



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: LAMBERT LANE PH.2
 Location: CALEDON
 Model: WOODCROFT 11
 Lot #: 50
 Elevation: 2 (4 or 5 bedroom)

Job Track: 50033
 PlanLog: 200630
 Layout ID: 401747
 Ref #
 Page: 1 of 3
 Date: 03/07/2019
 Designer: Jane Gong
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T1 Hip Girder	9/12	36-04-00	5-11-02	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	346.81 218.00		
	1	T2 Hip	9/12	36-04-00	7-05-02	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	190.08 119.50		
	1	T3 Hip	9/12	36-04-00	8-11-02	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	196.08 123.33		
	3	T4 Hip	9/12	36-04-00	10-05-02	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	603.78 373.00		
	1 2-ply	T40 Piggyback Base Girder	9/12	36-04-00	10-05-02	2 x 4 2 x 8	1-03-08 1-03-08	1-06-04 1-06-04	462.73 279.00		
	1	T30 Hip Girder	9/12	19-00-00	5-11-02	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	101.15 65.00		
	1	T31 Hip	9/12	19-00-00	7-05-02	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	88.22 57.67		
	2	T32 Common	9/12	19-00-00	8-07-12	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	174.88 111.33		
	1	T33 Half Hip Girder	9/12	10-00-08	5-11-02	2 x 4 2 x 6		1-06-04 5-11-02	54.28 36.33		
	1 2-ply	T34 Flat	0/12	10-00-08	1-06-00	2 x 6		1-06-00 1-06-00	96.81 65.00		
	1 2-ply	T35 Roof Special Girder	9/12	31-08-00	9-00-14	2 x 6	1-03-08	1-06-04 3-00-04	422.23 257.33		
	1	T36 Hip	9/12	31-08-00	6-02-02	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	136.15 86.17		
	1	T37 Hip	9/12	31-08-00	7-08-02	2 x 4		1-06-04 1-06-04	142.78 91.00		
	1	T38 Hip	9/12	31-08-00	9-02-02	2 x 4		1-06-04 1-06-04	152.21 94.50		



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	4	T39 Hip	9/12	31-08-00	10-08-02	2 x 4		1-06-04 1-06-04	645.59 404.00		
	1 2-ply	T41 Hip Girder	9/12	11-00-00	4-10-08	2 x 4 2 x 6		3-00-04 3-00-04	133.36 89.00		
	1	T42 Hip Girder	9/12	11-06-00	7-05-02	2 x 4 2 x 6	1-03-08 1-03-08	3-06-04 3-06-04	68.2 43.33		
	1 2-ply	T43 Common Girder	9/12	11-06-00	7-10-00	2 x 4 2 x 6	1-03-08 1-03-08	3-06-04 3-06-04	162.96 106.67		
	1	T44S Jack-Closed	10/12	4-06-08	7-05-02	2 x 4	1-03-08	1-07-11 7-05-02	38.08 25.33		
	2	T45S Half Hip	10/12	4-06-08	6-06-04	2 x 4	1-03-08	1-07-11 6-06-04	81.78 56.67		
	2	T46S Half Hip	10/12	4-06-08	5-00-04	2 x 4	1-03-08	1-07-11 5-00-04	68.34 47.67		
	1	PB1 Piggyback	9/12	12-07-00	1-06-00	2 x 4			30.22 19.50		
	1	PB30 Piggyback	9/12	12-07-00	2-04-14	2 x 4			36.62 24.33		
	1 2-ply	PB31 Piggyback	9/12	12-07-00	1-08-10	2 x 4			61.84 40.67		
	1	PB32 Piggyback	9/12	7-03-00	1-06-00	2 x 4			17.41 11.67		
	2	PB33 Piggyback	9/12	7-03-00	2-08-10	2 x 4			34.1 21.33		
	5	J1 Jack-Open Girder	9/12	1-09-07	2-10-05	2 x 4	1-03-08 4-01-01	1-06-04 2-10-05	69.37 48.33		
	5	J2 Jack-Open	9/12	3-09-07	4-04-05	2 x 4	1-03-08 2-01-01	1-06-04 4-04-05	84.2 55.00		



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	22	J5 Jack-Open	9 /12	5-10-08	5-11-02	2 x 4	1-03-08	1-06-04 5-11-02	404.78 264.00		
	6	J6 Jack-Open	9 /12	1-09-07	2-10-05	2 x 4	1-03-08 1-01	1-06-04 2-10-05	55.88 42.00		
	6	J7 Jack-Open	9 /12	1-10-08	4-04-05	2 x 4	1-03-08 1-10-15	1-06-04 2-11-02	73.33 50.00		
	1	J30 Jack-Open	9 /12	4-02-08	4-08-02	2 x 4	1-05-00	1-06-04 4-08-02	15.72 11.00		
	1	J31 Jack-Open	9 /12	3-09-07	4-04-05	2 x 4	1-03-08 5-01	1-06-04 4-04-05	14.84 10.33		
	1	J32 Jack-Open Girder	9 /12	1-09-07	2-10-05	2 x 4	1-03-08 2-05-01	1-06-04 2-10-05	11.97 9.00		
	7	J33 Jack-Open	10 /12	2-01-00	4-10-08	2 x 4	1-03-08	3-01-11 4-10-08	92.93 65.33		

TOTAL # TRUSS= 96

TOTAL BFT OF ALL TRUSSES= 3422.32

BFT.

