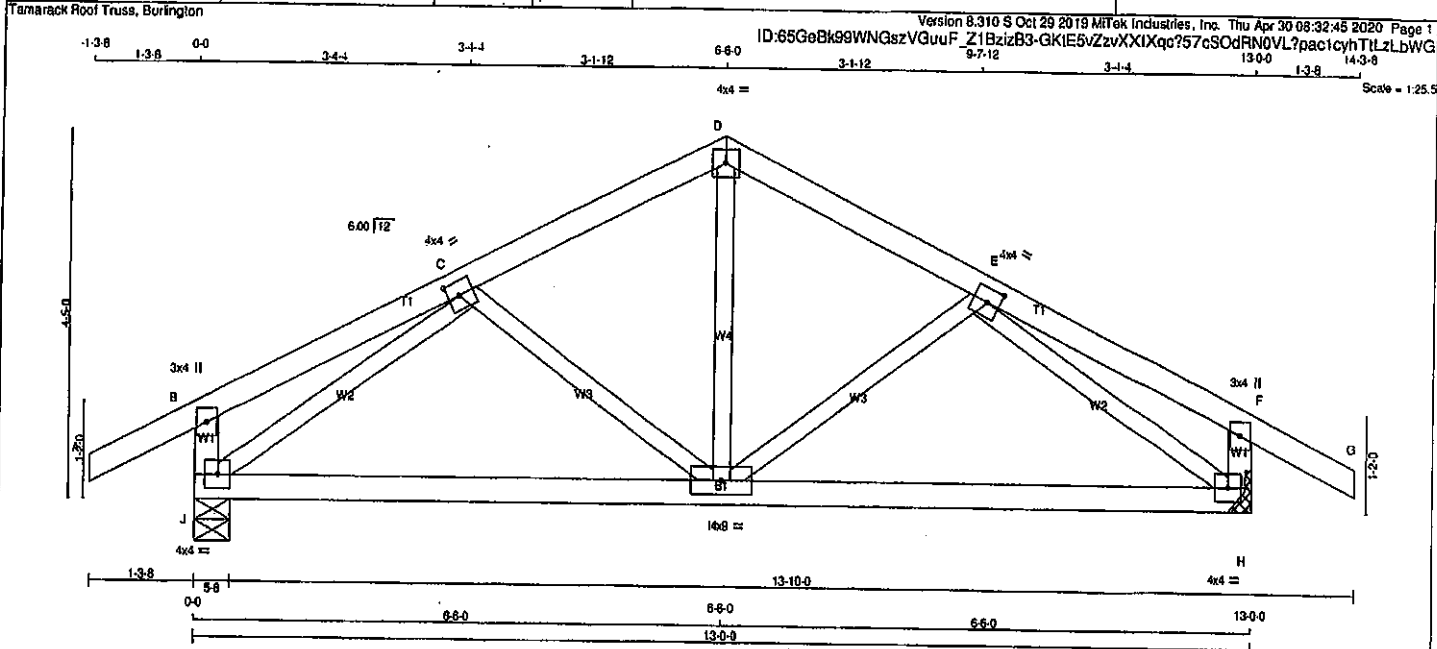
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.84 (I) (INPUT = 0.90)
JSI METAL=0.43 (E) (INPUT = 1.00)



Structural component only
DWG# T-2007976

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408314	T81	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.310 \$ Oct 29 2019 Mitak Industries, Inc. Thu Apr 30 08:32:45 2020 Page 1	



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

DRY: SEASONED LUMBER.

PLATES (table in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMV-p	MT20	3.0	4.0	
C	TMWW-1	MT20	4.0	4.0	2.00 1.75
D	TTW-p	MT20	4.0	4.0	
E	TMWW-1	MT20	4.0	4.0	2.00 1.75
F	TMV-p	MT20	3.0	4.0	
H	BMVW1-1	MT20	4.0	4.0	
I	BMWW1-1	MT20	4.0	9.0	
J	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	REQD
JT	GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
JT	VERT	HORZ	HORZ	UPLIFT	IN-SX
J	841	0	841	0	5-8
H	841	0	841	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	593	402 / 0	0 / 0	0 / 0	0 / 0	190 / 0	0 / 0
H	593	402 / 0	0 / 0	0 / 0	0 / 0	190 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED	FACTORED	MAX	MEMB.	MAX. FACTORED	FACTORED	MAX
	FORCE (LBS)	VERT. LOAD LC1 (PLF)	CSI (LC)		FORCE (LBS)	VERT. LOAD LC1 (PLF)	CSI (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	I-D	0 / 355	0.08 (1)
B-C	0 / 14	-91.8	-91.8 0.14 (1)	10.00	E-E	-171 / 0	0.05 (1)
C-D	-672 / 0	-91.8	-91.8 0.11 (1)	8.25	C-I	-171 / 0	0.05 (1)
D-E	-672 / 0	-91.8	-91.8 0.11 (1)	6.25	J-C	-910 / 0	0.25 (1)
E-F	0 / 14	-91.8	-91.8 0.14 (1)	10.00	E-H	-910 / 0	0.25 (1)
F-G	0 / 28	-91.8	-91.8 0.12 (1)	10.00			
J-B	-242 / 0	0.0	0.0 0.02 (1)	7.81			
H-F	-242 / 0	0.0	0.0 0.02 (1)	7.81			
J-I	0 / 724	-18.5	-18.5 0.28 (4)	10.00			
I-H	0 / 724	-18.5	-18.5 0.28 (4)	10.00			

TOTAL WEIGHT = 52 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. 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 NBCC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 088-14
- TPIG 2011, TPIG 2014

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

ALLOWABLE DEFL. (LL) = L/360 (0.43")
CALCULATED VERT. DEFL. (LL) = L/999 (0.02")
ALLOWABLE DEFL. (TL) = L/360 (0.43")
CALCULATED VERT. DEFL. (TL) = L/999 (0.05")

CSI: TC=0.14/1.00 (E-F:1), BC=0.28/1.00 (H:4:4), WB=0.25/1.00 (E-H:1), SS=0.13/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

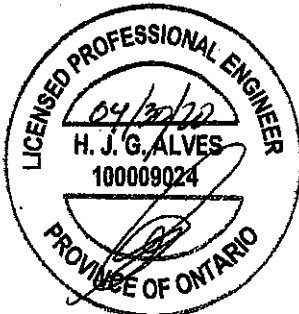
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 768 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.81 (H) (INPUT = 0.90)
JSI METAL= 0.31 (C) (INPUT = 1.00)

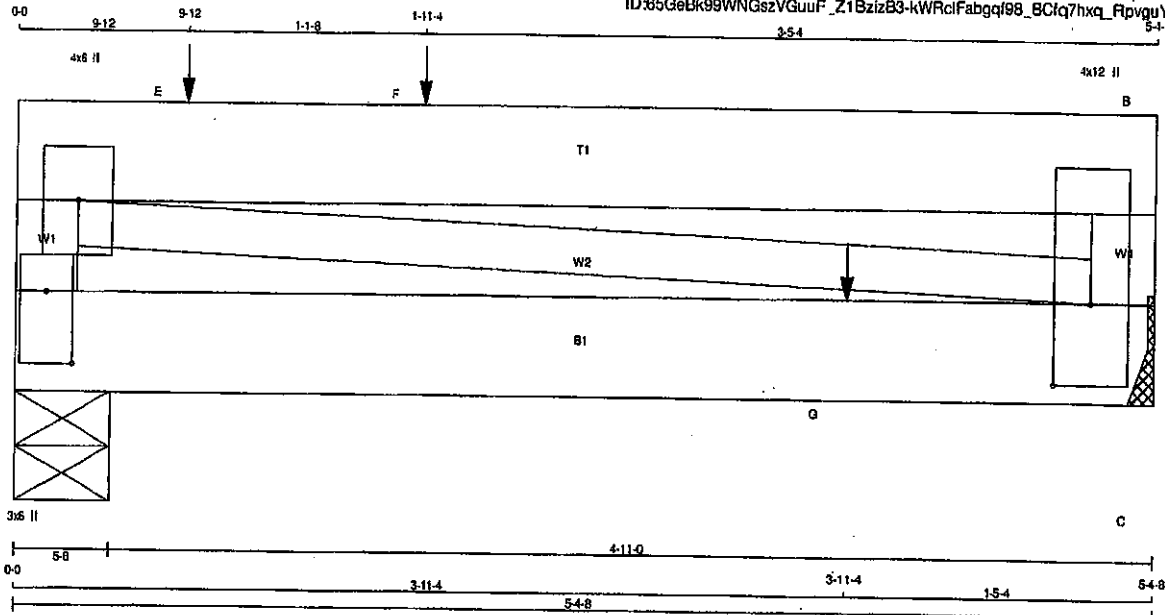


Structural component only
DWG# T-2007977

JOB NAME 408314	TRUSS NAME T82	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID:65GeBk99WNGszVGuuF_Z1BzizB3-kWRclFabgqf98_BClq7hnxq_RpvguY4pBrcQ1PozLbWf
5-4-8



Scale = 1/8"

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

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS: (0.122"x3") SPIRAL NAILS		
D-A 1 12	TOP	
B-C 1 12	TOP	
A-B 2 12	SIDE (0.0)	
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS		
D-C 2 12	SIDE (14.0)	
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.

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	6.0		
B						
C	TMBMWV1+mt	MT20	4.0	12.0	4.50	2.00
D	BMV1+p	MT20	3.0	6.0	4.00	1.50

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	UP
D	1353	0	1353	0
C	1342	0	1342	0

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

UNFACTORED REACTIONS

1ST LOASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
D	953	598 / 0	0 / 0	0 / 0	0 / 0	385 / 0	0 / 0
C	955	598 / 0	0 / 0	0 / 0	0 / 0	359 / 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	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRACED LENGTH	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)
FR-TO						FR-TO			
D-A	-1018 / 0	0.0	0.0	0.06 (1)	7.81	A-C	0 / 0	0.00 (1)	
A-E	0 / 0	-91.8	-91.8	0.59 (1)	10.00				
E-F	0 / 0	-91.8	-91.8	0.59 (1)	10.00				
F-B	0 / 0	-91.8	-91.8	0.59 (1)	10.00				
C-B	-823 / 0	0.0	0.0	0.03 (1)	7.81				
D-G	0 / 0	-43.5	-43.5	0.36 (1)	10.00				
G-C	0 / 0	-43.5	-43.5	0.36 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	9-12	-176	-176	---	BACK	VERT	TOTAL	---	C1
F	1-11-4	-970	-970	---	TOP	VERT	TOTAL	---	C1
G	3-11-4	-822	-822	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 24 = 48 lb

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

*** NON STANDARD GIRDER ***

ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

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

ALLOWABLE DEFL. (LL) = L/360 (0.19")

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

ALLOWABLE DEFL. (TL) = L/800 (0.19")

CALCULATED VERT. DEFL. (TL) = L/999 (0.06")

CSI: TO=0.59/1.00 (A-B:1), BC=0.39/1.00 (C-D:1), WB=0.00/1.00 (A-C:1), SS=0.34/1.00 (A-B: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
(PS)	(PL)	(PL)	(PL)
MAX	MIN	MAX	MIN
MT20	818	354	1687
			1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.14 (A) (INPUT = 0.90)
JSI METAL = 0.07 (D) (INPUT = 1.00)

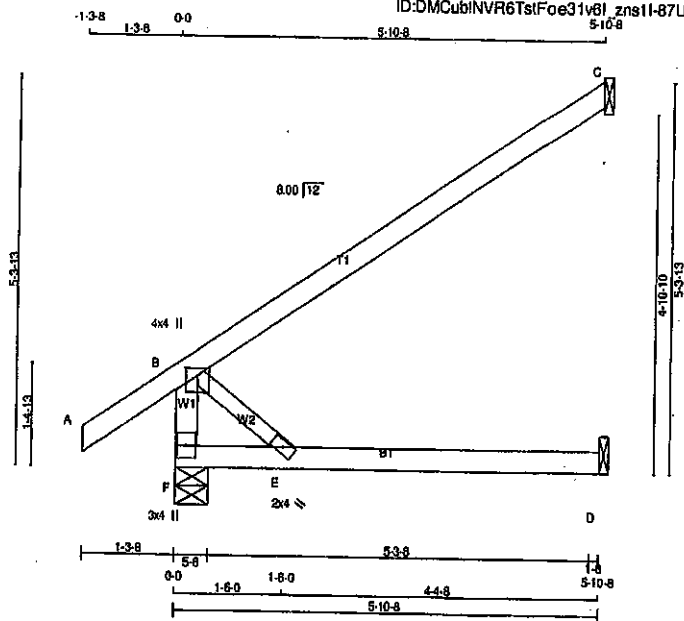


Structural component only
DWG# T-2007978

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408312	J1	25	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TstFoe31v8I_zns11-87Uy6_6TAUWX8imwbXT3_YYeGKMxnpCO0AbUvzLpgt

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



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

PLATES (table in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25 2.00
E	BMVW+w	MT20	2.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

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

JT	FACTORED		MAXIMUM FACTORED		INPUT		REQD	
	GROSS REACTION	VERT	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
F	450	0	450	0	5-8	5-8		
C	270	0	270	0	1-8	1-8		
D	54	0	61	0	1-8	1-8		

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	318	221 / 0	0 / 0	0 / 0	0 / 0	95 / 0	0 / 0
C	188	150 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0
D	43	0 / 0	0 / 0	0 / 0	0 / 0	43 / 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: (4)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX. FORCE	VERT. LOAD	LC1	MAX	MAX. MEMB.	MAX. FORCE	MAX	
	(LBS)	(PLF)	CSI (LC)	UNBRAC	LENGTH	(LBS)	CSI (LC)	
FR-TO		FROM TO			FR-TO			
F-B	-385 / 0	0.0	0.0	0.04 (1)	7.81	0 / 0	0.00 (1)	
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00			
B-C	0 / 0	-91.8	-91.8	0.54 (1)	10.00			
F-E	0 / 0	-18.5	-18.5	0.14 (4)	10.00			
E-D	0 / 0	-18.5	-18.5	0.19 (4)	10.00			

TOTAL WEIGHT = 25 X 19 = 480 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL. (LL) = $L/360$ (0.20")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.00")
ALLOWABLE DEFL. (TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.05")

CSI: TC=0.54/1.00 (B-C:1), BC=0.19/1.00 (D-E:4),
WB=0.00/1.00 (B-E:1), SS=0.17/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

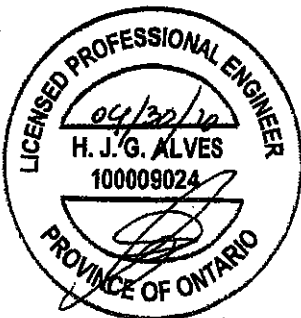
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

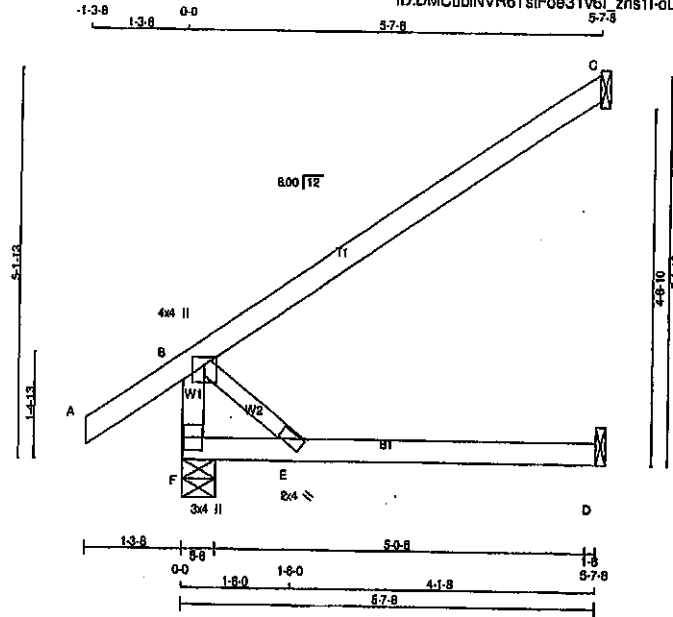
JSI GRIP= 0.28 (8) (INPUT = 0.90)
JSI METAL= 0.08 (8) (INPUT = 1.00)



Structural component only
DWG# T-2007880

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408313	J30	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TsiFoe31v6l_zns11-oLmSBU0VrWIG1kHWWXbuULKXsqr0N8qGm2dO4zLbrd



TOTAL WEIGHT = 2 X 19 = 37 lb

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.25 2.00
E	BMVW+w	MT20	2.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
F	436	0	436	0	0
C	258	0	258	0	0
D	52	0	58	0	0

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

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	308	214/0	0/0	0/0	0/0	92/0	0/0
C	178	144/0	0/0	0/0	0/0	34/0	0/0
D	42	0/0	0/0	0/0	0/0	42/0	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: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	FORCE (LBS)	MAX	LC1 (LBS)
FR-TO		FROM	TO	FR-TO			
F-B	-384/0	0.0	0.0 0.04 (1)	B-E	0/0	0.00 (1)	
A-B	0/35	-91.8	-91.8 0.12 (1)				
B-C	0/0	-91.8	-91.8 0.49 (1)				
F-E	0/0	-18.5	-18.5 0.13 (4)				
E-D	0/0	-18.5	-18.5 0.17 (4)				

DESIGN CRITERIA

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

SPACING = 24.0 IN. OC

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

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

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

ALLOWABLE DEFL. (LL) = L/360 (0.19")
CALCULATED VERT. DEFL. (LL) = L/999 (0.00")
ALLOWABLE DEFL. (TL) = L/360 (0.19")
CALCULATED VERT. DEFL. (TL) = L/999 (0.05")

CSI: TC=0.49/1.00 (B-C:1), BC=0.17/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=0.17/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	818 354	1867 788 1987 1856

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.27 (B) (INPUT = 0.90)
JSI METAL= 0.08 (B) (INPUT = 1.00)

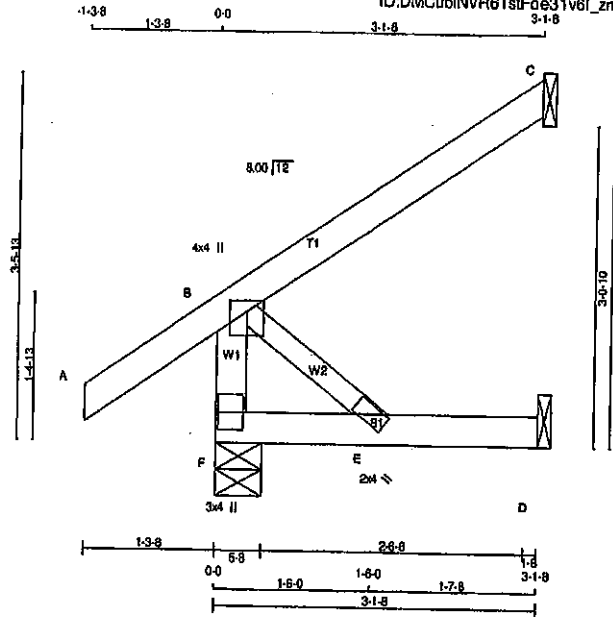


Structural component only
DWG# T-2007910

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408313	J31	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TstFoe31v6l_zns1l-kjuCcA2IN7Z_G2mgdydMamP5LGXAUHe6k4XkSzzLbrb

Scale = 1:20.2



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

PLATES (table in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.25 2.00
E	BMVW+p	MT20	2.0	4.0	
F	BMV+p	MT20	3.0	4.0	

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	DOWN	BRG	UP	BRG	IN-SX
F	298	0	298	0	0	5-8	5-8	5-8	5-8
C	143	0	143	0	0	1-8	1-8	1-8	1-8
D	29	0	32	0	0	1-8	1-8	1-8	1-8

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

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN COMPONENT REACTIONS		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	COMBINED	SNOW	LIVE	PERM. LIVE
F	208	150 / 0	0 / 0	0 / 0	0 / 0	58 / 0	0 / 0	208	150 / 0	0 / 0	0 / 0
C	99	80 / 0	0 / 0	0 / 0	0 / 0	19 / 0	0 / 0	99	80 / 0	0 / 0	0 / 0
D	23	0 / 0	0 / 0	0 / 0	0 / 0	23 / 0	0 / 0	23	0 / 0	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		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1	MAX. MEMB. FORCE (LBS)	UNBRACED LENGTH	MEMB. FORCE (LBS)	MAX. MEMB. FORCE (LBS)
FR-TO		FROM	TO				
F-B	-269 / 0	0.0	0.0	0.03 (1)	7.81	B-E	0 / 0
A-B	0 / 35	-91.8	-91.8	0.13 (5)	10.00		
B-C	0 / 0	-91.8	-91.8	0.15 (1)	10.00		
F-E	0 / 0	-18.5	-18.5	0.05 (4)	10.00		
E-D	0 / 0	-18.5	-18.5	0.05 (4)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 12 = 25 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

CSI: TC=0.15/1.00 (B-C:1), BC=0.05/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=0.09/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 1687 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