TOTAL WEIGHT OF ALL TRSSES 5359.79 LBS

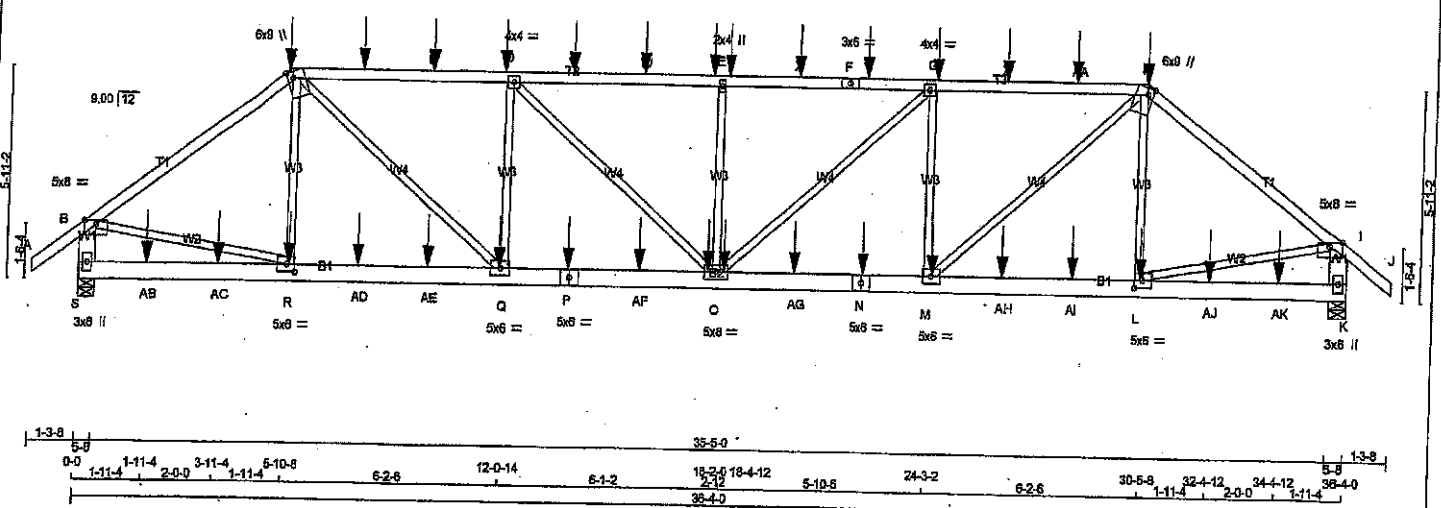
HARDWARE

QTY	TYPE	MODEL	LENGTH
1	Hardware	HGUS26-2	
1	Hardware	HGUS28-2	
12	Hardware	LJS26DS	
7	Hardware	LUS24	
1	Hardware	LUS24-2	

TOTAL NUMBER OF ITEMS= 22

JOB NAME 401746	TRUSS NAME T1	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Fri Mar 8 14:57:54 2019 Page 1
 ID: JZ??Mhv7xX9AtYlloJ08Y9zdOlb-cjyKy5g OK2C?ZIT8F?YYsGf7_LOBwJvn78zcyx
 1-3-8 0-0 5-10-8 5-10-8 6-2-8 12-0-14 6-1-2 18-3-0 18-4-12 5-10-8 24-3-2 6-2-8 30-5-8 6-10-8 38-4-0 37-7-8 1-3-8
 Scale = 1:61.6



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - J	2x4	DRY	No.2
S - B	2x8	DRY	No.2
K - I	2x8	DRY	No.2
S - P	2x8	DRY	No.2
P - N	2x8	DRY	No.2
N - K	2x8	DRY	No.2

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C	12	SIDE(81.0)
C-F	12	SIDE(81.0)
F-H	12	SIDE(81.0)
H-J	12	SIDE(81.0)
S-B	2	TOP
K-I	2	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
S-P	2	SIDE(183.1)
P-N	2	SIDE(183.1)
N-K	2	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
R-C	1	SIDE(10.3)
L-H	1	SIDE(10.3)
2x3	1	SIDE(8.1)
E-O	1	SIDE(8.1)

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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
B	TMWV-p	MT20	5.0	8.0 Edge
C	TTWW+m	MT20	6.0	8.0 Edge 2.00
D	TMWW-l	MT20	4.0	4.0
E	TMW-w	MT20	2.0	4.0
F	TS-l	MT20	3.0	6.0
G	TMWW-l	MT20	4.0	4.0
H	TTWW+m	MT20	6.0	8.0 Edge 2.00
I	TMW-p	MT20	5.0	8.0 Edge
J	BMV-l+p	MT20	3.0	6.0
L	BMWW-l	MT20	5.0	6.0 2.50 2.75
M	BMWW-l	MT20	5.0	6.0
N	BS-l	MT20	5.0	6.0
O	BMWW-l	MT20	5.0	8.0
P	BS-l	MT20	5.0	6.0

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
S	4270	0	4270	0	5-8
K	4270	0	4270	0	5-8

UNFACTORED REACTIONS		1ST CASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
S	3141	1839 / 0	483 / 0
K	3141	1839 / 0	483 / 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		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORZ. LOAD (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)
FR-TO	MEMB.	FORCE	VERT. LOAD	HORZ. LOAD	UNBRACED LENGTH
A-B	0 / 42	-102.1	-102.1	0.08 (1)	10.00
B-C	-4888 / 0	-102.1	-102.1	0.81 (1)	3.88
C-T	-6248 / 0	-102.1	-102.1	0.82 (1)	3.17
T-U	-6248 / 0	-102.1	-102.1	0.82 (1)	3.17
U-D	-6248 / 0	-102.1	-102.1	0.82 (1)	3.17
D-V	-6984 / 0	-102.1	-102.1	0.88 (1)	2.94
V-W	-6984 / 0	-102.1	-102.1	0.88 (1)	2.94
W-E	-6984 / 0	-102.1	-102.1	0.88 (1)	2.94
E-X	-6984 / 0	-102.1	-102.1	0.88 (1)	2.94
X-F	-6984 / 0	-102.1	-102.1	0.88 (1)	2.94
F-Y	-6984 / 0	-102.1	-102.1	0.88 (1)	2.94
Y-G	-6984 / 0	-102.1	-102.1	0.88 (1)	2.94
G-Z	-6248 / 0	-102.1	-102.1	0.82 (1)	3.17
Z-AA	-6248 / 0	-102.1	-102.1	0.82 (1)	3.17
AA-H	-6248 / 0	-102.1	-102.1	0.82 (1)	3.17
H-I	-4888 / 0	-102.1	-102.1	0.81 (1)	3.88
I-J	0 / 42	-102.1	-102.1	0.08 (1)	10.00
S-B	-4113 / 0	0.0	0.0	0.15 (1)	7.03
K-I	-4113 / 0	0.0	0.0	0.15 (1)	7.03