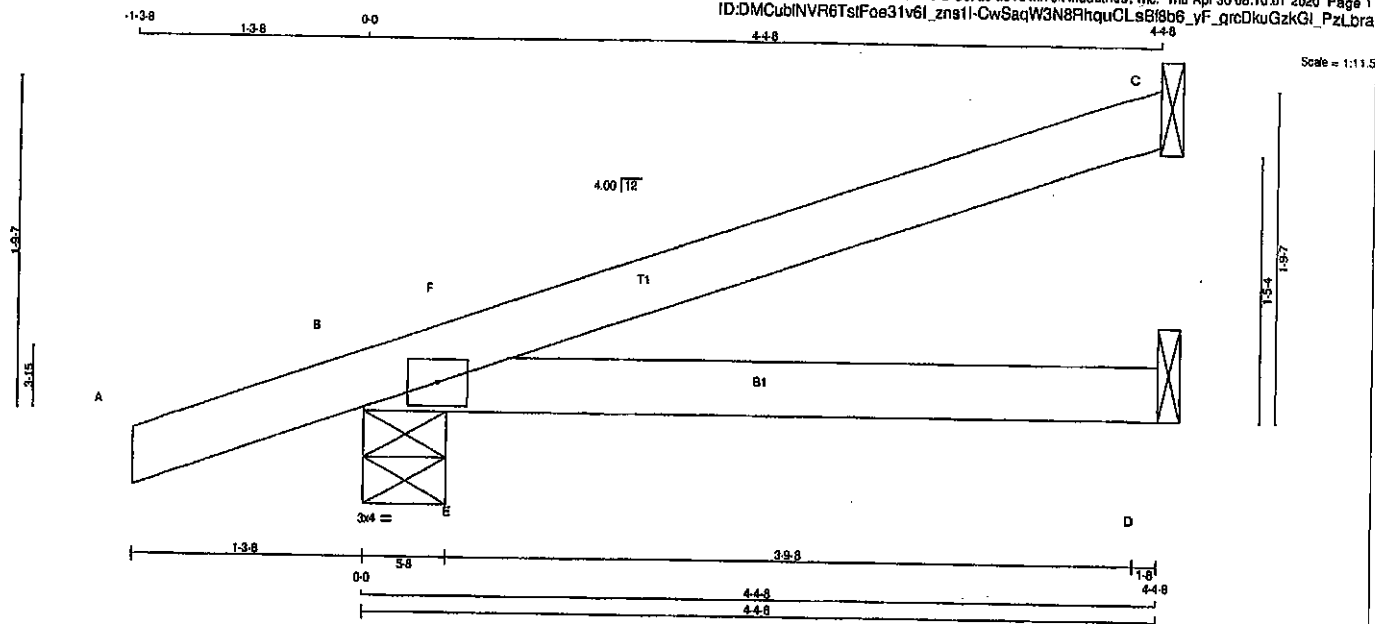
JSI GRIP= 0.19 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007911

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 5 X 12 = 60 lb

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

PLATES (tablets in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
C	174	0	174	0	0	1-8	1-8
B	364	0	364	0	0	5-8	5-8
D	68	0	68	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
C	120	93 / 0	0 / 0	0 / 0	0 / 0	27 / 0	0 / 0
B	255	180 / 0	0 / 0	0 / 0	0 / 0	75 / 0	0 / 0
D	50	19 / 0	0 / 0	0 / 0	0 / 0	32 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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				WEBB			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO		FR-TO			
A-B	0/18	-91.8	-91.8 0.11 (1)	10.00	E-F	-194/7	0.00 (1)
B-F	-14/0	-91.8	-91.8 0.05 (4)	8.25			
F-C	0/2	-91.8	-91.8 0.22 (1)	10.00			
B-E	0/0	-18.5	-18.5 0.17 (1)	10.00			
E-D	0/0	-18.5	-18.5 0.17 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	26.6	PSF
	DL =	8.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.4	PSF
TOTAL LOAD	=	39.0	PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/899 (0.05")

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

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

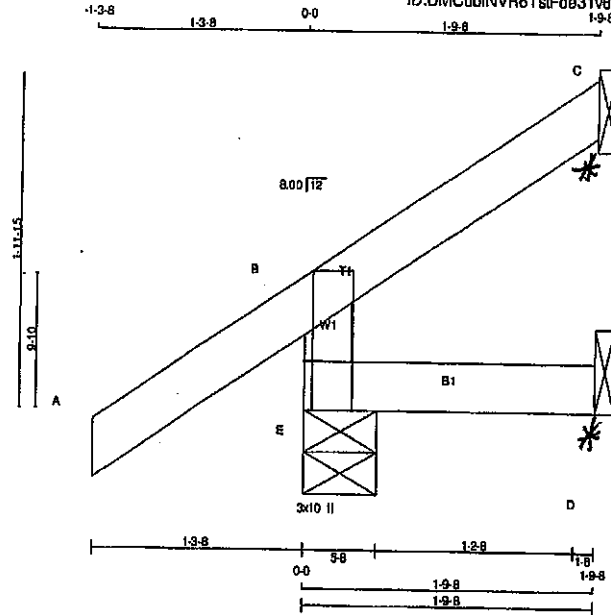


Structural component only
DWG# T-2007912

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ORWG NO.
408313	J33	3	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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Scale = 1:12.7



LUMBER			
N. L. G. A. RULE	SIZE	LUMBER	DESCR.
CHORDS			SPF
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					
E					
	TMBV1+p	MT20	3.0	10.0	Edge 0.50

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	GROSS REACTION	GROSS REACTION	GROSS REACTION	BRG	BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT
E	273	0	273	0	5.8
C	47	0	47	0	1.8
D	4	0	15	0	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		1ST LCASE	MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
E	190	143 / 0	0 / 0	0 / 0	0 / 0	47 / 0	0 / 0	
C	32	25 / -16	0 / 0	0 / 0	0 / 0	7 / 0	0 / 0	
D	4	0 / -11	0 / 0	0 / 0	0 / 0	11 / 0	0 / 0	

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

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS		MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	FORCE MAX
FR-TO		FROM	TO	LENGTH	FR-TO
E-B	-244 / 0	0.0	0.0	0.05 (5)	7.81
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00
B-C	-20 / 0	-91.8	-91.8	0.09 (1)	6.25
E-D	0 / 0	-18.5	-18.5	0.05 (5)	10.00

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 7 = 21 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

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 2015, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIG 2011, TPIG 2014

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

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

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

CSI: TC=0.12/1.00 (A-B:1), SC=0.05/1.00 (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

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 1067 788 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.08 (E) (INPUT = 0.80)
JSI METAL= 0.08 (E) (INPUT = 1.00)

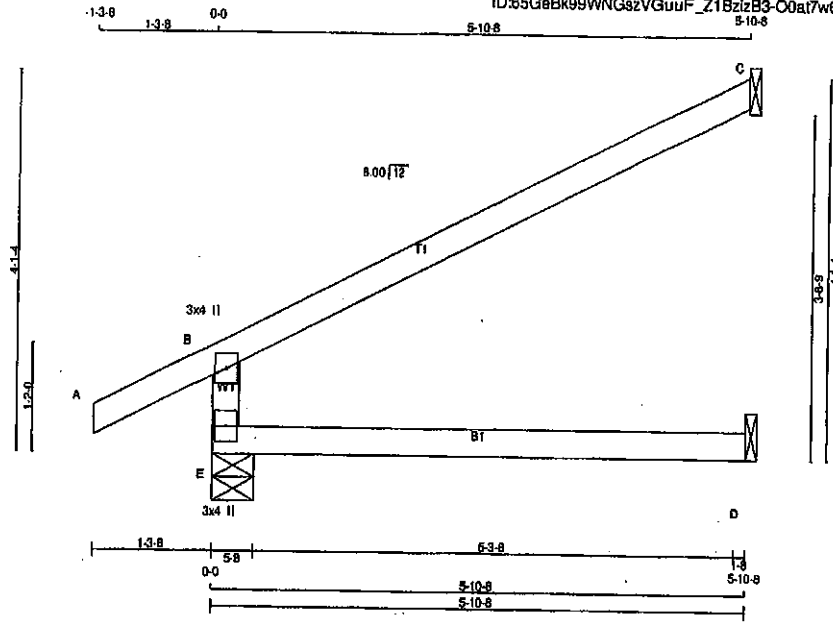


Structural component only
DWG# T-2007913

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408314	J60	15	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:22.9



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

DRY: SEASONED LUMBER.

PLATES (tablets in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
E	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 REQD	
	VERT	HORZ	DOWN	HORZ	BRG	IN-SX
E	525	0	525	0	5-8	5-8
C	202	0	202	0	1-8	1-8
D	45	0	50	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST CASE		MAX/MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	389	257 / 0	0 / 0	0 / 0	0 / 0	111 / 0	0 / 0
C	139	113 / 0	0 / 0	0 / 0	0 / 0	26 / 0	0 / 0
D	36	0 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		MAX. UNBRACED LENGTH	MEMB.	WEBS	
	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (PLF)	LC2 MAX (PLF)			MAX. FACTORED FORCE (LBS)	MAX. FACTORED (LC)
FR-TO						FR-TO		
E-B	-461 / 0	0.0	0.0	0.13 (4)	7.81			
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00			
B-C	-30 / 0	-91.8	-91.8	0.54 (1)	6.25			
E-D	0 / 0	-18.5	-18.5	0.13 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 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 NBCC 2018, CBC 2012, ABC 2010
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.54/1.00 (B-C:1), BC=0.13/1.00 (D-E:4),
WB=0.00/1.00 (n/a:0), SS=0.24/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 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	SECTION
(PS)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1687 788

PLATE PLACEMENT TOL. = 0.250 inches

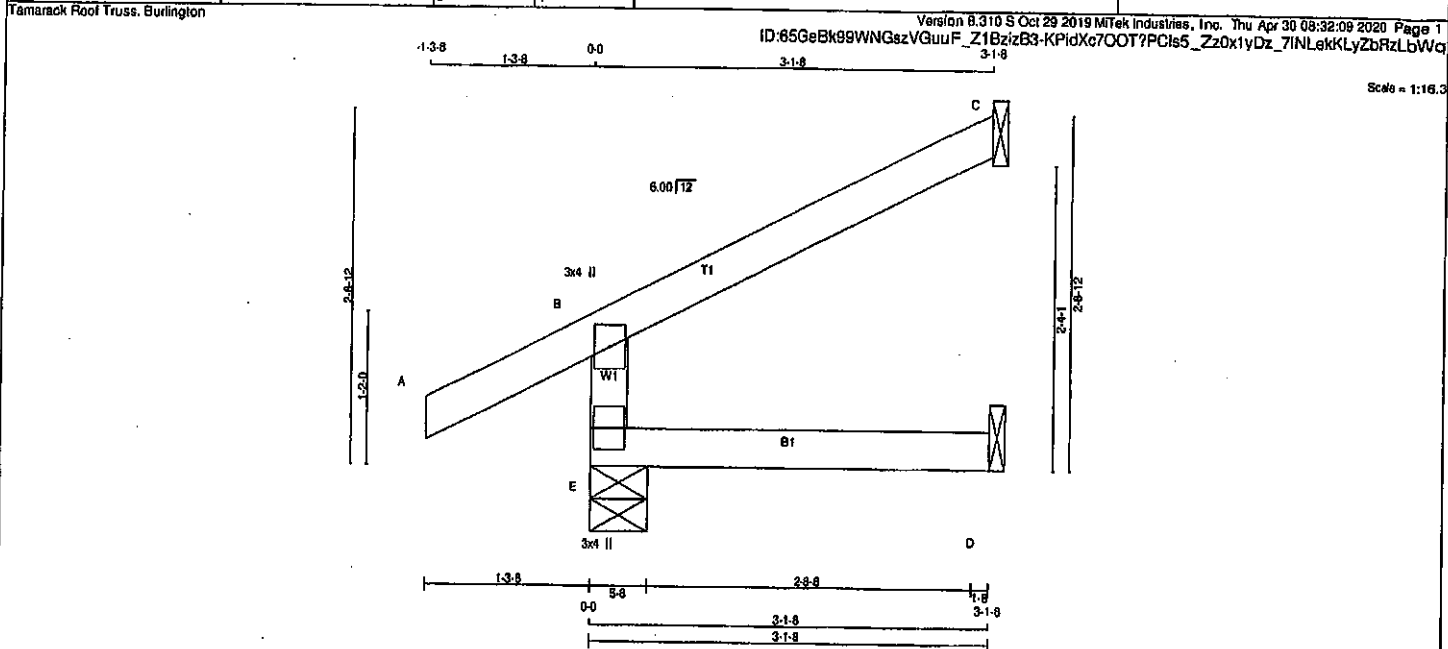
PLATE ROTATION TOL = 5.0 Deg.

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



Structural component only
DWG# T-2007949

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408314	J61	5	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 08:32:09 2020 Page 1	



LUMBER	DESCR.
N. L. G. A. RULES	SPF
CHORDS	SPF
E - B	SPF
A - C	SPF
E - D	SPF
DRY: SEASONED LUMBER.	

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	HORIZ	UPLIFT
E	336	0	0	5-8
C	108	0	0	1-8
D	25	0	0	1-8

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

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	235	169/0	0/0	0/0	0/0	88/0	0/0
C	74	60/0	0/0	0/0	0/0	14/0	0/0
D	20	0/0	0/0	0/0	0/0	20/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX. UNBRACED LENGTH	FR-TO	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	FR-TO
E-B		-304/0	0.0	0.0	0.03 (4)	7.81					
A-B		0/28	-91.8	-91.8	0.13 (5)	10.00					
B-C		-16/0	-91.8	-91.8	0.15 (1)	8.25					
E-D		0/0	-18.5	-18.5	0.04 (4)	10.00					

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 5 X 10 = 51 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. C/C

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

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

DESIGN ASSUMPTIONS
OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.15/1.00 (B-C:1), BC=0.04/1.00 (D-E:4), WB=0.00/1.00 (N/A:0), SS=0.12/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

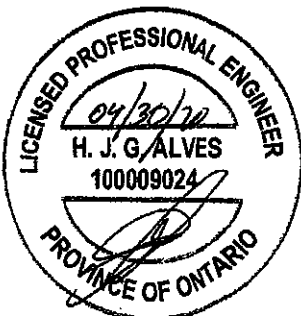
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP (P) 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 = 0.13 (E) (INPUT = 0.90)
JSI METAL = 0.08 (E) (INPUT = 1.00)



Structural component only
DWG# T-2007950

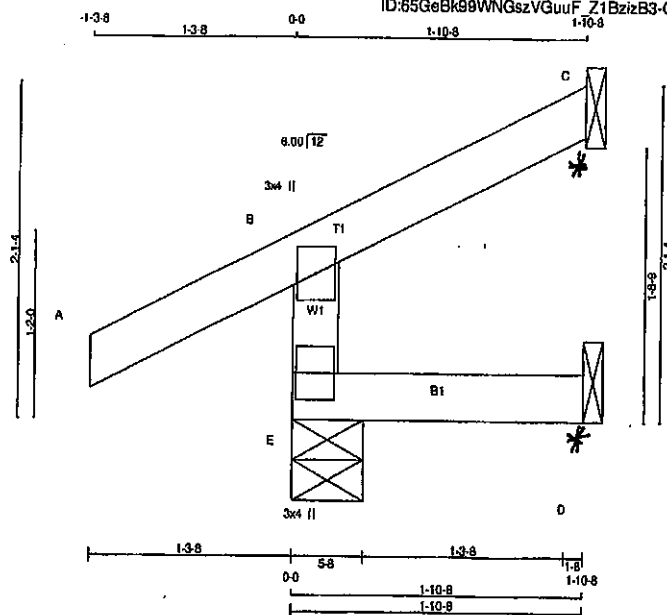
Structural component only
DWG# T-2007951

JOB NAME 408314	TRUSS NAME J63	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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Scale = 1:13.3



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0	
E	BMV1+p	MT20	3.0	4.0	

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

BEARINGS							
	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
JT	273	0	273	0	0	5-8	5-8
E	50	0	50	0	-20	1-8	1-8
C	8	0	17	0	-2	1-8	1-8

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

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

UNFACTORED REACTIONS

JT	1ST CASE		MAX/MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	180	143/0	0/0	0/0	0/0	47/0	0/0
C	35	27/-17	0/0	0/0	0/0	7/0	0/0
D	8	0/-8	0/0	0/0	0/0	12/0	0/0

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

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: (6)

CHORDS				WEBS				
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1 MAX (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1 MAX (PLF)
FR-TO		FROM	TO		FR-TO		FROM	TO
E-B	-247 / 0	0.0	0.0	0.04 (5)	7.81			
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00			
B-C	-18 / 0	-91.8	-91.8	0.09 (1)	8.25			
E-D	0 / 0	-18.5	-18.5	0.04 (5)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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

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

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

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

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.04/1.00 (D-E:5),
WB=0.00/1.00 (N/A:0), SSI=0.08/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.10 (E) (INPUT = 0.90)
JSI METAL = 0.07 (B) (INPUT = 1.00)

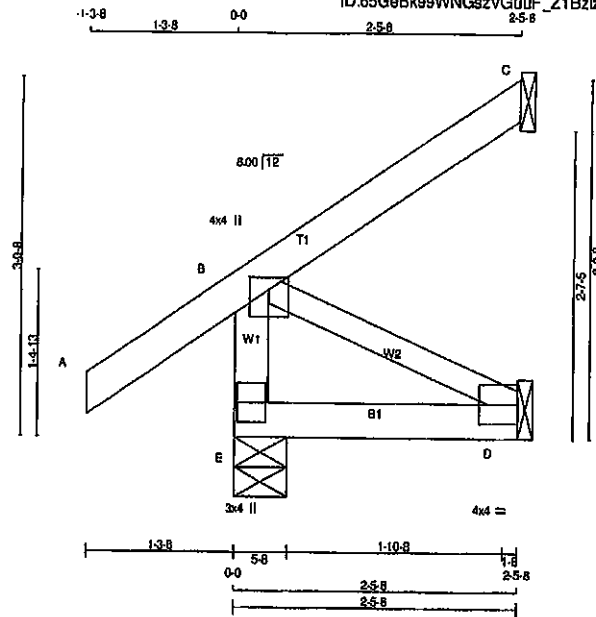


Structural component only
DWG# T-2007952

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408314	J64	6	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

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Scale = 1:18.0



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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.25 2.00
D	BMV1-i	MT20	4.0	4.0	2.00 Edge
E	BMV1+p	MT20	3.0	4.0	

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX
E	280	0	280	0	0	5-8	5-8	
C	113	0	113	0	0	1-8	1-8	
D	22	0	24	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM LIVE			
E	182	133/0	0/0	0/0	0/0	48/0	0/0
C	78	83/0	0/0	0/0	0/0	15/0	0/0
D	17	0/0	0/0	0/0	0/0	17/0	0/0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (6)

MEMB.	CHORDS		FACTORED		MAX. FACTORED	MEMB.	WEBS		MAX. FACTORED
	FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX. CS1 (LC)			FORCE (LBS)	MAX. CS1 (LC)	
FR-TO		FROM TO				FR-TO			
E-B	-239/0	0.0	0.0	0.02 (1)	7.81	B-D	0/0	0.00 (1)	
A-B	0/35	-91.8	-91.8	0.13 (5)	10.00				
B-C	0/0	-91.8	-91.8	0.09 (1)	10.00				
E-D	0/0	-18.5	-18.5	0.03 (4)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2010, NBC 2015, ABC 2010
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (TL) = L/360 (0.19")
CALCULATED VERT. DEFL. (TL) = 1/999 (0.00")

CSI: TC=0.13/1.00 (A-B:5), BC=0.03/1.00 (D-E:4), WB=0.00/1.00 (B-D:1), SS1=0.08/1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1887 788 1957 1658

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.17 (B) (INPUT = 0.80)
JSI METAL= 0.05 (B) (INPUT = 1.00)

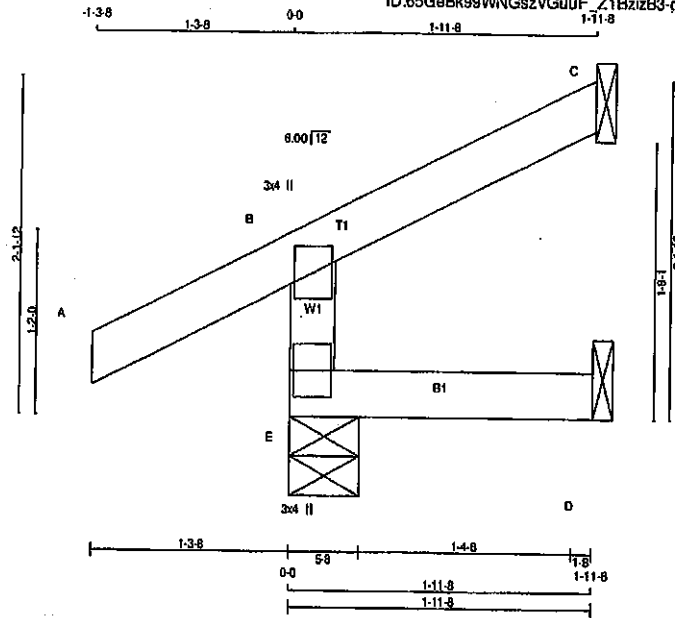


Structural component only
DWG# T-2007953

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408314	J65	3	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:13.6



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 in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMV+p	MT20	3.0	4.0		
E BMV1+p	MT20	3.0	4.0		

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
E	258	0	258	0
C	88	0	88	0
D	16	0	16	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	179	132/0	0/0	0/0	0/0	0/0	47/0	0/0
C	47	38/0	0/0	0/0	0/0	0/0	9/0	0/0
D	13	0/0	0/0	0/0	0/0	0/0	13/0	0/0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (LC1)	MAX. FACTORED UNBRACED LENGTH (LC2)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH (LC1)	MAX. FACTORED UNBRACED LENGTH (LC2)
FR-TO								
E-B	-238/0	0.0	0.0	0.01 (4)	7.81			
A-B	0/28	-91.8	-91.8	0.12 (1)	10.00			
B-C	-10/0	-91.8	-91.8	0.06 (1)	10.00			
E-D	0/0	-18.5	-18.5	0.02 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. G.C.