WEBS		MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORZ. LOAD (LBS)
FR-TO	MEMB.	FORCE	HORZ. LOAD
R-C	-311 / 220	0.08 (1)	0.39 (1)
C-Q	0 / 5139	0.47 (1)	0.12 (1)
Q-D	-1792 / 0	0.27 (1)	0.12 (1)
D-O	0 / 996	0.12 (1)	0.27 (1)
O-E	-1020 / 0	0.12 (1)	0.47 (1)
E-G	0 / 996	0.12 (1)	0.47 (1)
G-H	-1792 / 0	0.39 (1)	0.08 (1)
H-M	0 / 3139	0.49 (1)	0.15 (1)
M-L	-311 / 220	0.49 (1)	0.15 (1)
L-I	0 / 3980	0.49 (1)	0.15 (1)

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 28.0 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 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
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(65 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.21")
CALCULATED VERT. DEFL. (LL) = L/999 (0.18")
ALLOWABLE DEFL. (TL) = L/360 (1.21")
CALCULATED VERT. DEFL. (TL) = L/999 (0.32")

CSI: TC=0.88/1.00 (D-E-1), BC=0.47/1.00 (M-O-1), WB=0.49/1.00 (L-1), SS=0.23/1.00 (C-D-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

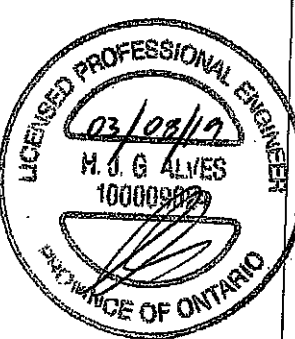
NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 786 1887 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SI GRIP = 0.88 (L) (INPUT = 0.90)
SI METAL = 0.80 (F) (INPUT = 1.00)

DRWG NO. TAM T1905190
STRUCTURAL
COMPONENT ONLY 1/2



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
401746	T1	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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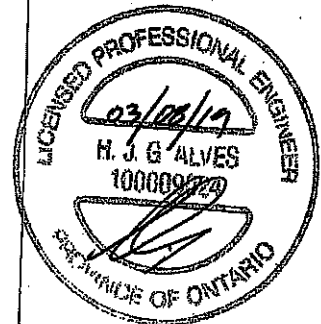
PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
Q BMWW-t	MT20	5.0	6.0		
R BMWW-t	MT20	5.0	6.0	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	-507	-507		FRONT	VERT	TOTAL		
D	11-11-4	-123	-123		FRONT	VERT	TOTAL		
E	17-11-4	-123	-123		FRONT	VERT	TOTAL		
E	18-4-12	-123	-123		FRONT	VERT	TOTAL		
G	24-4-12	-123	-123		FRONT	VERT	TOTAL		
H	30-5-8	-507	-507		FRONT	VERT	TOTAL		
L	30-4-12	-26	-26		FRONT	VERT	TOTAL		
M	24-4-12	-26	-26		FRONT	VERT	TOTAL		
N	22-4-12	-26	-26		FRONT	VERT	TOTAL		
O	17-11-4	-28	-28		FRONT	VERT	TOTAL		
O	18-4-12	-28	-28		FRONT	VERT	TOTAL		
P	13-11-4	-26	-26		FRONT	VERT	TOTAL		
Q	11-11-4	-26	-26		FRONT	VERT	TOTAL		
R	5-11-4	-26	-26		FRONT	VERT	TOTAL		
T	7-11-4	-123	-123		FRONT	VERT	TOTAL		
U	9-11-4	-123	-123		FRONT	VERT	TOTAL		
V	13-11-4	-123	-123		FRONT	VERT	TOTAL		
W	15-11-4	-123	-123		FRONT	VERT	TOTAL		
X	20-4-12	-123	-123		FRONT	VERT	TOTAL		
Y	22-4-12	-123	-123		FRONT	VERT	TOTAL		
Z	26-4-12	-123	-123		FRONT	VERT	TOTAL		
AA	28-4-12	-123	-123		FRONT	VERT	TOTAL		
AB	1-11-4	-75	-85		FRONT	VERT	TOTAL		
AC	3-11-4	-75	-85		FRONT	VERT	TOTAL		
AD	7-11-4	-26	-26		FRONT	VERT	TOTAL		
AE	8-11-4	-26	-26		FRONT	VERT	TOTAL		
AF	15-11-4	-26	-26		FRONT	VERT	TOTAL		
AG	20-4-12	-26	-26		FRONT	VERT	TOTAL		
AH	25-4-12	-26	-26		FRONT	VERT	TOTAL		
AI	28-4-12	-26	-26		FRONT	VERT	TOTAL		
AJ	32-4-12	-75	-85		FRONT	VERT	TOTAL		
AK	34-4-12	-75	-85		FRONT	VERT	TOTAL		



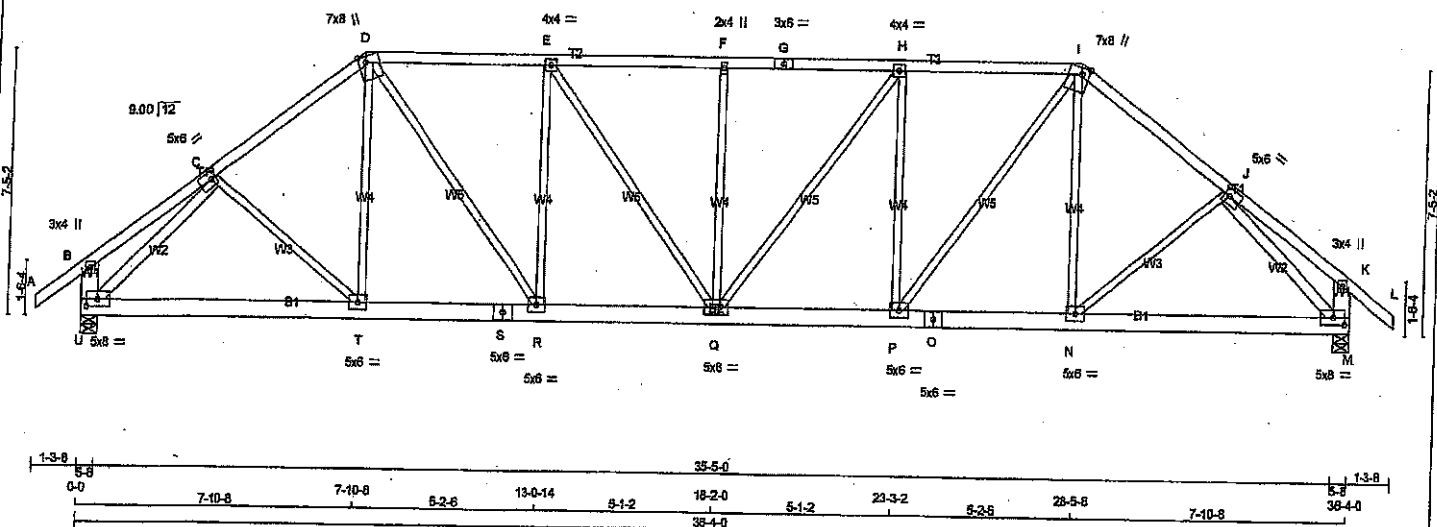
DWG NO. TAM 17905190
STRUCTURAL
COMPONENT ONLY 3/2

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1-3-8 0-0 3-7-8 4-3-0 7-10-8 13-0-14 5-1-2 18-2-0 5-1-2 23-3-2 5-2-8 26-5-8 4-3-0 32-8-8 38-4-0 37-7-8 1-3-8

Scale 1:81



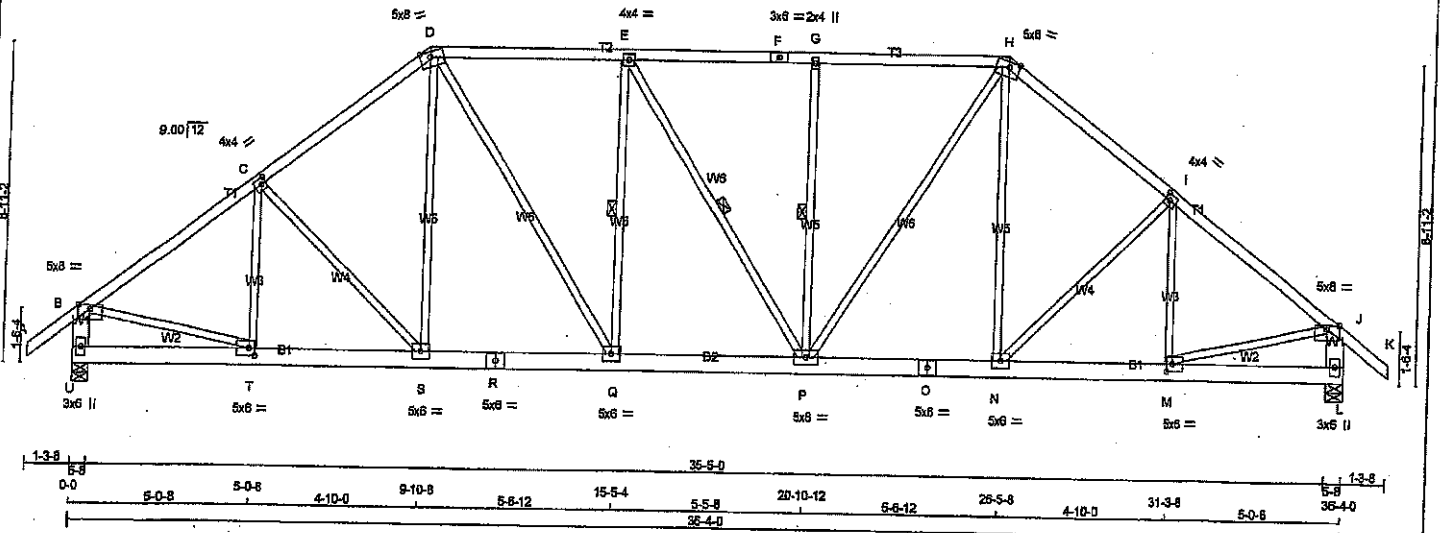
J	T	TYPE	PLATES	W	LEN	Y	X
B		TMW+p	MT20	3.0	4.0		
C		TMWW-t	MT20	5.0	8.0	2.50	1.75
D		TTWW+m	MT20	7.0	8.0	Edge	2.50
E		TMWW-t	MT20	4.0	4.0		
F		TMW+w	MT20	2.0	4.0		
G		TS-t	MT20	3.0	8.0		
H		TMWW-t	MT20	4.0	4.0		
I		TTWW+m	MT20	7.0	8.0	Edge	2.50
J		TMWW-t	MT20	5.0	6.0	2.50	1.75
K		TMW+p	MT20	3.0	4.0		
M		BMWV-t	MT20	5.0	8.0	2.50	3.75
N, P, R, T							
N		BMWW-t	MT20	5.0	8.0		
O		BS-t	MT20	5.0	6.0		
Q		BMWWWW-t	MT20	5.0	8.0		
S		BS-t	MT20	5.0	6.0		
U		BMWV-t	MT20	5.0	8.0	2.50	3.75