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

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

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.02/1.00 (D-E:4), WS=0.00/1.00 (A-A:0), SSI=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 1907 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.10 (E) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)

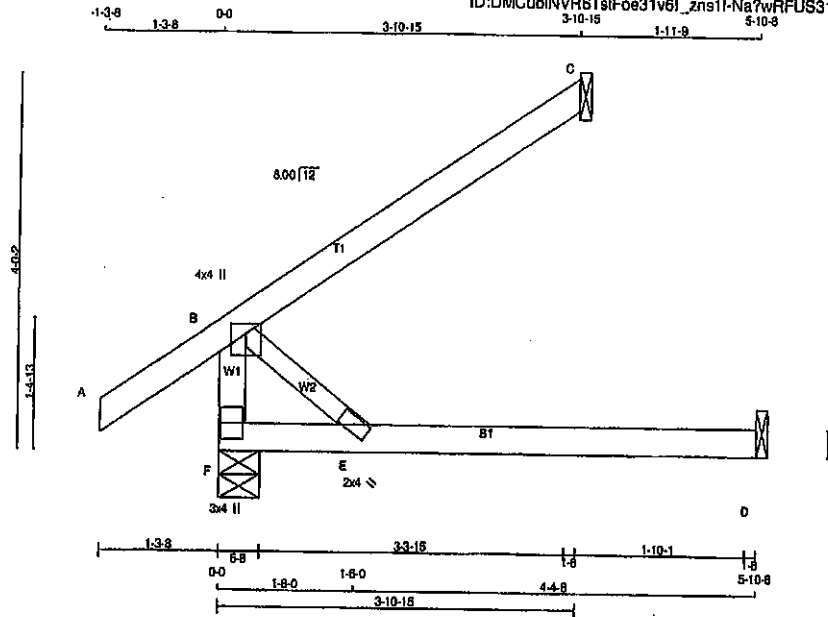


Structural component only
DWG# T-2007954

JOB NAME 408312	TRUSS NAME C1	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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TOTAL WEIGHT = 2 X 17 = 33 b

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

DESCR.
SPF
SPF
SPF

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

BEARINGS

JT	FACTORED GROSS REACTION		GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
F	360	0	360	0	5-8	5-8
C	179	0	179	0	1-8	1-8
D	54	0	61	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	254	170/0	0/0	0/0	0/0	83/0	0/0
C	124	100/0	0/0	0/0	0/0	23/0	0/0
D	43	0/0	0/0	0/0	0/0	43/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM	TO	FR-TO		FROM	TO
F-B	-305/0	0.0	0.0	0.03 (1)	7.81	B-E	0/0
A-B	0/35	-91.8	-91.8	0.12 (1)	10.00		0.00 (1)
B-C	0/0	-91.8	-91.8	0.24 (1)	10.00		
F-E	0/0	-18.5	-18.5	0.14 (4)	10.00		
E-D	0/0	-18.5	-18.5	0.19 (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 2018
- PART 9 OF OBC 2012 (2018 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(65% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 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) = $L/999$ (0.05")

CSI: TC=0.24/1.00 (B-C:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), GS=0.12/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1587 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



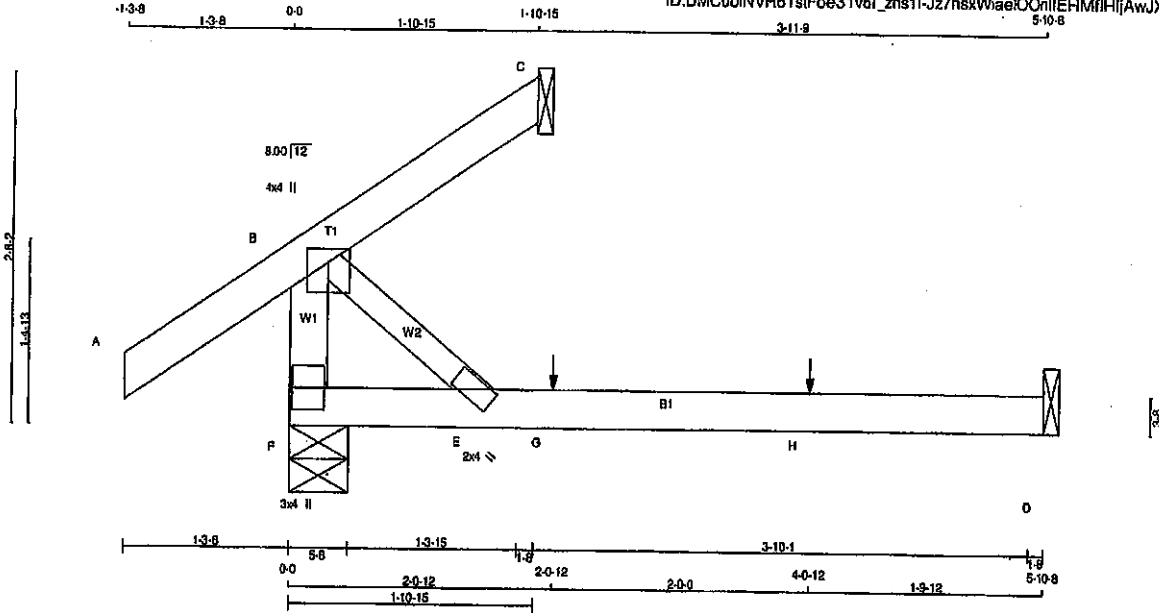
Structural component only
DWG# T-2007874

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408312	C2	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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5-10-8

Scale = 1:16.2



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

PLATES (table in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.25 2.00
E	BMVW+p	MT20	2.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

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

FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
JT	VERT	GROSS REACTION	DOWN	HORIZ	UPLIFT	BRG	BRG
F	313	0	313	0	0	5-8	5-8
C	42	0	42	0	0	1-8	1-8
D	54	0	61	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	PERM. LIVE	WIND	DEAD	SOIL	COMBINED	SNOW	LIVE	PERM. LIVE
F	222	144 / 0	0 / 0	0 / 0	0 / 0	77 / 0	0 / 0				
C	29	24 / 0	0 / 0	0 / 0	0 / 0	8 / 0	0 / 0				
D	43	0 / 0	0 / 0	0 / 0	0 / 0	43 / 0	0 / 0				

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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.	FORCE (LBS)	VERT. LOAD (LBS)	MAX. (LBS)	MEMB.	FORCE (LBS)	MAX. (LBS)	CS (LBS)
FR-TO		FROM	TO	FR-TO		FROM	TO
F-B	259 / 0	0.0	0.0 0.03 (1)	7.81	B-E	0 / 0	0.00 (1)
A-B	0 / 35	-91.8	-91.8 0.13 (1)	10.00			
B-C	-25 / 0	-91.8	-91.8 0.12 (1)	8.25			
F-E	0 / 0	-18.5	-18.5 0.14 (4)	10.00			
E-G	0 / 0	-18.5	-18.5 0.19 (4)	10.00			
G-H	0 / 0	-18.5	-18.5 0.19 (4)	10.00			
H-D	0 / 0	-18.5	-18.5 0.19 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	2-0-12	1	1	---	BACK	VERT	TOTAL	---	C1
H	4-0-12	1	1	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 3 X 14 = 42 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

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 2010, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL) = 1/360 (0.20")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.00")
ALLOWABLE DEFL.(TL) = 1/360 (0.20")
CALCULATED VERT. DEFL.(TL) = 1/999 (0.05")

CS: TC=0.13/1.00 (A-B:1), 8C=0.18/1.00 (D-E:4),
WB=0.00/1.00 (B-E:1), SS=0.09/1.00 (B-C: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	618 354	1667 788	1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

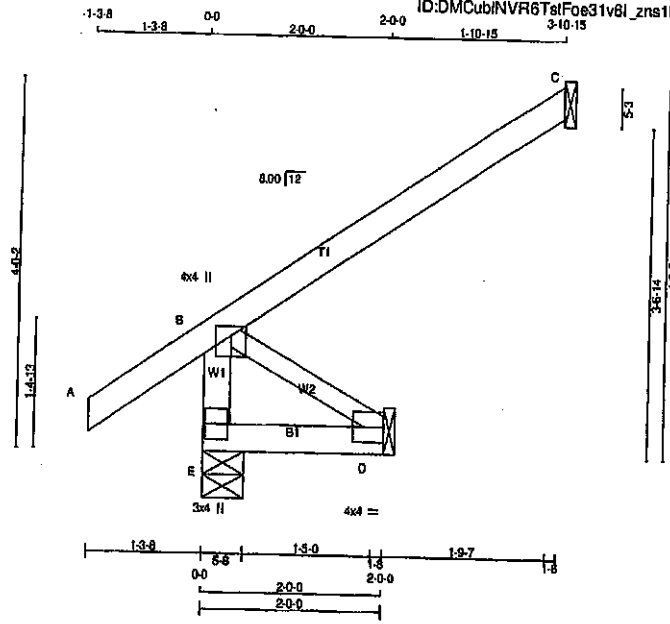


Structural component only
DWG# T-2007875

JOB NAME 408312	TRUSS NAME C3	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Wed Apr 29 16:25:55 2020 Page 1
ID:DMCubINVR6TstFos3Iv6I_zns11-n9h33HXKLyf?xytyo_luHUrS9JhOzWaTEKsqizLpgg
3-10-15

Scale = 1:23.0



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

DESCR
SPF
SPF
SPF
SPF

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
E	323	0	323	0	0	5-8	5-8
C	179	0	179	0	0	1-8	1-8
D	18	0	20	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LOSE	MAX. MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	224	170 / 0	0 / 0	0 / 0	0 / 0	54 / 0	0 / 0
C	124	100 / 0	0 / 0	0 / 0	0 / 0	23 / 0	0 / 0
D	14	0 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0

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

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)
FR-TO		FR-TO	
E-B	-305 / 0	8-D	0 / 0
A-B	0 / 35		
B-C	0 / 0		
E-D	0 / 0		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 12 = 37 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. OC

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

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

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

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

CSI: TC=0.24/1.00 (B-C:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (B-D:1), SS=0.12/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

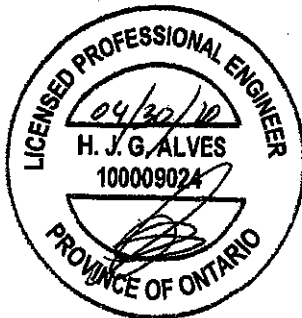
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

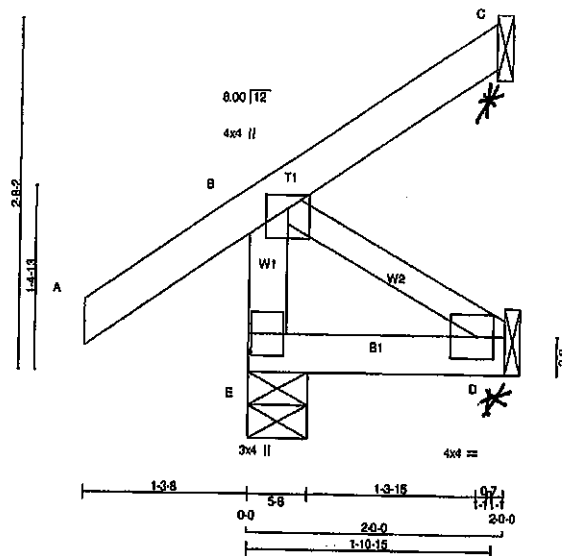


Structural component only
DWG# T-2007876

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TstFoe31v6l_zns1l-FLFRHdYy6F75d4S8MhO7qIN3ij0dizqcT0COL8zLpg
1-10-15 2-0-0
1-10-15 2-0-0
1-10-15 2-0-0

Scale = 1:18.2



TOTAL WEIGHT = 3 X 10 = 29 lb

LUMBER

N. L. G. A. FILES

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

ALL WEBS 2x3 DRY
DRY: SEASONED LUMBER

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

BEARINGS

		FACTORED		MAXIMUM FACTORED		INPUT	REQRD
		GROSS REACTION		GROSS REACTION		BRG	BRG
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
E	C	276	0	276	0	0	5-8
		42	0	42	0	-35	1-8
D		18	0	20	0	0	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

UNFACTORED REACTIONS

1ST CASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	192	144 / 0	0 / 0	0 / 0	0 / 0	48 / 0	0 / 0
O	29	24 / 25	0 / 0	0 / 0	0 / 0	6 / 0	0 / 0
D	14	0 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0

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

FRACING

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

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS				WEBB			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSF (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSF (LC)
FR-TO		FROM TO		FR-TO			
E-B	-259 / 0	0.0 0.0	0.03 (1)	7.81	B-D	0 / 0	0.00 (1)
A-B	0 / 35	-91.8 -91.8	0.12 (1)	10.00			
B-C	-25 / 0	-91.8 -91.8	0.12 (1)	6.25			
E-D	0 / 0	-16.5 -16.5	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,
NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(TL)= $L/360$ (0.19")

CALCULATED VERT. DEFL.(TL) = $L/998$ (0.00")

CSI: TC=0.12/1.00 (A-B:1), BC=0.02/1.00 (D-E:4),
WB=0.00/1.00 (B-D:1), SSI=0.09/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)		SHEAR		SECTION	
	(PSI)		(PLI)		(PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1687	788	1987	1856

PLATE PLACEMENT TOL. = 0.250 inches

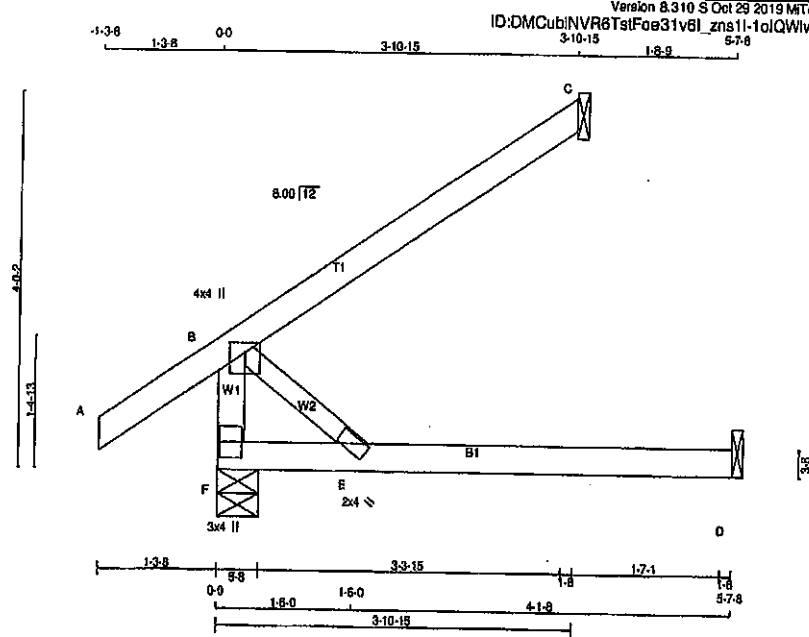
PLATE ROTATION TOL = 5.0 Deg.

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



Structural component only
DWG# T-2007877

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408313	C30	1	1	GREEN PARK HOMES	
Tamarack Road Truss, Burlington					
Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 08:09:50 2020 Page 1					
ID:DMCubINVR6TstF0a31v6I_zns11-1aIQWiwUk3IQ3W7i2rR0Af_NXE5z8I9eRX6C5VzLbr					
3-10-15 3-10-15 1-8-9 5-7-8					



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

PLATES (tube is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.25 2.00
E	BMVW+w	MT20	2.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
F	357	0	357	0	0
C	179	0	179	0	0
D	52	0	58	0	0

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

UNFACTORED REACTIONS		1ST CASE	MAX / MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE	PERM. LIVE
F	252	170 / 0	0 / 0	0 / 0
C	124	100 / 0	0 / 0	0 / 0
D	42	0 / 0	0 / 0	0 / 0

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MEMB.	FORCE (LBS)
F-B	-305 / 0	0.0	0.0 0.03 (1)	B-E	0 / 0
A-B	0 / 35	-91.8	-91.8 0.12 (1)		
B-C	0 / 0	-91.8	-91.8 0.24 (1)		
F-E	0 / 0	-18.5	-18.5 0.13 (4)		
E-D	0 / 0	-18.5	-18.5 0.17 (4)		

DESIGN CRITERIA

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

SPACING = 24.0 N.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

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

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TO=0.24/1.00 (B-C:1), BC=0.17/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=0.12/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

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

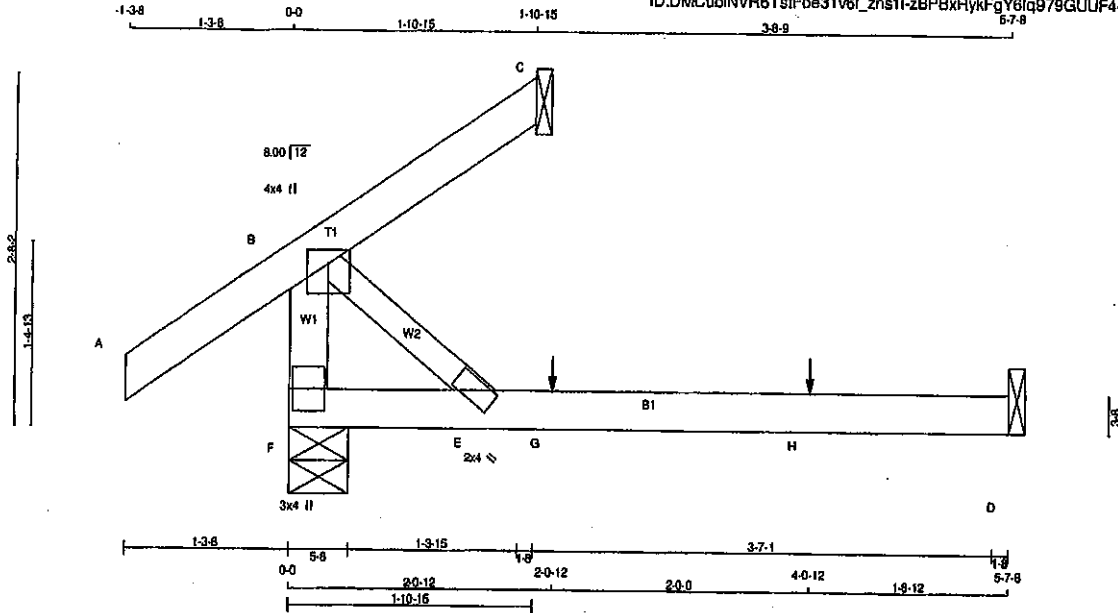


Structural component only
DWG# T-2007904

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408313	C31	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:16.2



TOTAL WEIGHT = 13 lb

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

PLATES (table in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.25 2.00
E	BMW+p	MT20	2.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

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

BEARINGS							
JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG			
F	311	311	0	5-8	5-8		
C	42	42	0	1-8	1-8		
D	52	58	0	1-8	1-8		

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

UNFACTORED REACTIONS							
JT	1ST CASE	MAX/MIN	COMPONENT REACTIONS				
F	220	144/0	0/0	0/0	0/0	75/0	0/0
C	29	24/0	0/0	0/0	0/0	8/0	0/0
D	42	0/0	0/0	0/0	0/0	42/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) F, 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 (PL)	MAX. CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)	
F-B	-259/0	0.0	0.0 (1)	7.81	B-E	0/0	0.00 (1)
A-B	0/35	-91.8	-91.8 (1)	10.00			
B-C	-25/0	-91.8	-91.8 (1)	6.25			
F-E	0/0	-18.5	-18.5 (4)	10.00			
E-G	0/0	-18.5	-18.5 (4)	10.00			
G-H	0/0	-18.5	-18.5 (4)	10.00			
H-D	0/0	-18.5	-18.5 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)							
JT	LOC.	LOC.	MAX.	FACE	DIR.	TYPE	HEEL
G	2-0.12	1	1	FRONT	VERT	TOTAL	C1
H	4-0.12	1	1	FRONT	VERT	TOTAL	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 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, NBCO 2010, NBCO 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCO 2010, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/899 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.12/1.00 (A-B:1), BC=0.17/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=0.08/1.00 (B-C:1)

DOL LUMBER=0.99 NAIL=0.99 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

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

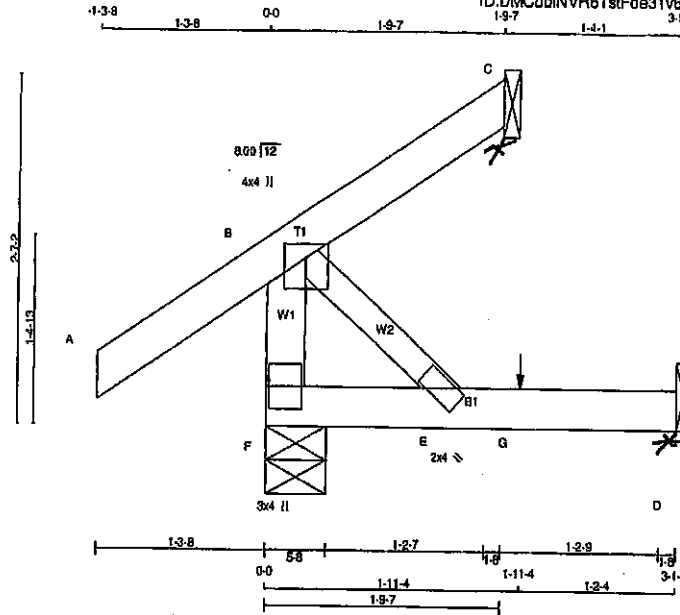


Structural component only
DWG# T-2007905

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408313	C32	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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Scale = 1:15.8



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

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
	B	TMVW+p	MT20	4.0	4.0	1.25 2.00
	E	BMVW+p	MT20	2.0	4.0	
	F	BMV1+p	MT20	3.0	4.0	