CHORDS				WEBB				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM TO			FR-TO			
A-B	0/42	-102.1	-102.1	0.14 (1)	10.00	C-T	0/182	0.04 (3)
B-C	0/31	-102.1	-102.1	0.25 (1)	10.00	T-D	0/283	0.07 (3)
C-D	-2895/0	-102.1	-102.1	0.42 (1)	3.77	D-R	0/1356	0.31 (1)
D-E	-3078/0	-102.1	-102.1	0.60 (1)	3.42	R-E	-324/0	0.86 (1)
E-F	-3317/0	-102.1	-102.1	0.83 (1)	3.28	E-Q	0/412	0.09 (1)
F-G	-3317/0	-102.1	-102.1	0.83 (1)	3.28	Q-F	-477/0	0.44 (1)
G-H	-3317/0	-102.1	-102.1	0.83 (1)	3.28	Q-H	0/412	0.09 (1)
H-I	-3078/0	-102.1	-102.1	0.80 (1)	3.42	F-H	-924/0	0.88 (1)
I-J	-2895/0	-102.1	-102.1	0.42 (1)	3.77	P-I	0/1356	0.31 (1)
J-K	0/31	-102.1	-102.1	0.25 (1)	10.00	N-I	0/283	0.07 (3)
K-L	0/42	-102.1	-102.1	0.14 (1)	10.00	N-J	0/182	0.04 (3)
U-B	-2893/0	0.0	0.0	0.02 (1)	7.81	U-C	-3151/0	0.89 (1)
M-K	-269/0	0.0	0.0	0.02 (1)	7.81	J-M	-3151/0	0.89 (1)
U-T	0/2156	-38.5	-38.5	0.40 (1)	10.00			
T-S	0/2270	-38.5	-38.5	0.41 (2)	10.00			
S-R	0/2270	-38.5	-38.5	0.41 (2)	10.00			
R-Q	0/3076	-38.5	-38.5	0.43 (1)	10.00			
Q-P	0/3076	-38.5	-38.5	0.43 (1)	10.00			
P-O	0/2270	-38.5	-38.5	0.41 (2)	10.00			
O-N	0/2270	-38.5	-38.5	0.41 (2)	10.00			
N-M	0/2156	-38.5	-38.5	0.40 (1)	10.00			

DWG NO. TAM T7905191
STRUCTURAL
COMPONENT ONLY

JOB NAME 401746	TRUSS NAME T3	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.230 5 Nov 17 2018 Mitek Industries, Inc. Fri Mar 8 14:57:56 2019 Page 1
ID: JZ??MhV7xX9ATyloJ08Y9zdOib-Y63f6xV0amSlSyPuAj4zdHXNBSECUN1OuB0zcyv
20-10-12 25-5-8 31-3-8 36-4-0 37-7-8
Scale = 1:51.6



LUMBER			
N.L.G.A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - K	2x4	DRY	No.2
U - B	2x6	DRY	No.2
L - J	2x6	DRY	No.2
U - R	2x6	DRY	No.2
R - O	2x6	DRY	No.2
O - L	2x6	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
DRY: SEASONED LUMBER.			

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW-p	MT20	5.0	8.0 Edge
C	TMVW-t	MT20	4.0	4.0 2.00 1.50
D	TTWW-m	MT20	5.0	8.0 Edge 3.50
E	TMVW-t	MT20	4.0	4.0
F	TS-t	MT20	3.0	6.0
G	TMVW-w	MT20	2.0	4.0
H	TTWW-m	MT20	5.0	8.0 Edge 3.50
I	TMVW-t	MT20	4.0	4.0 2.00 1.50
J	TMVW-p	MT20	5.0	8.0 Edge
L	BMV1+p	MT20	3.0	6.0
M	BMVW-t	MT20	5.0	6.0 2.50 2.00
N, Q, S				
N	BMVW-t	MT20	5.0	6.0
O	BS-t	MT20	5.0	6.0
P	BMVW-t	MT20	5.0	8.0
R	BS-t	MT20	5.0	6.0
T	BMVW-t	MT20	5.0	6.0 2.50 2.00
U	BMV1+p	MT20	3.0	6.0

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

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

FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	GROSS REACTION	JT	GROSS REACTION	BRG	BRG	BRG	BRG
U	2695 0	U	2695 0	5-8	5-8	5-8	5-8
L	2695 0	L	2695 0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	JT	COMBINED
U	2005 1135 / 0	U	2005 1135 / 0
L	2005 1135 / 0	L	2005 1135 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.72 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0 / 42	T-C	-334 / 24
B-C	-2878 / 0	C-S	-240 / 0
C-D	-2741 / 0	S-D	0 / 410
D-E	-2886 / 0	D-Q	0 / 874
E-F	-2882 / 0	Q-E	-602 / 0
F-G	-2882 / 0	E-P	-9 / 0
G-H	-2691 / 0	P-G	-605 / 0
H-I	-2743 / 0	I-H	0 / 983
I-J	-2878 / 0	H-H	0 / 416
J-K	0 / 42	N-I	-238 / 0
U-B	-2601 / 0	M-I	-337 / 24
L-J	-2600 / 0	B-T	0 / 2386
		M-J	0 / 2386
U-T	0 / 0		
T-S	0 / 2330		
S-R	0 / 2165		
R-Q	0 / 2165		
Q-P	0 / 2697		
P-O	0 / 2168		
O-N	0 / 2166		
N-M	0 / 2330		
M-L	0 / 0		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.09/12

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, OBC 2012
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/380 (1.21")
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")
ALLOWABLE DEFL.(TL) = L/360 (1.21")
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")

CSI: TC=0.47/1.00 (D-E:1), BC=0.37/1.00 (P-Q:1), WB=0.54/1.00 (B-T:1), SS=0.26/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

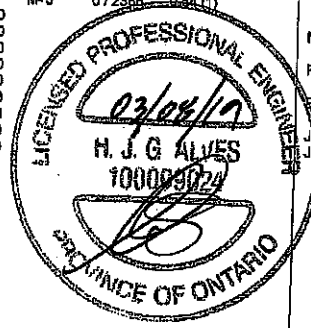
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1697 786 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

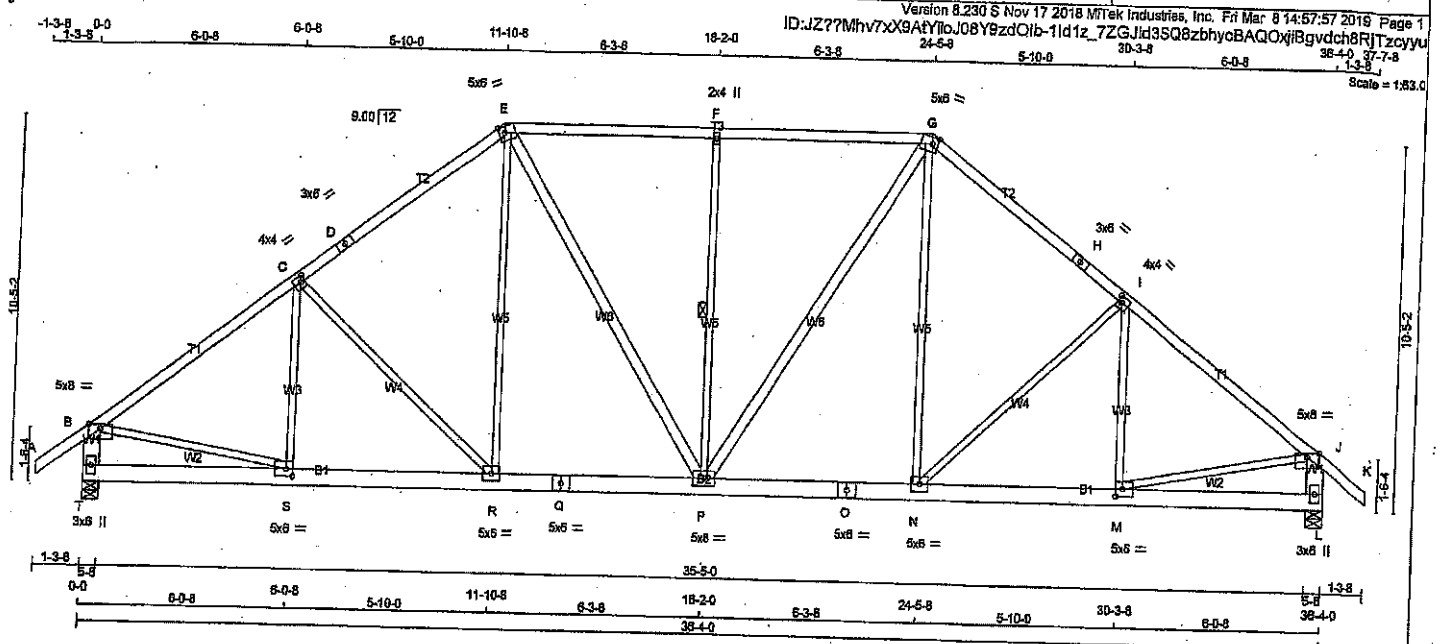
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (T) (INPUT=0.80)
JSI METAL= 0.58 (T) (INPUT=1.00)



DRWG NO. TAM 17905192
STRUCTURAL
COMPONENT ONLY

JOB NAME 401746	TRUSS NAME T4	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC. 	



TOTAL WEIGHT = 2 X 201 = 403 lb
[M/F]

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
G - H	2x4	DRY	No.2
H - K	2x4	DRY	No.2
T - B	2x6	DRY	No.2
L - J	2x6	DRY	No.2
T - Q	2x6	DRY	No.2
Q - O	2x6	DRY	No.2
O - L	2x6	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
E - P	2x4	DRY	No.2
P - G	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW-p	MT20	5.0	8.0 Edge
C	TMVW-t	MT20	4.0	4.0 2.00 1.50
D	TS-t	MT20	3.0	6.0
E	TTVW-m	MT20	5.0	6.0 Edge 2.00
F	TMVW-w	MT20	2.0	4.0
G	TTVW-m	MT20	5.0	6.0 Edge 2.00
H	TS-t	MT20	3.0	6.0
I	TMVW-t	MT20	4.0	4.0 2.00 1.50
J	TMVW-p	MT20	5.0	8.0 Edge
L	BMV1-p	MT20	3.0	6.0
M	BMVW-t	MT20	5.0	6.0 2.50 2.25
N	BS-t	MT20	5.0	8.0
O	BMVW-w	MT20	5.0	8.0
P	BS-t	MT20	5.0	6.0
Q	BMVW-t	MT20	5.0	6.0
R	BMVW-w	MT20	5.0	6.0
S	BMVW-t	MT20	5.0	6.0 2.50 2.25
T	BMV1-p	MT20	3.0	6.0

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

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
T	2695	0	2695	0	0	5-8	5-8
L	2695	0	2695	0	0	5-8	5-8

UNFACTORED REACTIONS		MAX/MIN COMPONENT REACTIONS		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	COMBINED	SNOW
T	2005	1135 / 0	382 / 0	0 / 0	0 / 0	489 / 0	0 / 0	2005	1135 / 0
L	2005	1135 / 0	382 / 0	0 / 0	0 / 0	489 / 0	0 / 0	2005	1135 / 0

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

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

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF P.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. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)	MAX. UNBRACED LENGTH (FT)
FR-TO		FROM TO		FR-TO			
A-B	0 / 42	-102.1 -102.1	0.14 (1)	S-C	-201 / 123	0.11 (1)	10.00
B-C	-2819 / 0	-102.1 -102.1	0.70 (1)	C-R	-453 / 0	0.84 (1)	3.45
C-D	-2800 / 0	-102.1 -102.1	0.63 (1)	R-E	0 / 585	0.13 (2)	3.69
D-E	-2800 / 0	-102.1 -102.1	0.63 (1)	E-P	0 / 803	0.10 (1)	3.69
E-F	-2367 / 0	-102.1 -102.1	0.62 (1)	P-F	-784 / 0	0.57 (1)	3.77
F-G	-2367 / 0	-102.1 -102.1	0.62 (1)	P-G	0 / 803	0.10 (1)	3.77
G-H	-2800 / 0	-102.1 -102.1	0.63 (1)	N-G	0 / 566	0.13 (2)	3.69
H-I	-2800 / 0	-102.1 -102.1	0.63 (1)	N-I	-453 / 0	0.64 (1)	3.69
I-J	-2819 / 0	-102.1 -102.1	0.70 (1)	M-I	-201 / 123	0.11 (1)	3.45
J-K	0 / 42	-102.1 -102.1	0.14 (1)	B-S	0 / 2410	0.54 (1)	10.00
T-B	-2590 / 0	0.0 0.0	0.17 (1)	M-J	0 / 2410	0.54 (1)	8.45
L-J	-2590 / 0	0.0 0.0	0.17 (1)				8.45
T-S	0 / 0	-38.5 -38.5	0.11 (2)				10.00
S-R	0 / 2370	-38.5 -38.5	0.35 (1)				10.00
R-Q	0 / 2047	-38.5 -38.5	0.32 (1)				10.00
Q-P	0 / 2047	-38.5 -38.5	0.32 (1)				10.00
P-O	0 / 2047	-38.5 -38.5	0.32 (1)				10.00
O-N	0 / 2047	-38.5 -38.5	0.32 (1)				10.00
N-M	0 / 2370	-38.5 -38.5	0.35 (1)				10.00
M-L	0 / 0	-38.5 -38.5	0.11 (2)				10.00