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	VERT	DOWN	UP	IN-SX
F	285	0	0	5-8
C	34	0	34	1-8
D	28	0	32	1-8

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

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 160 LBS FACTORED UPLIFT

UNFACTORED REACTIONS	1ST LCASE	MAX/MIN COMPONENT REACTIONS
JT	COMBINED	SNOW LIVE PERM LIVE WIND DEAD SOIL
F	200	143 / 0 0 / 0 0 / 0 0 / 0 57 / 0 0 / 0
C	23	19 / -27 0 / 0 0 / 0 0 / 0 4 / 0 0 / 0
D	23	0 / 0 0 / 0 0 / 0 0 / 0 23 / 0 0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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: (6)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1 MAX. (PLF)	LC1 MAX. (LBS)	MAX. UNBRACED LENGTH FT-TO	WEBS	MAX. FACTORED FORCE (LBS)	MAX. (LBS)
FR-TO						FR-TO		
F-B	-258 / 0	0.0	0.0	0.03 (1)	7.81	B-E	0 / 0	0.00 (1)
A-B	0 / 35	-91.8	-91.8	0.14 (5)	10.00			
B-C	-27 / 0	-91.8	-91.8	0.13 (5)	6.25			
F-E	0 / 0	-18.5	-18.5	0.05 (4)	10.00			
E-G	0 / 0	-18.5	-18.5	0.05 (4)	10.00			
G-D	0 / 0	-18.5	-18.5	0.05 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)	JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
	G	1-11-4	1	1	--	FRONT	VERT	TOTAL	--	C1

CONNECTION REQUIREMENTS

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 10 = 21 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. OC

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

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

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

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

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLJ)
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= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)

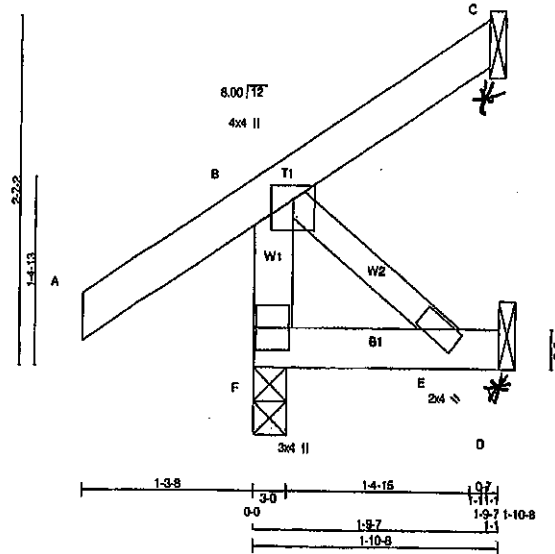


Structural component only
DWG# T-2007906

JOB NAME 408313	TRUSS NAME C33	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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1-3-8 1-3-8 0-0 1-9-7 1-10-8 1-9-7 1-10-8

Scale = 1:15.8



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

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

FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
GROSS REACTION	FACTORED	GROSS REACTION	FACTORED	BRG	IN-SX	BRG	IN-SX
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG	IN-SX
F	274	0	274	0	0	3-0	3-0
C	34	0	34	0	-39	1-8	1-8
D	17	0	18	0	0	1-8	1-8

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

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS		MAX/MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
F	190	143/0	0/0	0/0	0/0	47/0	0/0
C	23	19/-27	0/0	0/0	0/0	4/0	0/0
D	14	0/0	0/0	0/0	0/0	14/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) F, 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		FACTORED				WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX	MAX. UNBRACED LENGTH	MEMB.	FORCE (LBS)	MAX	MAX (LC)
FR-TO		FROM TO				FR-TO			
F-B	-258/0	0.0	0.0	0.03 (1)	7.81	B-E	0/0	0.00 (1)	
A-B	0/35	-91.8	-91.8	0.12 (1)	10.00				
B-C	-27/0	-91.8	-91.8	0.12 (1)	6.25				
F-E	0/0	-18.5	-18.5	0.02 (4)	10.00				
E-D	0/0	-18.5	-18.5	0.01 (4)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 9 = 18 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TFC 2011, TFC 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 (0.10")
CALCULATED VERT. DEFL. (LL) = L/999 (0.00")
ALLOWABLE DEFL. (TL) = L/360 (0.10")
CALCULATED VERT. DEFL. (TL) = L/999 (0.00")

CSI: TC=0.12/1.00 (A-B:1), BC=0.02/1.00 (E-F:4),
WB=0.00/1.00 (B-E:1), SS=0.08/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.18 (B) (INPUT = 0.90)

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



Structural component only
DWG# T-2007907

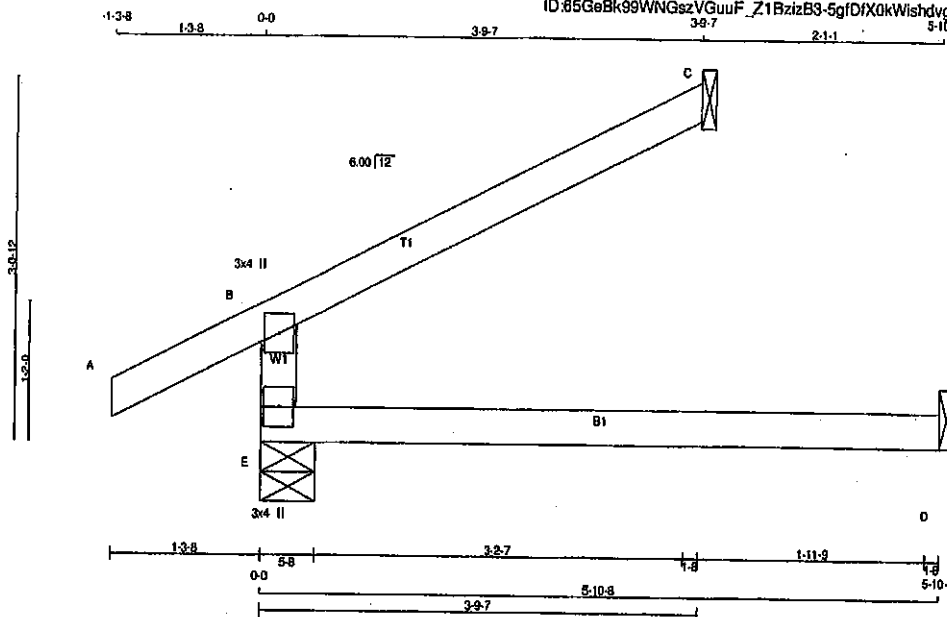
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408314	C60	4	1	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

TRUSS DESC.

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Scale = 1:17.9



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

DRY: SEASONED LUMBER.

PLATES (tablets in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
E	BMV1+p	MT20	3.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		RECORD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX
E	405	0	405	0	0	5-8	5-8	
C	130	0	130	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	MAX/MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	288	180 / 0	0 / 0	0 / 0	0 / 0	88 / 0	0 / 0
C	90	73 / 0	0 / 0	0 / 0	0 / 0	17 / 0	0 / 0
D	36	0 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LOAD LC1 CSI (LC)	MAX. UNBRAC. LENGTH	MEMB. FR-TO	MAX. FORCE (LBS)	FACTORED MAX. LOAD LC1 CSI (LC)
FR-TO		FROM TO					
E-B	-342 / 0	0.0 0.0	0.13 (4)	7.81			
A-B	0 / 28	-91.8 -91.8	0.12 (1)	10.00			
B-C	-19 / 0	-91.8 -91.8	0.22 (1)	6.25			
E-D	0 / 0	-18.5 -18.5	0.13 (4)	10.00			

TOTAL WEIGHT = 4 X 14 = 57 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

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

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

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

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

CSI: TC=0.22/1.00 (B-C:1), BC=0.13/1.00 (D-E:4),
WB=0.00/1.00 (N/A:0), SS=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 (PSI)	SECTION (PL)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1867 768 1987 1858

PLATE PLACEMENT TOL. = 0.250 inches

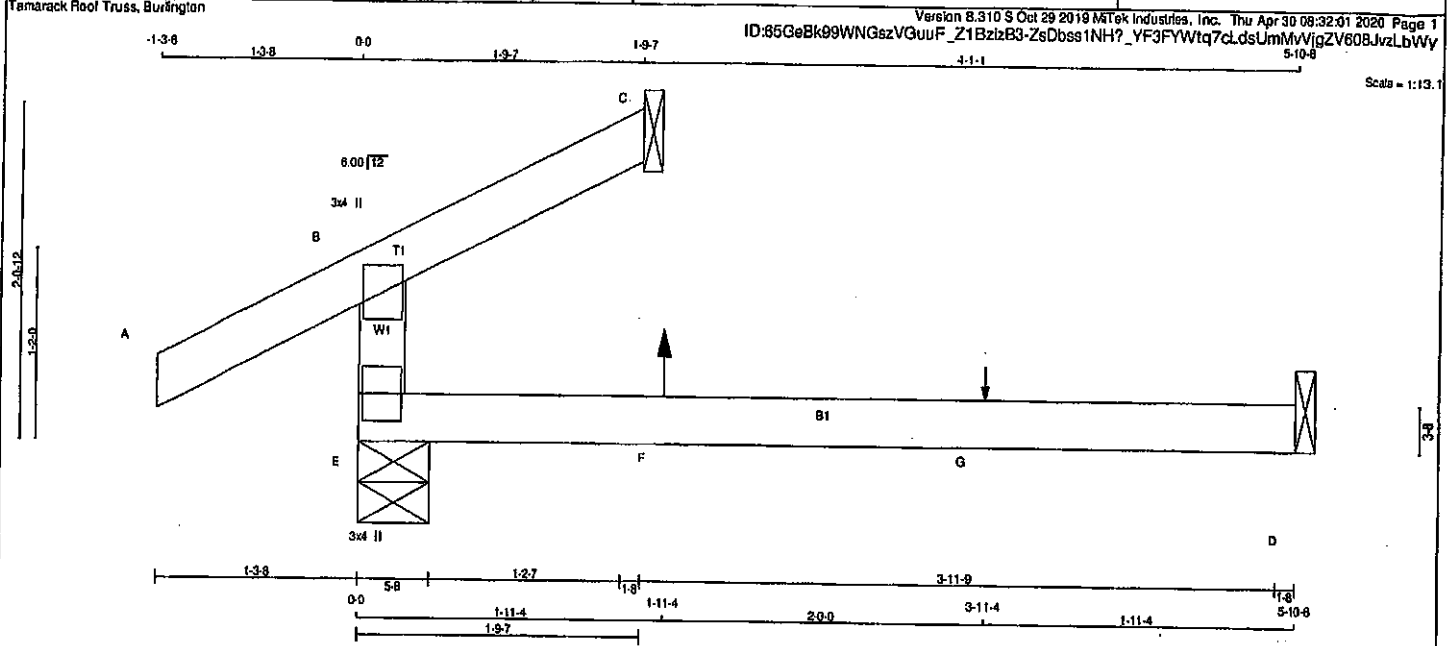
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.14 (E) (INPUT = 0.80)
JSI METAL = 0.09 (E) (INPUT = 1.00)



Structural component only
DWG# T-2007943

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408314	C61	4	1	TRUSS DESC.		



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

DRY; SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y
B	TMV+p	MT20	3.0	4.0	
m	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	COMBINED	GROSS REACTION	SNOW	GROSS REACTION	DOWN	HORIZ	UPLIFT	BRG	BRG
E	284	0	284	0	0	5-8	5-8		
C	63	0	63	0	0	1-8	1-8		
D	44	0	52	0	0	1-8	1-8		

SEE MTEK STANDARD DETAIL B07791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS		1ST LC CASE		MAX/MIN COMPONENT REACTIONS		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL				
E	200	137/0	0/0	0/0	0/0	62/0	0/0				
C	46	21/0	0/0	0/0	0/0	25/0	0/0				
D	36	0/3	0/0	0/0	0/0	37/0	0/0				

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

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

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

LOADING		TOTAL LOAD CASES: (7)		CHORDS		FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT.	LC1	MAX.	MAX.	MEMB.	FORCE (LBS)	MAX.	MAX.	MEMB.	FORCE (LBS)
FR-TO						FR-TO				FR-TO	
E-B	-227/0	0.0	0.0	0.11 (4)	7.81	E-B	-227/0	0.0	0.11 (4)	E-B	-227/0
A-B	0/28	-91.8	-91.8	0.12 (1)	10.00	A-B	0/28	-91.8	-91.8	A-B	0/28
B-C	-9/9	-91.8	-91.8	0.08 (4)	10.00	B-C	-9/9	-91.8	-91.8	B-C	-9/9
E-F	0/0	-18.5	-18.5	0.14 (4)	10.00	E-F	0/0	-18.5	-18.5	E-F	0/0
F-G	0/0	-18.5	-18.5	0.14 (4)	10.00	F-G	0/0	-18.5	-18.5	F-G	0/0
G-D	0/0	-18.5	-18.5	0.14 (4)	10.00	G-D	0/0	-18.5	-18.5	G-D	0/0

FACTORED CONCENTRATED LOADS (LBS)		LOC.		MAX.		FACE		DIR.		TYPE		HEEL		CONN.	
JT	LOC.	LC1	MAX.	MAX.	12	FRONT	VERT	TOTAL							
F	1-11-4	7	1	12	FRONT	VERT	TOTAL								
G	3-11-4	1	1	---	FRONT	VERT	TOTAL								

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

TOTAL WEIGHT = 4 X 12 = 48 lb. (M)

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

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

(55 % OF 21.3 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) = $L/989$ (0.01")
ALLOWABLE DEFL. (TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL. (TL) = $L/989$ (0.04")

CSI: TC=0.12/1.00 (A-B:1), BC=0.14/1.00 (D-E:4),
WB=0.00/1.00 (NA:0), SS=0.08/1.00 (A-B:1)

DOL LUMBER=0.99 NAIL=0.99 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.10 (E) (INPUT = 0.90)
JSI METAL = 0.06 (B) (INPUT = 1.00)

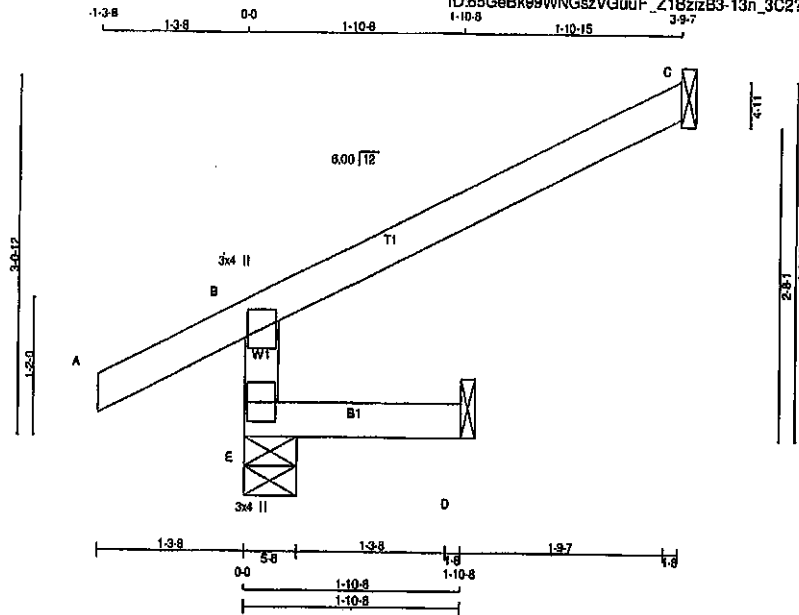


Structural component only
DWG# T-2007944

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408314	C62	4	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:65GeBk99WNGszVGuuF_Z1BzizB3-13n_3C272J6PsDq4bLM9Y9?cAk1EawjmmirLzLbWx

Scale = 1:18.2



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			SPF
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	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	GROSS REACTION	BRG	BRG
E	361	0	361	0	5-8
C	130	0	130	0	1-8
D	16	0	17	0	1-8

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

UNFACTORED REACTIONS		1ST CASE	MAX/MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	250	190/0	0/0	0/0	0/0	60/0	0/0
C	80	73/0	0/0	0/0	0/0	17/0	0/0
D	12	0/0	0/0	0/0	0/0	12/0	0/0

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

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

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

LOADING
TOTAL LOAD CASES: (5)

CHORDS		FACTORED		WEBS	
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MAX. CSI (LC)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	LENGTH	FR-TO	
E-B	-342/0	0.0	0.01 (4)	7.81	
A-B	0/28	-91.8	-91.8	0.13 (5)	10.00
B-C	-19/0	-91.8	-91.8	0.22 (1)	6.25
E-D	0/0	-18.5	-18.5	0.02 (4)	10.00

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 4 X 10 = 38 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. GC

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

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

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

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

ALLOWABLE DEFL. (LL) = L/360 (0.10")
CALCULATED VERT. DEFL. (LL) = L/999 (0.00")
ALLOWABLE DEFL. (TL) = L/360 (0.10")
CALCULATED VERT. DEFL. (TL) = L/999 (0.00")

CSI: TC=0.22/1.00 (B-C:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (vs:0), SS=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 1667 788 1887 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

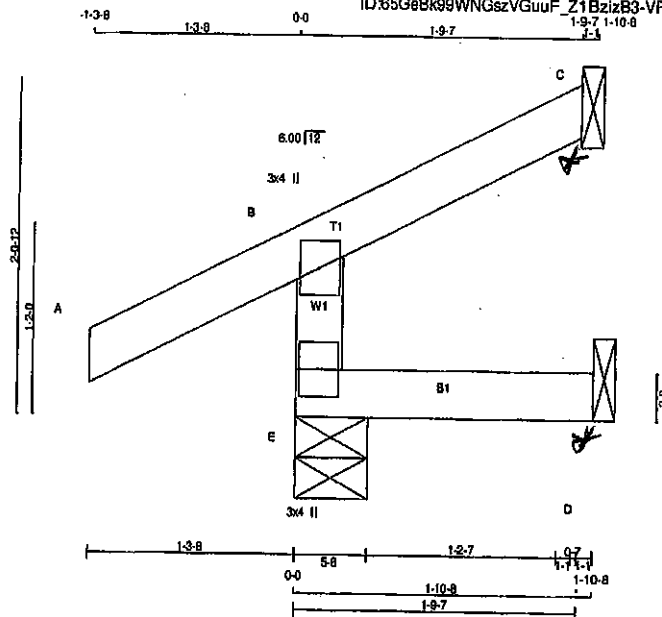
JSI GRIP = 0.14 (E) (INPUT = 0.90)
JSI METAL = 0.09 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007945

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408314	C63	4	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:13.1

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.

DESCR.
SPF
SPF
SPF

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 UPLIFT		
E	271	0	271	0	5-8	5-8
C	45	0	45	0	1-8	1-8
D	8	0	17	0	1-8	1-8

SEE MITEK STANDARD DETAIL B97781H FOR CONNECTION TO JOINT(S) C, D

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

UNFACTORED REACTIONS

JT	1ST LOASE		MAX/MIN. COMPONENT REACTIONS		PERM LIVE WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM LIVE			
E	188	141/0	0/0	0/0	0/0	47/0	0/0
C	31	24/-18	0/0	0/0	0/0	7/6	0/0
D	7	0/-8	0/0	0/0	0/0	12/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS		FACTORED		WEBS		MAX FACTORED FORCE (LBS)	MAX CSI (LC)
	MAX. FACTORED FORCE (LBS)	VERT. LOAD LC1	MAX. FACTORED (PLF)	CSI (LC)	MEMB. LENGTH FR-TO	MAX. FACTORED FORCE (LBS)		
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)	8.25			
E-D	0/0	-18.5	-18.5	0.04 (5)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. 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, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.04/1.00 (D-E:5), WB=0.00/1.00 (n/a:0), SS=0.08/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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
(P.S.I) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1887 788 1887 1656

PLATE PLACEMENT TOL = 0.250 inches

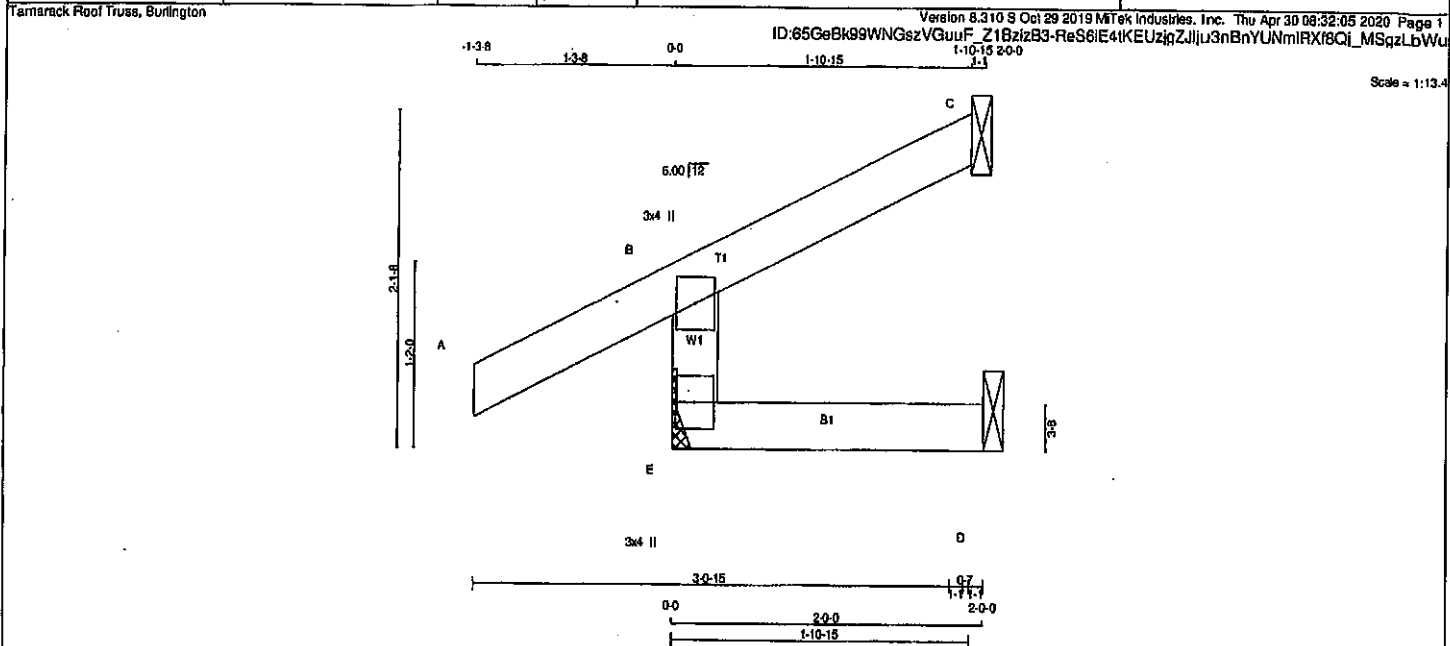
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.10 (E) (INPUT = 0.90)
JSI METAL = 0.07 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007946

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408314	C64	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			



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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	HORZ	BRG	BRG	IN-SX	IN-SX
E	254	0	254	0	0	MECHANICAL			
C	66	0	66	0	0	1-8	1-8		
D	16	0	16	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) C, D

UNFACTORED REACTIONS		1ST CASE		MAX/MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
E	177	130/0	0/0	0/0	0/0
C	46	37/0	0/0	0/0	0/0
D	13	0/0	0/0	0/0	0/0

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

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

LOADING
TOTAL LOAD CASES: (5)

CHORDS		FACTORED		WEBS	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)
FR-TO				FR-TO	
E-B	-234/0	0.0	0.0 (4)	7.81	
A-B	0/28	-91.8	-91.8 (1)	10.00	
B-C	-10/0	-91.8	-91.8 (1)	10.00	
E-D	0/0	-18.5	-18.5 (4)	10.00	

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 7 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

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

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

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

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

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.02/1.00 (D-E:4),
WB=0.00/1.00 (W:0), SS=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.10 (E) (INPUT = 0.90)
JSI METAL = 0.08 (B) (INPUT = 1.00)

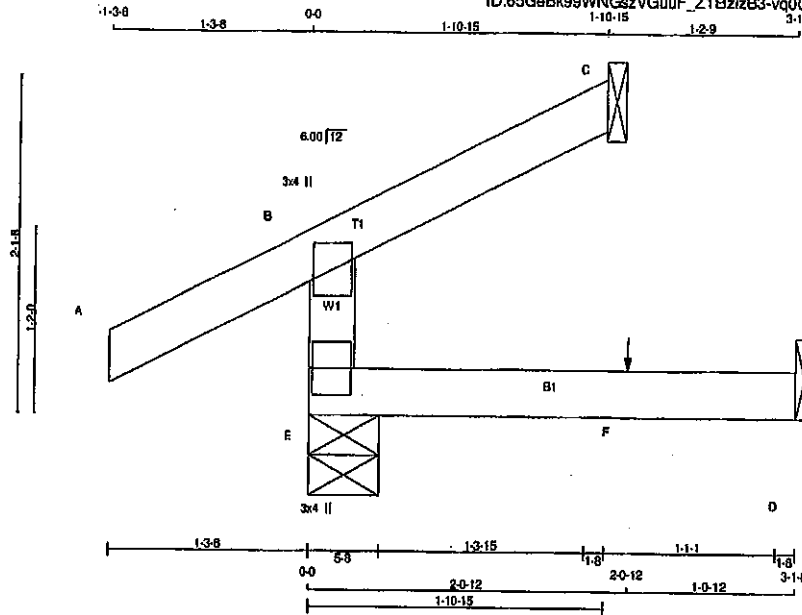


Structural component only
DWG# T-2007947

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408314	C65	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:13.4

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.

DESCR.
SPF
SPF
SPF

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

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
JT	288	0	288	0	5-8	5-8
E	68	0	68	0	1-8	1-8
C	25	0	25	0	1-8	1-8

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

UNFACTORED REACTIONS

1ST CASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	187	130/0	0/0	0/0	0/0	57/0	0/0
C	46	37/0	0/0	0/0	0/0	9/0	0/0
D	20	0/0	0/0	0/0	0/0	20/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (6)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (LBS)	MAX. FORCE (LBS)	VERT. LOAD (LBS)	MAX. FORCE (LBS)	VERT. LOAD (LBS)	MAX. FORCE (LBS)	VERT. LOAD (LBS)
FR-TO								
E-B	-234/0	0.0	0.0	0.03 (4)	7.81			
A-B	0/28	-91.8	-91.8	0.13 (5)	10.00			
B-C	-10/0	-91.8	-91.8	0.06 (1)	10.00			
E-F	0/0	-18.5	-18.5	0.04 (4)	10.00			
F-D	0/0	-18.5	-18.5	0.04 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	2-0-12	1	1	1	BACK	VERT	TOTAL	-	C1

CONNECTION REQUIREMENTS

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 9 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, NBCG 2010, NBCG 2015

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

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

(58% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.13/1.00 (A-B-5), BC=0.04/1.00 (D-E-4), WB=0.00/1.00 (A-B-5), SSI=0.10/1.00 (A-B-5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN
MT20	818 354	1687 788

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.10 (E) (INPUT = 0.90)
JSI METAL= 0.06 (E) (INPUT = 1.00)

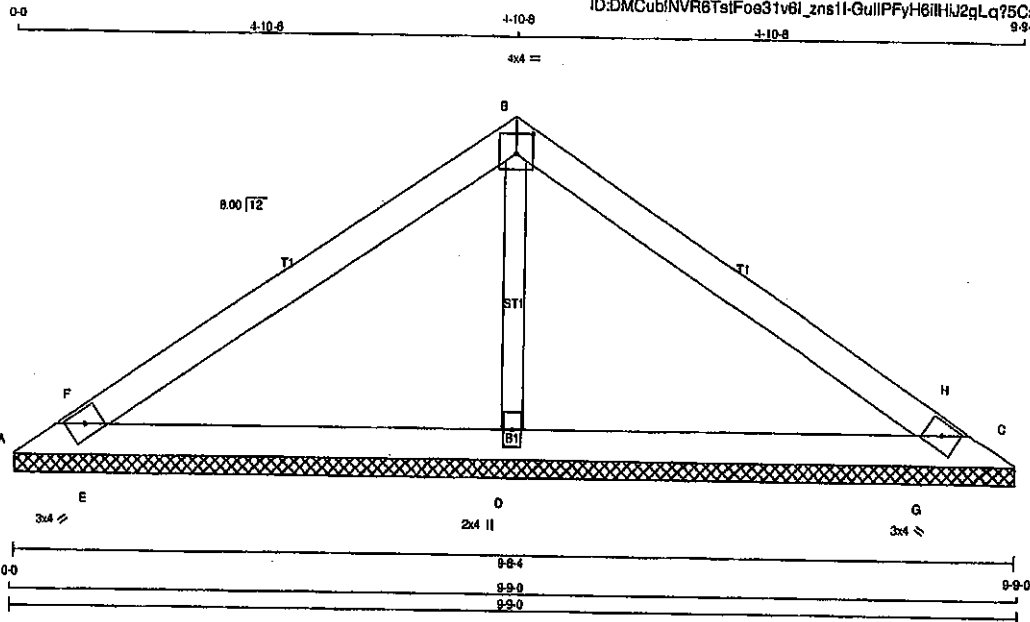


Structural component only
DWG# T-2007948

JOB NAME 408312	TRUSS NAME V1	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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Scale = 1:20.1

LUMBER	CHORDS	SIZE	DRY	LUMBER	DESCR.
N. L. G. A. RULES	A - B	2x4	DRY	No.2	SPF
	B - C	2x4	DRY	No.2	SPF
	A - 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 - B	MT20	3.0	4.0			
B - C	MT20	4.0	4.0	2.25	2.00	
C - B	MT20	3.0	4.0			
D - B	MT20	2.0	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		
A	34	0	34	0	9-8-4	9-8-4
C	34	0	34	0	9-8-4	9-8-4
D	1000	0	1000	0	9-8-4	9-8-4

UNFACTORED REACTIONS

JT	1ST LCASE		MAX. MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
A	24	15/0	0/0	0/0	0/0	9/0	0/0
C	24	15/0	0/0	0/0	0/0	9/0	0/0
D	707	468/0	0/0	0/0	0/0	241/0	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 (LBS)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
A-F	0/412	-91.8	-91.8 0.16 (1)	10.00	D-B	-793 / 0	0.15 (1)
F-B	0/401	-91.8	-91.8 0.28 (1)	10.00	E-F	-254 / 0	0.00 (1)
B-H	0/401	-91.8	-91.8 0.28 (1)	10.00	G-H	-254 / 0	0.00 (1)
H-C	0/412	-91.8	-91.8 0.16 (1)	10.00			
A-E	-377 / 0	-18.5	-18.5 0.19 (1)	6.25			
E-D	-341 / 0	-18.5	-18.5 0.19 (1)	6.25			
D-G	-341 / 0	-18.5	-18.5 0.19 (1)	6.25			
G-C	-377 / 0	-18.5	-18.5 0.19 (1)	6.25			

DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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

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

CS: TC=0.28/1.00 (B-H:1), BC=0.19/1.00 (D-G:1), WB=0.15/1.00 (B-D:1), SS=0.14/1.00 (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 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

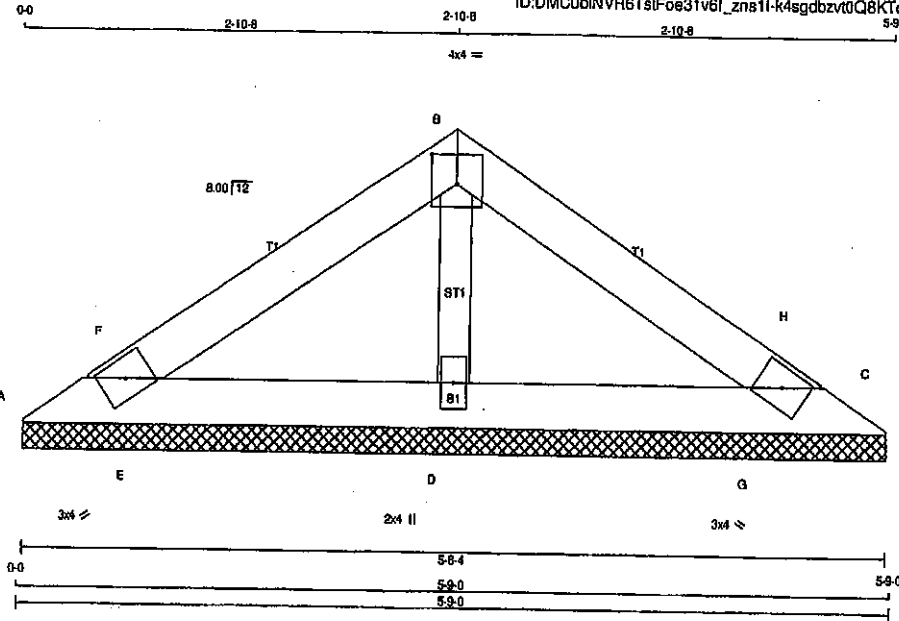
JSI GRIP = 0.67 (B) (INPUT = 0.90)
JSI METAL = 0.23 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007902

JOB NAME 408312	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:DMCubINVR6TslFos31v6l_zns11-k4sgdbzv0Q8KTdvYWKI4K2UqyxPonmWLAk4czLpg6



Scale = 1:13.6

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - B	2x4	DRY	No.2	SPF
B - C	2x4	DRY	No.2	SPF
A - C	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
A	TBM1-h	MT20	3.0	4.0	
B	TTW-p	MT20	4.0	4.0	2.25 2.00
C	TBM1-h	MT20	3.0	4.0	
D	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	GROSS REACTION	GROSS REACTION	DOWN	BRG	IN-SX
A	80	0	80	0	5-8-4
C	80	0	80	0	5-8-4
D	487	0	487	0	5-8-4

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
A	57	38/0	0/0	0/0	0/0	19/0	0/0	0/0
C	57	38/0	0/0	0/0	0/0	19/0	0/0	0/0
D	330	215/0	0/0	0/0	0/0	115/0	0/0	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 = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED	FACTORED	MAX	MAX.	WEBS		MAX. FACTORED	FACTORED	MAX
MEMB.	FORCE	VERT. LOAD	LO1	CS1 (LC)	UNBRAC	MEMB.	FORCE	VERT. LOAD	LO1	CS1 (LC)
FR-TO					LENGTH	FR-TO				
A-F	0/114	-91.8	-91.8	0.03 (1)	10.00	D-B	-322/0	0.05 (1)		
F-B	0/122	-91.8	-91.8	0.08 (1)	10.00	E-F	-115/0	0.00 (1)		
B-H	0/122	-91.8	-91.8	0.08 (1)	10.00	G-H	-115/0	0.00 (1)		
H-C	0/114	-91.8	-91.8	0.03 (1)	10.00					
A-E	-118/0	-18.5	-18.5	0.08 (1)	6.25					
E-D	-102/0	-18.5	-18.5	0.08 (1)	6.25					
D-G	-102/0	-18.5	-18.5	0.08 (1)	6.25					
G-C	-118/0	-18.5	-18.5	0.08 (1)	6.25					

TOTAL WEIGHT = 14 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, A80 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

CS1: TO=0.08/1.00 (B-H:1), BC=0.08/1.00 (D-E:1),
WB=0.05/1.00 (B-D:1), SS1=0.08/1.00 (B-H: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) (PLI)
MAX MN MAX MIN MAX MIN
MT20 818 354 1697 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

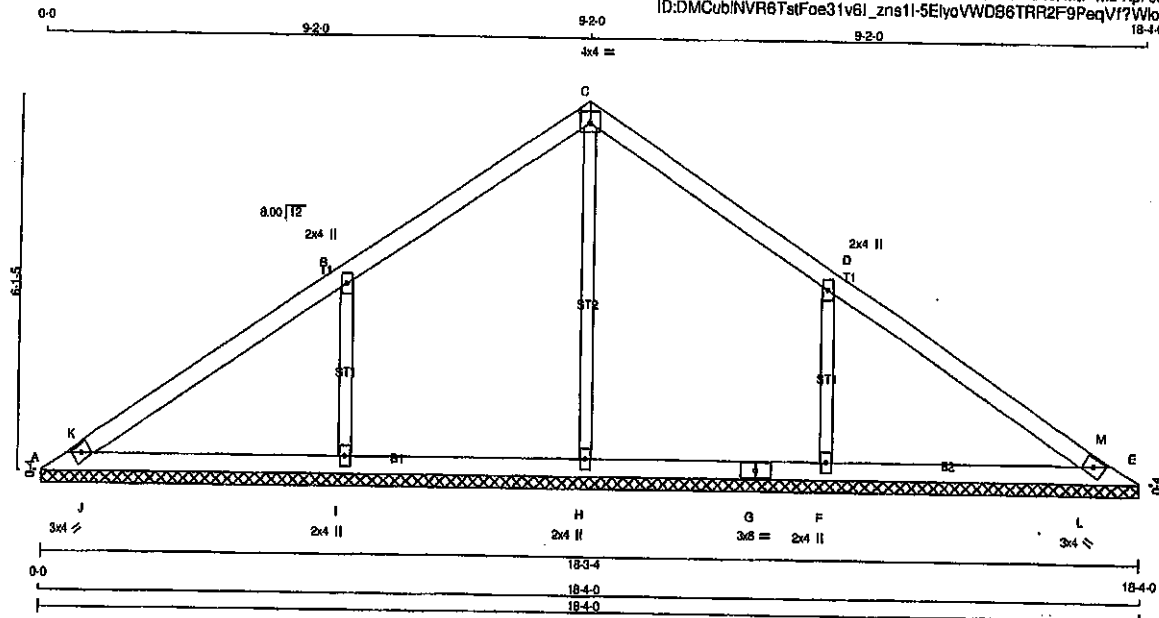
JSI GRIP= 0.27 (B) (INPUT = 0.80)
JSI METAL= 0.09 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007903

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408313	V30	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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 ID:DMCub\NVR8TstFoe31v6l_2ns11-5ElyoVWD86TRR2F9PeqVf7VWkx_pv7susitTKCzLbr_18-4-0



Scale = 1/32"

TOTAL WEIGHT = 54 lb

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
A - G	2x4	DRY	No.2
G - 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	TW1-w	MT20	2.0	4.0	
C	TW1-w	MT20	4.0	4.0	2.25 2.00
D	TW1-w	MT20	2.0	4.0	
E	TBM1-h	MT20	3.0	4.0	
F, H, I					
F	BMW1-w	MT20	2.0	4.0	
G	BS4	MT20	3.0	6.0	

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

BEARINGS							
JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG	IN-SX	IN-SX	
A	131	0	131	0	0	18-3-4 (6-3-8) 18-3-4	
E	131	0	131	0	0	18-3-4 (6-3-8) 18-3-4	
H	527	0	527	0	0	18-3-4 (6-3-8) 18-3-4	
I	613	0	613	0	0	18-3-4 (6-3-8) 18-3-4	
F	613	0	613	0	0	18-3-4 (6-3-8) 18-3-4	

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS							
JT	1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
A	92	63 / 0	0 / 0	0 / 0	0 / 0	28 / 0	0 / 0
E	92	63 / 0	0 / 0	0 / 0	0 / 0	28 / 0	0 / 0
H	375	232 / 0	0 / 0	0 / 0	0 / 0	142 / 0	0 / 0
I	433	288 / 0	0 / 0	0 / 0	0 / 0	145 / 0	0 / 0
F	433	288 / 0	0 / 0	0 / 0	0 / 0	145 / 0	0 / 0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 8.26 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. FACTORED UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)	
FR-TO				FR-TO			
A-K	0 / 168	-91.8 -91.8	0.05 (4)	10.00	H-C	-493 / 0	0.28 (1)
K-B	0 / 211	-91.8 -91.8	0.32 (1)	10.00	I-B	-475 / 0	0.10 (1)
B-C	0 / 170	-91.8 -91.8	0.31 (1)	10.00	F-D	-475 / 0	0.10 (1)
C-D	0 / 170	-91.8 -91.8	0.31 (1)	10.00	J-K	-151 / 6	0.00 (1)
D-M	0 / 211	-91.8 -91.8	0.32 (1)	10.00	L-M	-151 / 6	0.00 (1)
M-E	0 / 168	-91.8 -91.8	0.05 (4)	10.00			

A-J	-178 / 0	-18.5 -18.5	0.14 (1)	6.25
J-I	-153 / 0	-18.5 -18.5	0.14 (1)	6.25
I-H	-165 / 0	-18.5 -18.5	0.11 (1)	6.25
H-G	-165 / 0	-18.5 -18.5	0.11 (1)	6.25
G-F	-165 / 0	-18.5 -18.5	0.11 (1)	6.25
F-L	-153 / 0	-18.5 -18.5	0.14 (1)	6.25
L-E	-178 / 0	-18.5 -18.5	0.14 (1)	6.25

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

(5% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.32/1.00 (D-M:1), BC=0.14/1.00 (F-L:1), WB=0.28/1.00 (C-H:1), SI=0.18/1.00 (D-M:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.41 (C) (INPUT = 0.90)
 JSI METAL= 0.24 (B) (INPUT = 1.00)

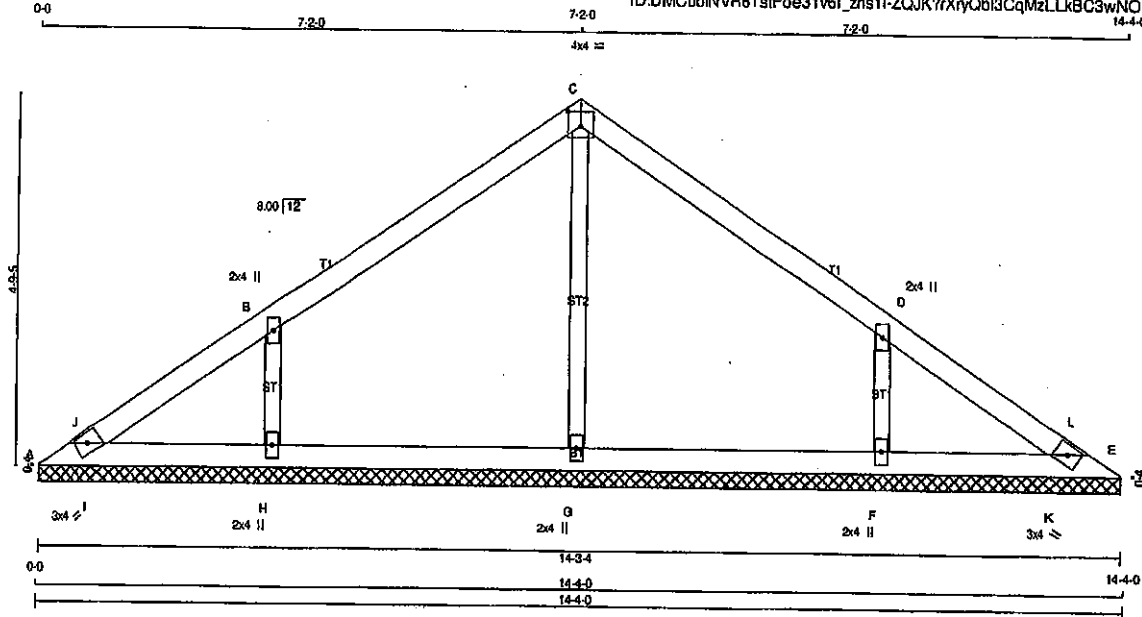


Structural component only
 DWG# T-2007939

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408313	V31	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:27.3