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 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 CBC 2018, OBC 2012
- CSA 088-08, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.21")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (1.21")
CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

CS1: TC=0.70/1.00 (I-J:1), BC=0.35/1.00 (R-S:1), WB=0.64/1.00 (C-R:1), SS=0.31/1.00 (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 HEELS OFF

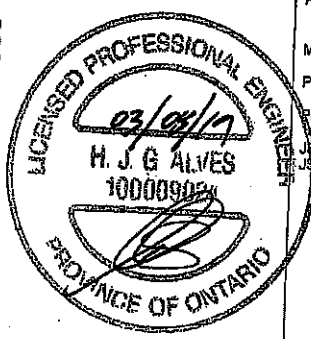
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES			
PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PL)
MT20	616	354	1887
	788	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

J1 GRIP= 0.89 (M) (INPUT = 0.80)
J1 METAL= 0.59 (S) (INPUT = 1.00)



AUG 28 2019

TOWN OF CALEDON
BUILDING SECTION
FILE NO.

DRWG NO. TAM 17905193
STRUCTURAL
COMPONENT ONLY

amarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Fri Mar 8 16:03:38 2019 Page 1
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Scale = 1:35.7

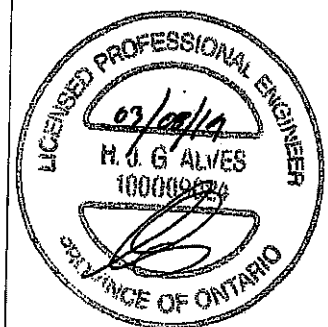


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401747	T30	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Fri Mar 8 16:03:36 2019 Page 2
ID:WgbqZUdaZoGGG5kr1uHUDJyMe5-B588qsoMdazI7o3BDMsfmrpdam4Dc5TQN0pNUfzcy7L

FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
W	17-0-12	-75	-85	-	BACK	VERT	TOTAL	-	-

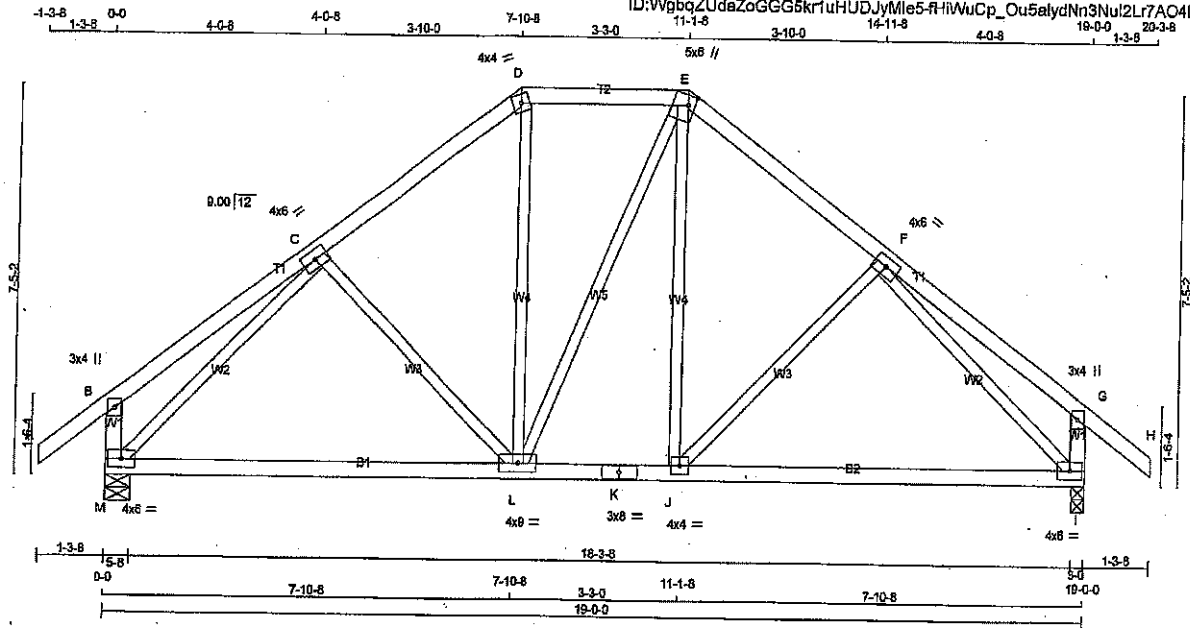


DWG NO. TAM T7905224
STRUCTURAL
COMPONENT ONLY 2/2

JOB NAME 401747	TRUSS NAME T31	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.230 S Nov 17 2018 MTek Industries, Inc. Fri Mar 8 16:03:37 2019 Page 1
ID:WpbqZUdaZoGGG5kr1uHUDJyMle5-RHwUcP_Ou5alydNn3Nu12Lr7AO4LZ4ZcgYx05zcy7K

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



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - H	2x4	DRY	No.2
M - B	2x4	DRY	No.2
I - G	2x4	DRY	No.2
M - K	2x4	DRY	No.2
K - I	2x4	DRY	No.2