TOTAL WEIGHT = 41 lb

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TBM1-h	MT20	3.0	4.0	
B	TBW-w	MT20	2.0	4.0	
C	TTW-p	MT20	4.0	4.0	2.25 2.00
D	TBW-w	MT20	2.0	4.0	
E	TBM1-h	MT20	3.0	4.0	
F, G, H					
F	BMW1-w	MT20	2.0	4.0	

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

BEARINGS					
JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT
A	128	0	128	0	0
E	128	0	128	0	0
G	358	0	358	0	0
H	481	0	481	0	0
F	481	0	481	0	0

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
A	89	61/0	0/0	0/0	0/0	28/0	0/0
E	89	61/0	0/0	0/0	0/0	28/0	0/0
G	258	151/0	0/0	0/0	0/0	105/0	0/0
H	339	229/0	0/0	0/0	0/0	111/0	0/0
F	339	229/0	0/0	0/0	0/0	111/0	0/0

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 = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO		FR-TO		FROM TO	
A-J	-48/0	-91.8 -91.8 0.04 (1)	6.25	G-C	-287/0	-91.8 -91.8 0.04 (1)	6.25
J-B	0/12	-91.8 -91.8 0.21 (1)	10.00	H-B	-397/0	-91.8 -91.8 0.21 (1)	10.00
B-C	-32/3	-91.8 -91.8 0.21 (1)	6.25	F-D	-397/0	-91.8 -91.8 0.21 (1)	6.25
C-D	-32/3	-91.8 -91.8 0.21 (1)	6.25	I-J	-24/7	-91.8 -91.8 0.21 (1)	10.00
D-L	0/12	-91.8 -91.8 0.21 (1)	10.00	K-L	-24/7	-91.8 -91.8 0.21 (1)	10.00
L-E	-48/0	-91.8 -91.8 0.04 (1)	6.25				
A-I	-4/23	-18.5 -18.5 0.04 (1)	10.00				
I-H	-2/28	-18.5 -18.5 0.05 (4)	10.00				
H-G	-6/10	-18.5 -18.5 0.08 (4)	10.00				
G-F	-6/10	-18.5 -18.5 0.08 (4)	10.00				
F-K	-2/28	-18.5 -18.5 0.05 (4)	10.00				
K-E	-4/23	-18.5 -18.5 0.04 (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, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

CSI: TC=0.21/1.00 (D-L:1), BC=0.08/1.00 (G-H:4), WB=0.08/1.00 (C-G: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)
MT20	618	354	1687 788 1987 1856

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.27 (B) (INPUT = 0.90)
JSI METAL= 0.20 (B) (INPUT = 1.00)

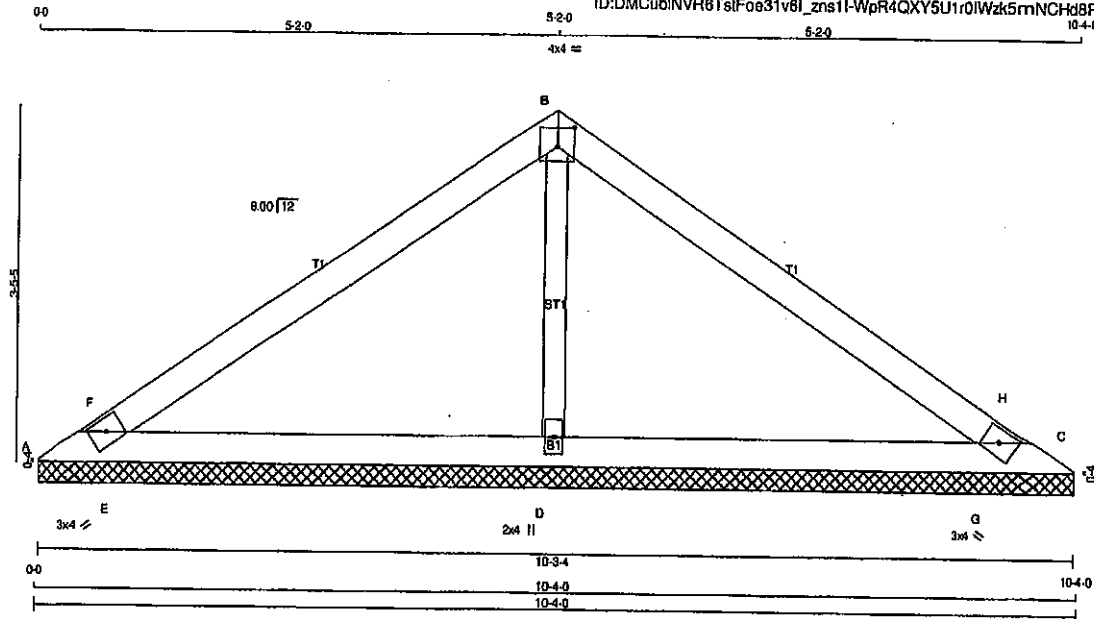


Structural component only
DWG# T-2007940

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408313	V32	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:20.6

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 is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TBM1-h	MT20	3.0	4.0	
B	TTW-p	MT20	4.0	4.0	2.25 2.00
C	TBM1-h	MT20	3.0	4.0	
D	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
A	20	0	20	0	0
C	20	0	20	0	0
D	1091	0	1091	0	0

UNFACTORED REACTIONS

1ST CASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
A	15	8/0	0/0	0/0	0/0	7/0	0/0
C	15	8/0	0/0	0/0	0/0	7/0	0/0
D	771	509/0	0/0	0/0	0/0	262/0	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 = 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.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRAC. LENGTH	FR-TO	MEMB.	FORCE (LBS)	MAX. CSI (LC)	MAX. UNBRAC. LENGTH
A-F	0/470	-91.8	-91.8 0.18 (1)	10.00	D-B	-876/0	0.17 (1)		
F-B	0/454	-91.8	-91.8 0.31 (1)	10.00	E-F	-279/0	0.00 (1)		
B-H	0/454	-91.8	-91.8 0.31 (1)	10.00	G-H	-279/0	0.00 (1)		
H-C	0/470	-91.8	-91.8 0.18 (1)	10.00					
A-E	-428/0	-18.5	-18.5 0.21 (1)	8.25					
E-D	-388/0	-18.5	-18.5 0.21 (1)	8.25					
D-G	-388/0	-18.5	-18.5 0.21 (1)	8.25					
G-C	-428/0	-18.5	-18.5 0.21 (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

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 2018
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-08, CSA 088-14
- TPIC 2011, TPIC 2014

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

CSI: TC=0.31/1.00 (B-H:1), BC=0.21/1.00 (D-G:1), WB=0.17/1.00 (B-D:1), SS=0.15/1.00 (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 1687 788 1987 1656

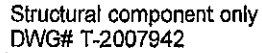
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.74 (B) (INPUT = 0.90)
JSI METAL= 0.25 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007941

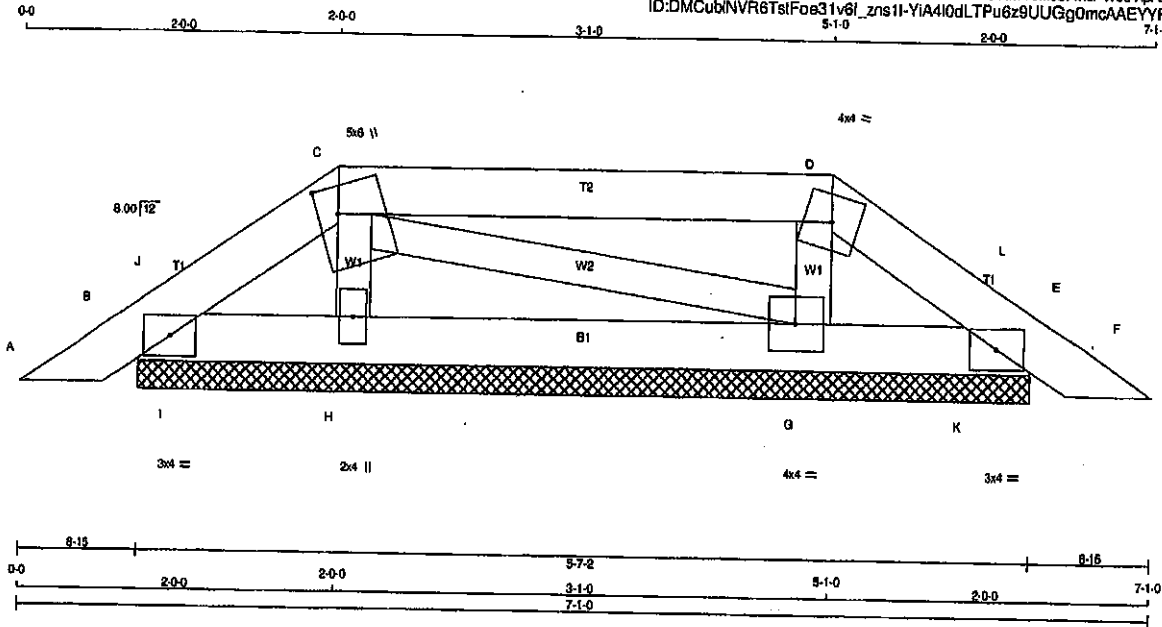


JOB NAME 408312	TRUSS NAME PB2	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Wed Apr 29 16:26:03 2020 Page 1
ID:DMCubINVR6TsIFoa31v6I_zns11-ViA410dLTPu6z9UUGG0mcAAEYYP8r8C64_OG5EzLpgY

Scale = 1:13.0



LUMBER

N. L. G. A. RULES

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

PLATES (tablets in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMS1-4	MT20	3.0	4.0	
C	TTWV+m	MT20	5.0	6.0	2.00 1.50
D	TTW-m	MT20	4.0	4.0	
E	TMS1-4	MT20	3.0	4.0	
G	BMWV1-4	MT20	4.0	4.0	
H	BMW1-w	MT20	2.0	4.0	

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
B	149	0	149	0	5-7-2	5-7-2
E	144	0	144	0	5-7-2	5-7-2
H	218	0	218	0	5-7-2	5-7-2
G	228	0	228	0	5-7-2	5-7-2

UNFACTORED REACTIONS

JT	1ST LOOSE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM/LIVE	WIND	DEAD	SOIL
B	103	81/0	0/0	0/0	0/0	22/0	0/0
E	100	78/0	0/0	0/0	0/0	22/0	0/0
H	155	95/0	0/0	0/0	0/0	50/0	0/0
G	182	101/0	0/0	0/0	0/0	51/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 15	-91.8 -91.8 0.03 (1)	10.00	H-C	-158 / 0	0.02 (1)	
B-J	-45 / 0	-91.8 -91.8 0.00 (4)	6.25	C-G	-9 / 0	0.00 (1)	
J-C	-44 / 0	-91.8 -91.8 0.01 (1)	6.25	G-D	-165 / 0	0.02 (1)	
C-D	-10 / 0	-91.8 -91.8 0.15 (1)	6.25	I-J	-55 / 0	0.00 (1)	
D-L	-38 / 0	-91.8 -91.8 0.01 (1)	6.25	K-L	-56 / 0	0.00 (1)	
L-E	-37 / 0	-91.8 -91.8 0.00 (4)	6.25				
E-F	0 / 15	-91.8 -91.8 0.03 (1)	10.00				
B-I	0 / 36	-18.5 -18.5 0.02 (1)	10.00				
I-H	0 / 36	-18.5 -18.5 0.03 (4)	10.00				
H-G	0 / 18	-18.5 -18.5 0.03 (4)	10.00				
G-K	0 / 29	-18.5 -18.5 0.03 (4)	10.00				
K-E	0 / 29	-18.5 -18.5 0.02 (1)	10.00				

TOTAL WEIGHT = 19 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./C

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

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

THIS DESIGN COMPLIES WITH:

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

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

CSI: TC=0.15/1.00 (C-D:1), BC=0.03/1.00 (H-I:4), WB=0.02/1.00 (D-G:1), SS=0.11/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	
MT20	618 354	1667 788	1937 1656

PLATE PLACEMENT TOL = 0.250 inches

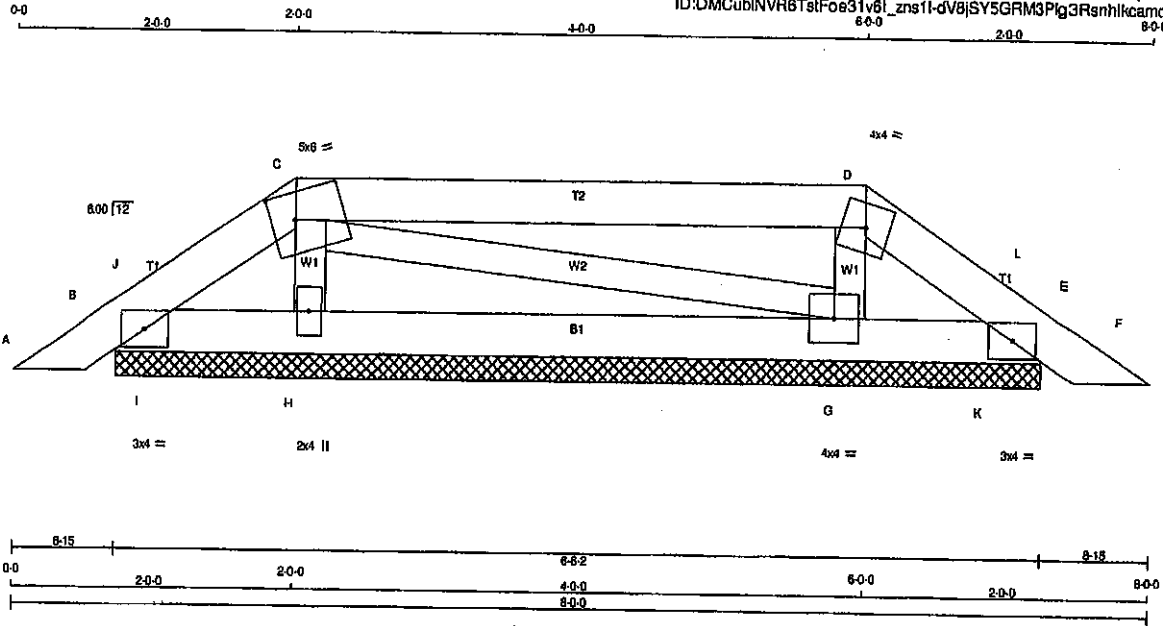
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.12 (B) (INPUT = 0.90)
JSI METAL = 0.03 (H) (INPUT = 1.00)



Structural component only
DWG# T-2007882

JOB NAME 408313	TRUSS NAME PB30	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 6.310 S Oct 29 2019 MiTek Industries, Inc. Thu Apr 30 08:10:04 2020 Page 1 ID:DMCubINVR6TstFos31v6l_zns11-dv8jSY5GRM3Plg3RsnhikcamqlvCQ58IIVybkzLbrX			



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

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

PLATES (tablets in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TM81-1	MT20	3.0	4.0
C	TTWW-m	MT20	5.0	8.0 2.25 2.00
D	TTWW-m	MT20	4.0	4.0
E	TM81-1	MT20	3.0	4.0
G	BMWW1-1	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

FACTORED		MAXIMUM FACTORED		INPUT		REQD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
B	146	0	146	0	0	6-6-2	6-6-2
E	142	0	142	0	0	6-6-2	6-6-2
H	273	0	273	0	0	6-6-2	6-6-2
G	280	0	280	0	0	6-6-2	6-6-2

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE					
B	100	82/0	0/0	0/0	0/0	18/0	0/0	0/0	0/0
E	97	80/0	0/0	0/0	0/0	17/0	0/0	0/0	0/0
H	195	117/0	0/0	0/0	0/0	77/0	0/0	0/0	0/0
G	199	121/0	0/0	0/0	0/0	78/0	0/0	0/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, E, H, G

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	CS1 (LC)	MAX. UNBRACED LENGTH	MEMB.	FORCE (LBS)	MAX. CS1 (LC)
A-B	0/15	-91.8	-91.8	0.03 (1)	H-C	-197/0	0.03 (1)
B-J	-44/0	-91.8	-91.8	0.01 (4)	C-G	-6/0	0.00 (7)
J-C	-50/0	-91.8	-91.8	0.01 (1)	G-D	-202/0	0.03 (1)
C-D	-11/0	-91.8	-91.8	0.25 (1)	I-J	-66/0	0.00 (1)
D-L	-43/0	-91.8	-91.8	0.01 (1)	K-L	-67/0	0.00 (1)
L-E	-38/0	-91.8	-91.8	0.01 (4)			
E-F	0/15	-91.8	-91.8	0.03 (1)			
B-I	0/40	-18.5	-18.5	0.03 (1)			
I-H	0/40	-18.5	-18.5	0.05 (4)			
H-G	0/17	-18.5	-18.5	0.05 (4)			
G-K	0/34	-18.5	-18.5	0.05 (4)			
K-E	0/34	-18.5	-18.5	0.02 (1)			

TOTAL WEIGHT = 21 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.25/1.00 (C-D:1), BC=0.05/1.00 (H-I:4), WB=0.03/1.00 (D-G:1), SI=0.14/1.00 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN 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 (D) (INPUT = 0.80)
JSI METAL= 0.04 (C) (INPUT = 1.00)

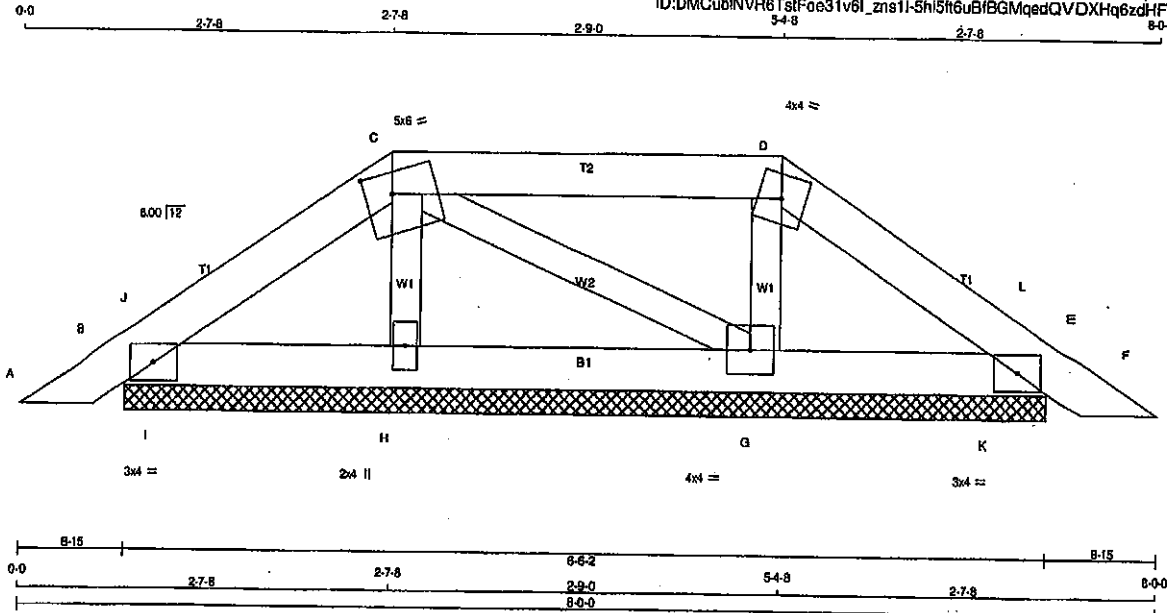


Structural component only
DWG# T-2007914

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	BRWG NO.
408313	PB31	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TstFoe31v6l_zns1l-5h5t6uBfBGMgedQVdXHq6zdHFV9YVstMEV7AzLbrVW
5-4-8 2-7-8 8-0-0
Scale = 1:14.6



LUMBER				
N. L. G. A. RULES	SIZE	LUMBER	DESCR.	SPF
CHORDS				
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	TMB1-1	MT20	3.0	4.0	
C	TTWW-m	MT20	5.0	8.0	1.75 2.25
D	TTWW-m	MT20	4.0	4.0	
E	TMB1-1	MT20	3.0	4.0	
G	BMWW1-1	MT20	4.0	4.0	
H	BMWW1-w	MT20	2.0	4.0	

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
B	193	0	193	0	6-6-2	6-6-2
E	193	0	193	0	6-6-2	6-6-2
H	219	0	219	0	6-6-2	6-6-2
G	244	0	244	0	6-6-2	6-6-2

UNFACTORED REACTIONS

JT	1ST CASE COMBINED		MAX./MIN. COMPONENT REACTIONS				
	SNOW	LIVE	PERM.	LIVE	WIND	DEAD	SOIL
B	135	100/0	0/0	0/0	0/0	35/0	0/0
E	128	94/0	0/0	0/0	0/0	34/0	0/0
H	158	98/0	0/0	0/0	0/0	59/0	0/0
G	178	111/0	0/0	0/0	0/0	63/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, E, H, G

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS			WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO	CS1 (LC)	FR-TO	
A-B	0/15	-91.8	-91.8 0.03 (1)	H-C	-157/0
B-J	-58/0	-91.8	-91.8 0.00 (1)	C-G	-17/0
J-C	-60/0	-91.8	-91.8 0.04 (1)	G-D	-174/0
C-D	-21/0	-91.8	-91.8 0.12 (1)	I-J	-89/0
D-L	-43/0	-91.8	-91.8 0.04 (1)	K-L	-91/0
L-E	-40/0	-91.8	-91.8 0.00 (1)		
E-F	0/15	-91.8	-91.8 0.03 (1)		
B-I	0/49	-18.5	-18.5 0.04 (1)		
I-H	0/49	-18.5	-18.5 0.04 (1)		
H-G	0/37	-18.5	-18.5 0.03 (4)		
G-K	0/35	-18.5	-18.5 0.04 (1)		
K-E	0/35	-18.5	-18.5 0.04 (1)		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 25.8 PSF
DL	= 8.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN. 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, NBCO 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCO 2010, NBC 2012, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

CS1: TO=0.12/1.00 (C-D:1), 8C=0.04/1.00 (B-I:1), W8=0.02/1.00 (D-G:1), SS1=0.10/1.00 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE GRIP (DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
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 (B) (INPUT = 0.90)
JSI METAL= 0.03 (B) (INPUT = 1.00)



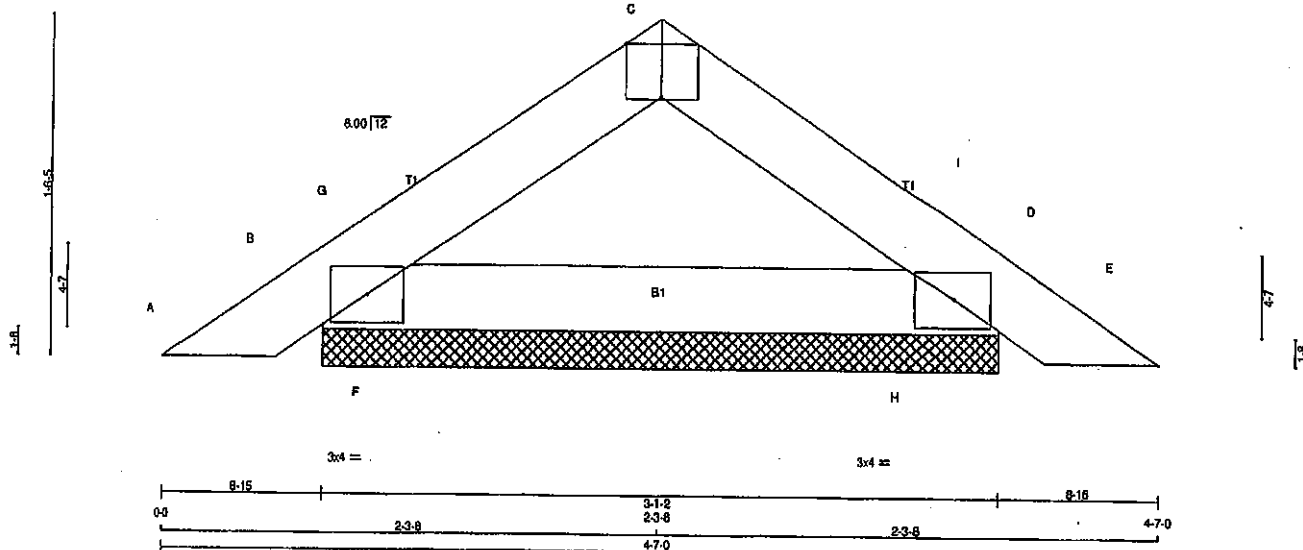
Structural component only
DWG# T-2007915

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408313	PB32	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TsiFoe31vB1_zns11-14ps4Z78JHR_g7o0XwF7MFCKO4wzdRN8LgicC3zLbrU
4-7-0

Scale = 1:9.5



LUMBER				
N. L. G. A. RULES	SIZE	LUMBER	DESCR.	
CHORDS			SPF	
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
B - D	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-I	MT20	3.0	4.0	
C	TT-p	MT20	3.0	4.0	Edge 2.00
D	TMB1-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		MAXIMUM FACTORED		INPUT		RECORD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
B	231	0	231	0	0	3-1-2	3-1-2		
D	231	0	231	0	0	3-1-2	3-1-2		

UNFACTORED REACTIONS

1ST LCASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	163	113.70	0.0	0.0	0.0	49.0	0.0
D	163	113.70	0.0	0.0	0.0	49.0	0.0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, D

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC1)
FR-TO		FROM TO		UNBRACED LENGTH	FR-TO		
A-B	0/15	-91.8 -91.8	0.03 (1)	10.00	F-G	0/41	0.00 (1)
B-G	-169/0	-91.8 -91.8	0.03 (4)	6.25	H-I	0/41	0.00 (1)
G-C	-119/0	-91.8 -91.8	0.04 (1)	6.25			
C-I	-119/0	-91.8 -91.8	0.04 (1)	6.25			
I-D	-169/0	-91.8 -91.8	0.03 (4)	6.25			
D-E	0/15	-91.8 -91.8	0.03 (1)	10.00			
B-F	0/105	-18.5 -18.5	0.02 (1)	10.00			
F-H	0/105	-18.5 -18.5	0.04 (1)	10.00			
H-D	0/105	-18.5 -18.5	0.02 (1)	10.00			

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. 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 BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.04/1.00 (C-I), BC=0.04/1.00 (F-H), WB=0.00/1.00 (F-G), SSI=0.05/1.00 (C-G)

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.

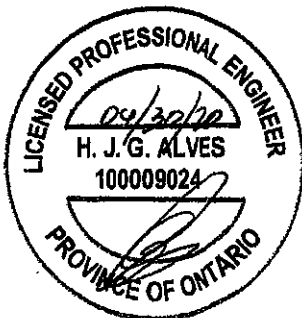
NAIL VALUES

PLATE	GRIP (DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MAX	MIN	MAX	MIN
MT20	618	354	1867 788 1937 1658

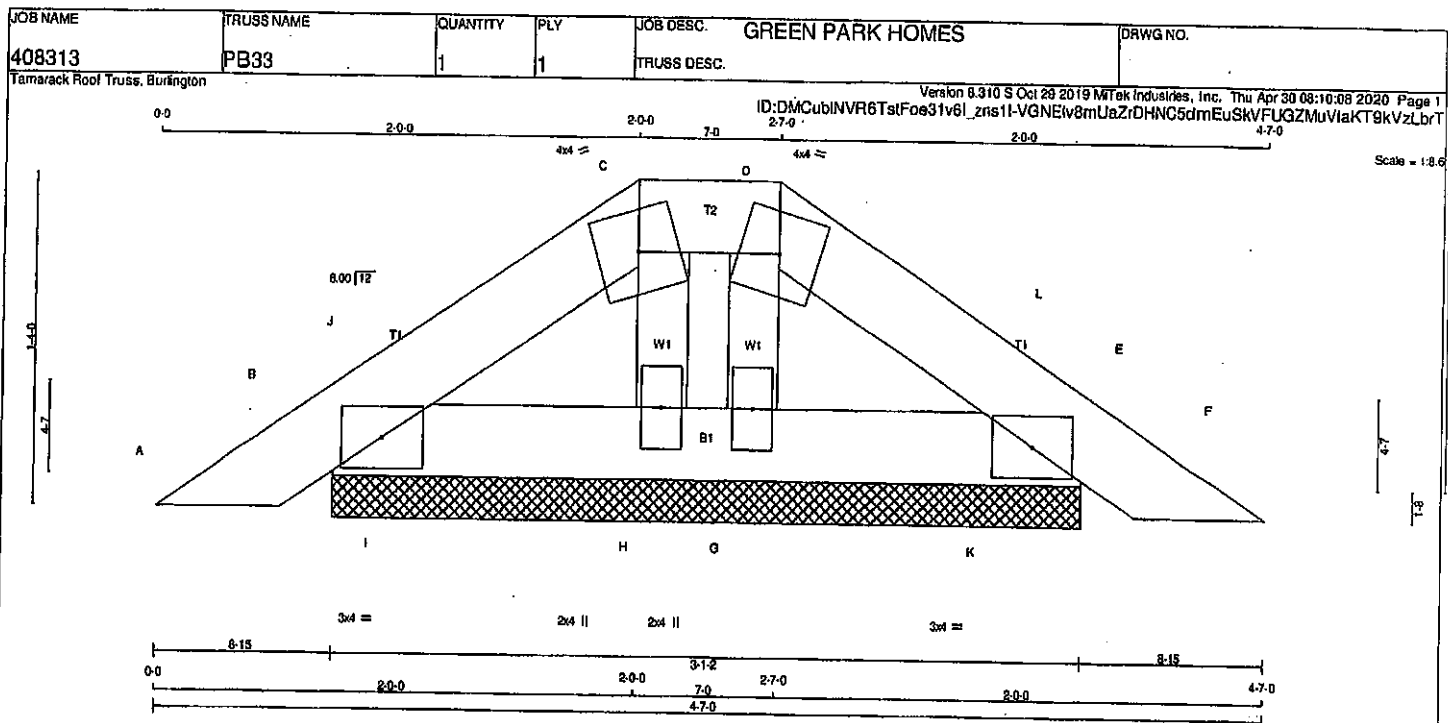
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.16 (D) (INPUT = 0.90)
JSI METAL = 0.05 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007916



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER
A - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
B - E	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2
DRY: SEASONED LUMBER.

DESCR.
SPF
SPF
SPF
SPF

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		
B	140	0	140	0	3-1-2	3-1-2
E	140	0	140	0	3-1-2	3-1-2
G	91	0	91	0	3-1-2	3-1-2
H	91	0	91	0	3-1-2	3-1-2

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	98	72/0	0/0	0/0	0/0	26/0	0/0
E	98	72/0	0/0	0/0	0/0	26/0	0/0
G	65	41/0	0/0	0/0	0/0	23/0	0/0
H	65	41/0	0/0	0/0	0/0	23/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, E, G, 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			
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	0/15	-91.8 -91.8 0.03 (1)	10.00	G-D	-59/0	0.01 (1)	
B-J	-29/0	-91.8 -91.8 0.00 (4)	6.25	H-C	-59/0	0.01 (1)	
J-C	-22/0	-91.8 -91.8 0.02 (1)	6.25	I-J	-47/0	0.00 (1)	
C-D	-13/0	-91.8 -91.8 0.01 (1)	6.25	K-L	-47/0	0.00 (1)	
D-L	-22/0	-91.8 -91.8 0.02 (1)	6.25				
L-E	-29/0	-91.8 -91.8 0.00 (4)	6.25				
E-F	0/15	-91.8 -91.8 0.03 (1)	10.00				
B-I	0/19	-18.5 -18.5 0.02 (1)	10.00				
I-H	0/19	-18.5 -18.5 0.02 (1)	10.00				
H-G	0/13	-18.5 -18.5 0.01 (1)	10.00				
G-K	0/19	-18.5 -18.5 0.02 (1)	10.00				
K-E	0/19	-18.5 -18.5 0.02 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
OL = 8.0 PSF
BOT CH. LL = 0.0 PSF
OL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. OC

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.03/1.00 (E-F:1), BC=0.02/1.00 (G-K:1), WB=0.01/1.00 (D-G:1), SSI=0.04/1.00 (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= 0.11 (B) (INPUT = 0.90)
JSI METAL= 0.02 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007917

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. 268–269.

Finish: Galvanized. Some products available in stainless steel or ZMAX® coating; see Corrosion Information, pp. 20–24.

Installation:

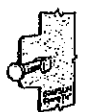
- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for 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.



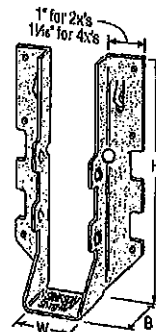
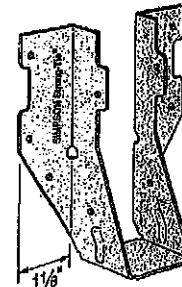
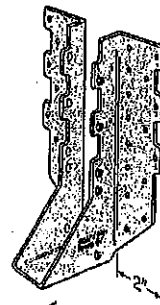
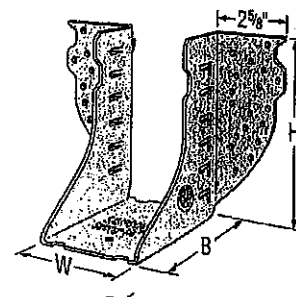
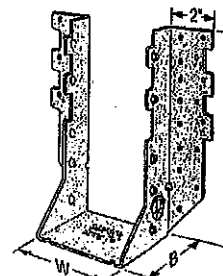
Double-Shear
Nailing
Top View



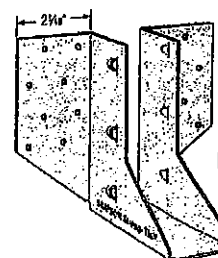
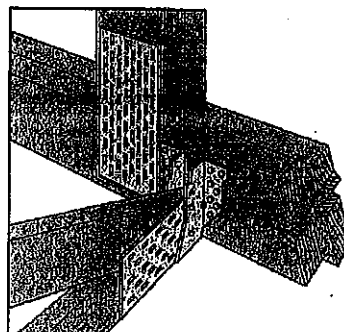
Double-Shear
Nailing
Side View;
Do not
bend tab



Double-Shear
Nailing Side View
(available on
some models)
U.S. Patent 5,603,680

**LUS28****LU26L****HUS210**
(HUS26, HUS28,
and HHUS similar)**HGUS28-2****HHUS210-2**

**Typical HUS26
Installation
with Reduced
Heel Height**
(Truss Designer
to provide
fastener quantity
for connecting
multiple members
together)

**LJS26DS**

Plated Truss Connectors

LUL/LUS/LJS/HUS/HHUS/HGUS**HHUS/HGUS**

See Hanger Options information on pp. 125–127.

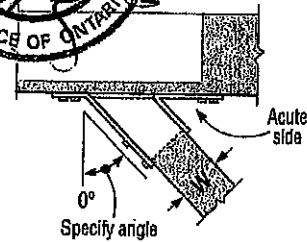
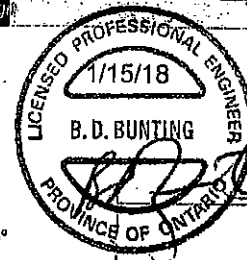
HHUS — Sloped and/or Skewed Seat

- HHUS hangers can be skewed to a maximum of 45° and/or sloped to a maximum of 45°
- For skew only, maximum factored down resistance is 0.85 of the table value
- For sloped only or sloped and skewed hangers, the maximum factored down resistance is 0.72 of the table value
- Uplift resistances for sloped/skewed conditions are 0.82 of the table value
- The joist must be bevel-cut to allow for double-shear nailing

HGUS — Skewed Seat

- HGUS hangers can be skewed only to a maximum of 45°. Factored resistances are:

HGUS Seat Width	Joist	Down Resistance	Uplift
$W < 2"$	Bevel or square cut	0.62 of table value	0.46 of table value
$2" < W < 6"$	Bevel cut	0.67 of table value	0.41 of table value
$2" < W < 6"$	Square cut	0.46 of table value	0.41 of table value
$W > 6"$	Bevel cut	0.75 of table value	0.41 of table value



Top View HHUS Hanger Skewed Right
(Joist must be bevel cut)
All joist nails installed on the outside angle (non-acute side).

Standard and Double-Shear Joist Hangers (cont.)

These products are available with additional corrosion protection. For more information, see p. 24.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32–34 for more information.

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance					
		W	H	B	d _g ¹	Header	Joist	D-Fir-L		S-P-F			
								Uplift	Normal	Uplift	Normal		
								(K _D = 1.15) lb. kN	(K _D = 1.00) lb. kN	(K _D = 1.15) lb. kN	(K _D = 1.00) lb. kN		
Single 2x Sizes													
■	LUS24	18	1 9/16	3 1/4	1 1/4	2 1/4	(4) 10d	(2) 10d	710 3.16	1625 7.23	845 2.87	1195 5.14	
	LU24L	22	1 9/16	3	1 1/4	2 1/4	(4) 10d	(2) 10d x 1 1/2"	360 1.60	1020 4.54	320 1.42	725 3.22	
	LU26L	22	1 9/16	5	1 1/4	4 1/4	(6) 10d	(4) 10d x 1 1/2"	720 3.20	1605 7.14	645 2.87	1140 5.07	
	SS	LUS26	18	1 9/16	4 1/4	1 1/4	3 1/4	(4) 10d	(4) 10d	1420 6.32	2170 9.85	1290 5.74	1630 7.25
HUS28		16	1 1/4	5 1/2	3	3 1/4	(14) 16d	(6) 16d	2705 11.80	4940 21.97	2065 9.20	3875 17.24	
■	LJS26DS	18	1 9/16	5	3 1/2	4 1/4	(16) 16d	(6) 16d	2055 9.14	4265 18.97	1460 6.49	4115 18.31	
	HGUS26	12	1 1/4	5 1/2	5	4 1/4	(20) 16d	(8) 16d	2685 11.96	6625 29.51	2685 11.96	5700 25.35	
	LU28L	20	1 9/16	6 1/4	1 1/4	5 1/4	(8) 10d	(6) 10d x 1 1/2"	1140 5.07	2185 9.72	1020 4.54	1550 6.89	
	SS	LUS28	18	1 9/16	6 1/4	1 1/4	3 3/4	(6) 10d	(4) 10d	1420 6.32	2520 11.21	1290 5.74	1790 7.96
HUS28		16	1 1/4	7 1/4	3	6 1/4	(22) 16d	(8) 16d	3805 16.04	5365 23.86	2675 11.90	4345 19.33	
■	HGUS28	12	1 1/4	7 1/4	5	6 1/4	(36) 16d	(12) 16d	3310 14.74	7675 34.19	3310 14.74	6900 30.73	
	LU210L	20	1 9/16	8	1 1/4	7 1/4	(10) 10d	(6) 10d x 1 1/2"	1140 5.07	2495 11.10	1020 4.54	1770 7.87	
	SS	LUS210	18	1 9/16	7 1/4	1 1/4	3 3/4	(8) 10d	(4) 10d	1420 6.32	2785 12.39	1290 5.74	2210 9.83

1. Factored uplift resistances have been increased 15% for wind or earthquake loading; no further increase is allowed.

2. Designer must ensure that hanger is compatible with truss when reduced heel height is used.

3. d_g is the distance from the bearing seat to the top joist nail.

4. Resistances shown require a minimum 2-ply girder truss. For fastening to single-ply truss request technical bulletin T-C-N10TRSSCN and/or see installation notes.

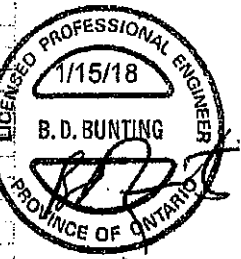
5. Nails: 16d = 0.162" dia. x 3 1/2" long. See pp. 27–28 for other nail sizes and information.

Face-Mount Hangers

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 _a ³	Header	Joist	D.Fir-L		S-P-F					
								Uplift	Normal	Uplift	Normal				
								(K ₀ = 1.15) lb.	(K ₀ = 1.00) lb.	(K ₀ = 1.15) lb.	(K ₀ = 1.00) lb.				
kN												kN	kN	kN	kN
Double 2x Sizes															
LUS24-2	18	3 1/8	3 1/8	2	1 1/2	(4) 16d	(2) 16d	835	2020	590	1435				
SS LUS26-2	18	3 1/8	4 1/8	2	4	(4) 16d	(4) 16d	3.71	8.99	2.82	6.38				
								1720	2595	1545	1920				
HHUS26-2	14	3 1/8	5 1/8	3	3 1/8	(14) 16d	(6) 16d	7.65	11.54	6.87	8.64				
								2850	7335	2065	5205				
HGUS26-2	12	3 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	12.68	32.83	9.20	23.15				
								4385	8950	3110	6355				
SS LUS28-2	18	3 1/8	7	2	4	(6) 16d	(4) 18d	19.51	39.81	13.83	28.27				
								1720	3325	1545	2575				
HHUS28-2	14	3 1/8	7 1/8	3	6 1/8	(22) 16d	(8) 18d	7.65	14.79	6.87	11.45				
								3765	8940	2675	6345				
HGUS28-2	12	3 1/8	7 1/8	4	8 1/8	(36) 16d	(12) 18d	16.76	39.77	11.90	28.22				
								6070	12980	4310	9215				
SS LUS210-2	18	3 1/8	9	2	6	(8) 16d	(8) 18d	27.00	57.74	19.17	40.99				
								2580	4500	2320	3195				
HHUS210-2	14	3 1/8	9 1/8	3	8	(30) 16d	(10) 16d	11.48	20.02	10.32	14.21				
								4670	9660	4235	7000				
HGUS210-2	12	3 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	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) 18d	19.51	39.81	13.83	28.27				
								6070	12980	4310	9215				
HHUS210-3	14	4 1/8	9	3	7 1/8	(30) 16d	(10) 16d	27.00	57.74	19.17	40.99				
								4670	9670	4235	6965				
HGUS210-3	12	4 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	20.77	43.02	18.84	30.54				
								6840	14645	4855	10400				
								30.43	65.14	21.60	46.26				
Quadruple 2x Sizes															
HGUS26-4	12	6 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355				
HGUS28-4	12	6 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	19.51	39.81	13.83	28.27				
								6070	12980	4310	9215				
HHUS210-4	14	6 1/8	8 1/8	3	7 1/8	(30) 16d	(10) 16d	27.00	57.74	19.17	40.99				
								4670	10155	4235	7210				
HGUS210-4	12	6 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	20.77	45.17	18.84	32.07				
								6840	14645	4855	10400				
HGUS212-4	12	6 1/8	10 1/8	4	10 1/8	(56) 16d	(20) 16d	30.43	65.14	21.60	46.26				
								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) 18d	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				
								2540	7335	2065	5205				
HGUS46	12	3 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	11.30	32.83	9.20	23.15				
								4385	8950	3110	6355				
LUS48	18	3 1/8	6 1/8	2	3 1/8	(6) 16d	(4) 16d	19.51	39.81	13.83	28.27				
								1720	3325	1545	2575				
HHUS48	14	3 1/8	7 1/8	3	6 1/8	(22) 16d	(8) 16d	7.65	14.79	6.87	11.45				
								3765	8940	2675	6345				
HGUS48	12	3 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	16.76	39.77	11.90	28.22				
								6070	12980	4310	9215				
LUS410	18	3 1/8	8 1/8	2	5 1/8	(8) 18d	(8) 18d	27.00	57.74	19.17	40.99				
								2580	4500	2320	3195				
HGUS410	12	3 1/8	9	4	8 1/8	(46) 16d	(16) 16d	11.48	20.02	10.32	14.21				
								4670	9660	4235	7000				
HGUS412	12	3 1/8	10 1/8	4	10 1/8	(56) 16d	(20) 16d	20.77	42.97	18.84	31.14				
								6840	14015	4855	10270				
HGUS414	12	3 1/8	12 1/8	4	11 1/8	(66) 16d	(22) 16d	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

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

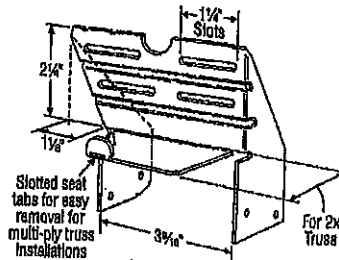
Design: Factored resistances are in accordance with CSA 086-14

Installation:

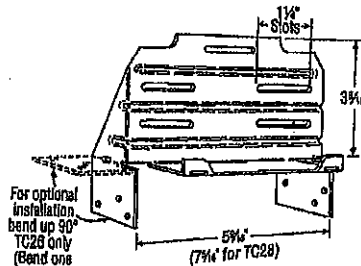
- Use all specified fasteners.
- Nails: 10d = 0.148" dia. x 3" long common wire, 10d x 1 1/2" = 0.148" dia. x 1 1/2" long.
- Drive 10d nails into the truss at the inside end of the slotted holes (inside end is towards the centre of the truss) and clinch on the back side. Do not seat these nails into the truss—allow room under the nail head for movement of the truss with respect to the wall.

Optional TC Installation:

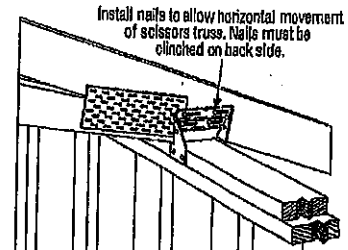
- Bend one flange up 90°. Drive specified nails into the top and face of the top plates or install Titen® screws into the top and face of masonry wall. See optional load tables and installation details.



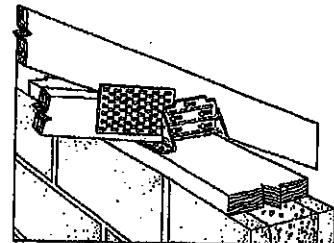
TC24
U.S. Patent 4,832,173



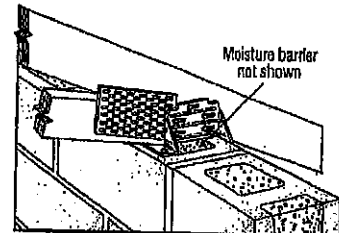
TC26
(TC28 Similar)



Typical TC24 Installation



Optional TC26 Installation for Grouted Concrete Block using a Wood Nailer (8", 10", 12" Wall Installation Similar)



Optional TC28 Installation for Grouted Concrete Block using Titen Screws

Model No.	Fasteners		Factored Resistance	
	Truss	Wall Plates	D.Fir-L	S-P-F
			Uplift (K _C =1.15)	Uplift (K _C =1.15)
TC24	(4) 10d	(4) 10d	605	430
TC26	(5) 10d	(5) 10d	1015	720
TC28	(5) 10d	(5) 10d	1015	720

Optional TC Installation Table

Model No.	Fasteners		Factored Resistance	
	Truss	Wall Plates	D.Fir-L	S-P-F
			Uplift (K _C =1.15)	Uplift (K _C =1.15)
TC26	(5) 10d	(5) 10d x 1 1/2"	810	680
	(5) 10d	(5) 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 (5) - 3/8" x 2 1/4" Titen screws has a factored uplift resistance of 275 lb.



(800) 999-5099
strongtie.com

H/TSP

Seismic and Hurricane Ties (cont.)

These products are available with additional corrosion protection. For more information, see p. 24.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32-34 for more information.

Model No.	Ga.	Fasteners			Factored Resistance (K _D = 1.15)					
					D-Fir-L			S-P-F		
		To Rafters/Truss	To Plates	To Studs	Uplift	Lateral		Uplift	Lateral	
						F ₁	F ₂		F ₁	F ₂
					lb.	lb.	lb.	lb.	lb.	lb.
					kN	kN	kN	kN	kN	kN
H1	18	(6) 8d x 1½"	(4) 8d	—	740	685	300	680	485	215
					3.29	3.05	1.33	3.02	2.16	0.96
SS H2A	18	(5) 8d x 1½"	(2) 8d x 1½"	(5) 8d x 1½"	830	220	75	590	155	55
					3.69	0.98	0.33	2.62	0.69	0.24
SS H2.5A	18	(5) 8d	(5) 8d	—	805	160	160	755	160	160
					3.58	0.71	0.71	3.36	0.71	0.71
H2.5T	18	(5) 8d	(5) 8d	—	835	175	210	740	160	210
					3.71	0.78	0.93	3.29	0.71	0.93
SS H3	18	(4) 8d	(4) 8d	—	740	180	265	615	125	190
					3.29	0.80	1.18	2.74	0.56	0.85
H6	16	—	(8) 8d	(8) 8d	1585	1085	—	1125	770	—
					7.05	4.83	—	5.00	3.43	—
H7Z	16	(4) 8d	(2) 8d	(8) 8d	1390	670	—	990	475	—
					6.18	2.98	—	4.40	2.11	—
SS H8 ³	18	(5) 10d x 1½"	(5) 10d x 1½"	—	1120	—	—	1025	—	—
					4.98	—	—	4.56	—	—
SS H10A ³	18	(9) 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	(9) 10d x 1½"	(9) 10d x 1½"	—	1485	890	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 ^{3a}	18	(8) 8d x 1½"	(8) 8d x 1½"	(8) 8d	1465	795	315	1040	565	225
					6.52	3.54	1.40	4.63	2.51	1.00
H11Z	18	(6) 16d x 2½"	(6) 16d x 2½"	—	1095	920	545	780	655	390
					4.87	4.09	2.42	3.47	2.91	1.73
H14	18	[1] (12) 8d x 1½"	(13) 8d	—	2390	855	320	1805	610	230
					10.63	3.80	1.42	8.03	2.71	1.02
		[2] (12) 8d x 1½"	(15) 8d	—	2390	855	320	1805	610	230
					10.63	3.80	1.42	8.03	2.71	1.02
TSP	16	(9) 10d x 1½"	(6) 10d x 1½"	—	1295	440	—	920	310	—
					5.76	1.96	—	4.09	1.38	—
		(9) 10d x 1½"	(6) 10d	—	1560	440	—	1105	310	—
					6.94	1.96	—	4.92	1.38	—

- Factored resistances have been increased 15% for short term loading; no further increase is allowed.
- Factored resistances are for one anchor. A minimum rafter thickness of 2½" must be used when framing anchors are installed on the same side of the plate (exception: H2.5A).
- H8 factored uplift resistances for stud-to-bottom plate installations are 595 lb. (2.65 kN) for D-Fir-L and 390 lb. (1.74 kN) for S-P-F.
- When cross-grain bending or cross-grain tension cannot be avoided, mechanical reinforcement to resist such forces should be considered.
- Hurricane ties are shown installed on the outside of the wall for clarity. Installation on the inside of the wall is acceptable. For a continuous load path, connections at the top and bottom of the wall must be on the same side of the wall (see technical bulletin T-HTECONPATH).
- Factored resistances in the F₁ direction are not intended to replace diaphragm boundary members or prevent cross grain bending of the truss or rafter members. Additional shear transfer elements shall be considered where there may be effects of cross grain bending or tension.

- H10S can have the stud offset a maximum of 1" from the rafter (centre to centre) for a reduced uplift of 1435 lb. (6.38 kN) D-Fir-L and 1015 lb. (4.51 kN) S-P-F.
- H10S nails to plates are optional for uplift but required for lateral loads.
- H10A may be field-bent up to a slope of 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.

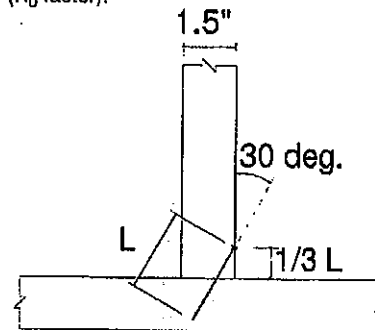
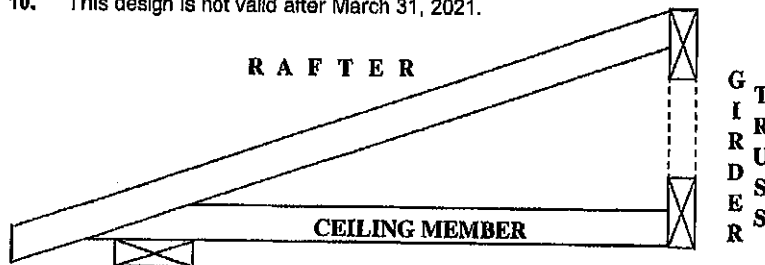
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B97791H1

NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL LATERAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	132	147
	3.25	0.144	132	147
	3.50	0.160	159	177
COMMON SPIRAL	3.00	0.122	97	108
	3.25	0.122	97	108
	3.50	0.152	145	162

NOTES:

1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
2. Toe nail capacities shown in the table are for one toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.4.1.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in tables below.
5. Nail values in table are based on the following relative lumber densities: $G = 0.42$ (SPF), $G = 0.49$ (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See next page for nailing on bearing plate).
7. For loads due to wind the nail lateral capacity in this table may be multiplied by 1.15 (K_D factor).
8. Lumber must be dry (< 19% moisture content) at the time of nail installation.
9. Nail values in this table comply with CSA O86-14, section 12.9.4
10. This design is not valid after March 31, 2021.



TOE-NAIL INSTALLATION

Nail type	Common wire	Common spiral	Common wire	Common spiral
Nail dia. (in)	0.160	0.152	0.144	0.122
	(3.5" nail)		(3" and 3.25" nail)	
LUMBER SIZE	MAXIMUM NUMBER OF TOE-NAILS			
2X4 SPF	2	2	3	3
2X4 D. Fir	2	2	2	2
2X6 SPF	4	4	4	5
2X6 D. Fir	3	3	3	4

MiTek® MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7

December 2, 2019



BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

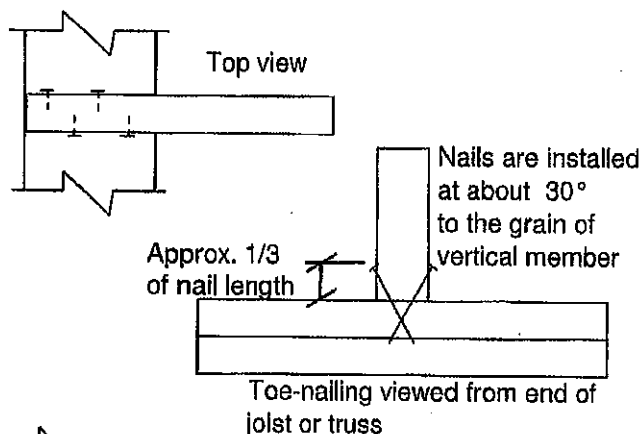
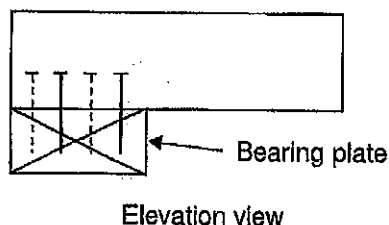
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52
COMMON SPIRAL	3.00	0.122	26	36
	3.25	0.122	28	40
	3.50	0.152	36	50

Note: If using truss with D. Fir lumber and S-P-F bearing plate, use values in table for S-P-F.

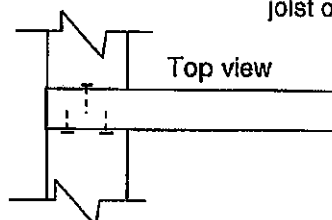
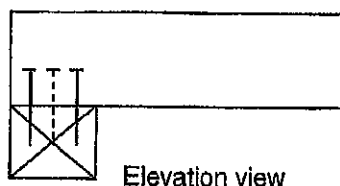
NOTES:

1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to wind or earthquake load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher than the maximum toe-nail withdrawal capacity.
2. Toe nail capacities shown in the table are for one toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.5.2.
3. For 9-3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in table above.
5. Nail values in table are based on the following relative lumber densities: G = 0.42(SPF), G = 0.49(D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See drawing on detail B37579H1).
7. Lumber must be dry (< 19% moisture content) at the time of nail installation.
8. Nail values in this table comply with CSA O86-14, section 12.9.5
9. This design is not valid after March 31, 2021.

Toe-nailing on 2x6 Bearing Plate



Toe-nailing on 2x4 Bearing Plate



MiTek® MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7

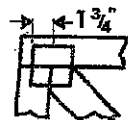
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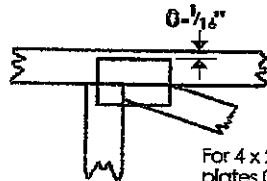
December 2, 2019

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths or mm. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0-1/8" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

*Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T, I or Eliminator bracing if indicated.

BEARING

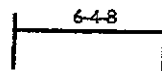


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

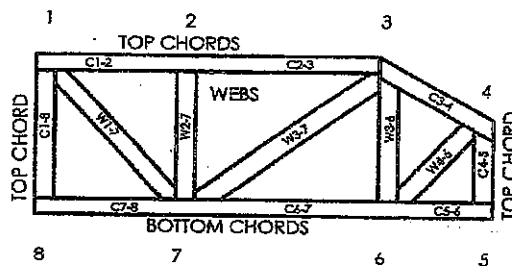
Industry Standards:

TPIC: Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



dimensions shown in ft-in-sixteenths or mm (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

CCMC Reports:

11996-L, 10319-L, 13270-L, 12691-R

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MiTek
POWER TO PERFORM.™

MiTek Engineering Reference Sheet: MII-7473C rev. 10-08

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

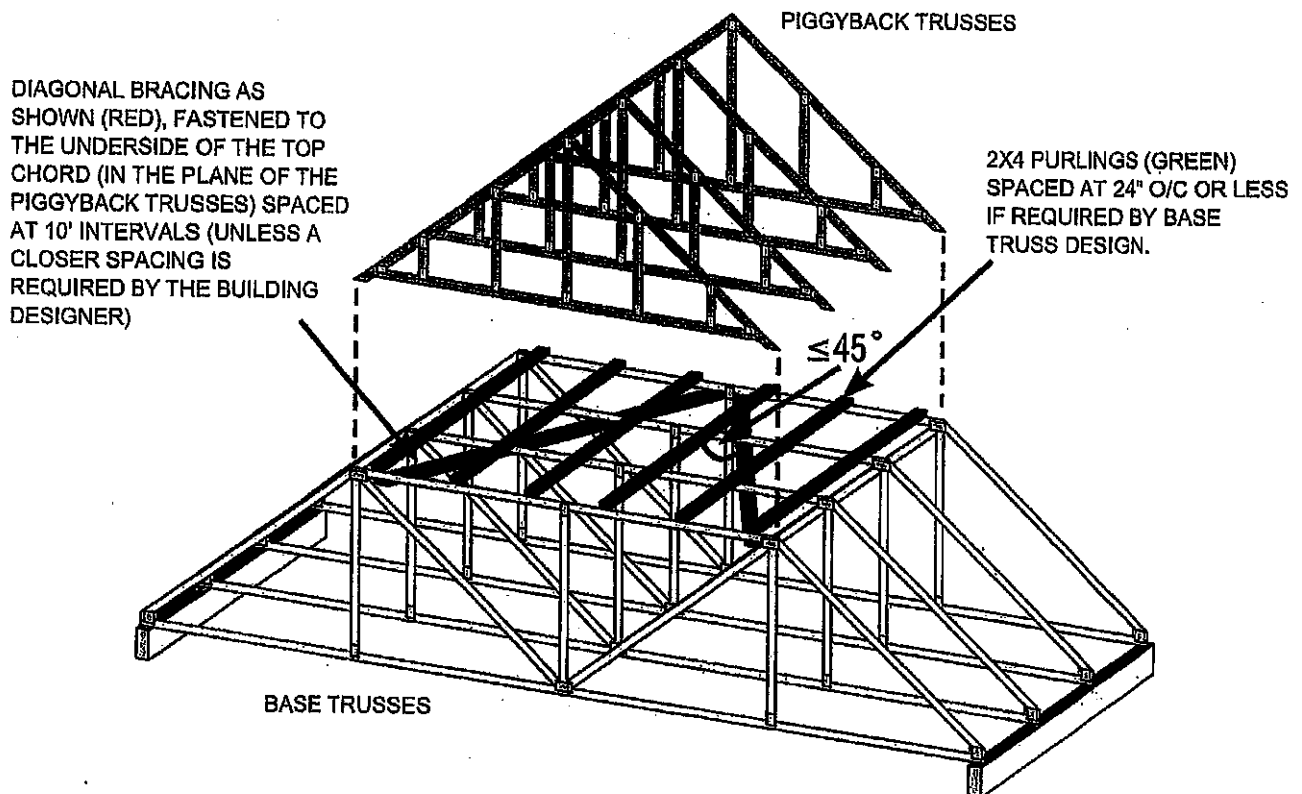
1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by TPIC.
7. Design assumes trusses will be suitably protected from the environment in accord with TPIC.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with TPIC Quality Criteria.

Overview:

Where piggybacks are connected ovetop of base trusses, 2x4 purlins must be first added to the flat portion of the base truss at a spacing no more than 24" o/c. These purlins not only provide support for the piggyback trusses above, but are required to laterally support the top chord of the base truss which will not have the sheathing directly connected to the flat portion of the base truss. This ensures the top chord, most often in compression, will not buckle laterally.

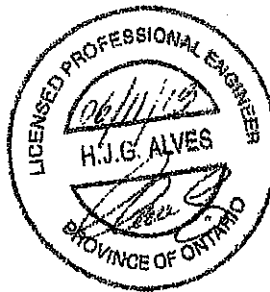
Further, the purlins in the plane of the flat portion require diagonal bracing to prevent lateral displacement of the purlins themselves where under certain conditions, the trusses may in fact all buckle in the same direction if this additional bracing is not added in the plane of the purlins.

Detail:



Disclaimer:

OWTFA Tech Notes are intended to provide guidance to the design community both within the membership as well as to third party designers who might benefit from the information. The details have been developed by the OWTFA technical committee and although there may be professional engineers involved in development, the information contained in the tech-note are not intended to be used without having a professional engineer review the information for a specific application. The OWTFA takes no responsibility with respect to the information provided but has developed this tech-note to offer guidance where it is not currently readily available.



Alves Engineering Services Inc.

5208 Easton road
Burlington, Ontario L7L 6N6
(289) 259 5455

RESPONSABILITIES

- 1-Alves Engineering Services Inc. is responsible for the design of trusses as individual components
- 2-It is the responsibility of others to ascertain that the design loads utilized on this drawing meet or exceed the actual dead load imposed by the structure and the live load imposed by the local building code or the authorities having jurisdictions.
- 3- All dimensions are to be verified by owner, contractor, architect or other authority before manufacture.
- 4- Alves Engineering Services Inc. bears no responsibility for the erection of the trusses. Persons erecting trusses are cautioned to seek professional advice regarding temporary and permanent bracing system. Bracing shown on Alves Engineering Services Inc. drawings is specified for the truss as a single component and forms an integral part of the truss design, but is not meant to represent the only required bracing for that truss when trusses are installed in a series of trusses forming a roof truss system.
- 5- It is the manufactures responsibility to ensure that the trusses are manufactured in conformance with Alves Engineering Services Inc. specifications outlined below.

SPECIFICATIONS

- 1-Truss components sealed by Alves Engineering Services Inc. conform to the relevant sections of the current Building Code of Ontario and Canada (part 4 or part 9) or the current Canadian code for Farm Buildings in accordance with the application specified on the sealed truss component drawing. All truss component design procedures must conform to the current design standard issued by the truss plate institute of Canada (TPIC). All lumber and nailing stresses to conform to the current CSA wood design standard identified on the current Building Code and TPIC.
- 2- Lumber is to be the sizes and grade specified on the truss drawing.
- 3- Moist content of lumber is not to exceed 19% in service unless otherwise specified.
- 4- Plates shall be applied to both faces of the each truss joint and shall be positioned as shown on the truss drawings
- 5- Lumber used on manufacture of trusses is not to be treated with chemicals unless otherwise specified on the truss drawings.
- 6- The top chord is assumed to be continuously laterally braced by the roof sheathing or purlins at intervals specified on the truss drawing but not exceeding 24" c/c for (part 9) and not exceeding 48" for (part 4 or farm design)
- 7- When rigid ceiling is not attached directly to the bottom chord, lateral bracing is required and it should not exceed more than 3m or 10' intervals.
- 8-Refer to Mitek sheet MII7473C REV.10-08 attached for information on symbols, numbering system and General Safety notes.

T-1800213

Feb 09, 2018