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMV+p	MT20	3.0	4.0	
C	TMVW-t	MT20	4.0	6.0	
D	TTW-m	MT20	4.0	4.0	
E	TTWW-m	MT20	5.0	6.0	2.25 1.50
F	TMVW-t	MT20	4.0	6.0	
G	TMV+p	MT20	3.0	4.0	
I	BMVW-t	MT20	4.0	6.0	
J	BMVW-t	MT20	4.0	4.0	
K	BS-t	MT20	3.0	8.0	
L	BMVW-t	MT20	4.0	9.0	
M	BMVW-t	MT20	4.0	6.0	

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
M	1477	0	1477	0	0	5-8	5-8		
I	1477	0	1477	0	0	3-0	3-0		

UNFACTORED REACTIONS

1ST LOASE		MAX /MIN. COMPONENT REACTIONS		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	COMBINED	SNOW	LIVE	PERM. LIVE
M	1095	632 / 0	200 / 0	0 / 0	0 / 0	264 / 0	0 / 0				
I	1095	632 / 0	200 / 0	0 / 0	0 / 0	264 / 0	0 / 0				

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.73 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	FORCE (LBS)	MAX. FACTORED CSI (LC)	UNBRACED LENGTH
FR-TO				FR-TO			
A-B	0 / 42	-102.1	-102.1 0.14 (1)	C-L	-156 / 40	0.09 (1)	10.00
B-C	0 / 28	-102.1	-102.1 0.25 (1)	L-D	0 / 360	0.08 (2)	10.00
C-D	-1142 / 0	-102.1	-102.1 0.21 (1)	L-E	0 / 2	0.00 (2)	5.73
D-E	-894 / 0	-102.1	-102.1 0.15 (1)	J-E	0 / 358	0.08 (2)	6.25
E-F	-1141 / 0	-102.1	-102.1 0.21 (1)	J-F	-157 / 40	0.09 (1)	5.73
F-G	0 / 28	-102.1	-102.1 0.25 (1)	M-C	-1452 / 0	0.78 (1)	10.00
G-H	0 / 42	-102.1	-102.1 0.14 (1)	F-I	-1451 / 0	0.78 (1)	10.00
H-B	-295 / 0	0.0	0.0 0.03 (1)				7.81
I-G	-295 / 0	0.0	0.0 0.03 (1)				7.81
M-L	0 / 999	-38.5	-38.5 0.50 (2)				10.00
L-K	0 / 894	-38.5	-38.5 0.48 (2)				10.00
K-J	0 / 894	-38.5	-38.5 0.48 (2)				10.00
J-I	0 / 998	-38.5	-38.5 0.51 (2)				10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 28.0 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 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
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/360$ (0.63")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.17")
ALLOWABLE DEFL. (TL) = $L/360$ (0.63")
CALCULATED VERT. DEFL. (TL) = $L/800$ (0.28")

CSI: TC=0.25/1.00 (F-G:1), BC=0.51/1.00 (I-J:2), WB=0.78/1.00 (C-M:1), SSI=0.19/1.00 (L-M:3)

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.

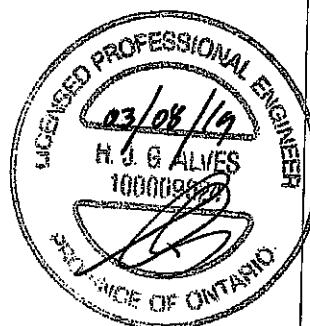
NAIL VALUES

PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 783 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SI GRIP= 0.85 (C) (INPUT = 0.90)
SI METAL= 0.78 (K) (INPUT = 1.00)

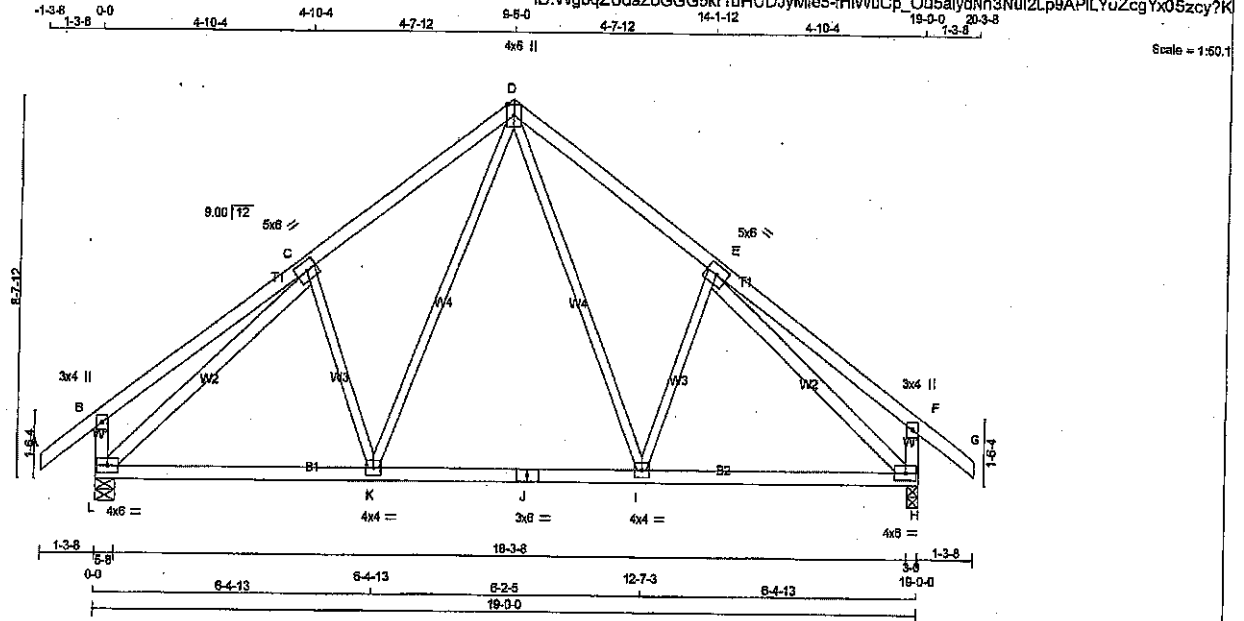


DRWG NO. TAM 1905225
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401747	T32	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 92 = 183 lb

LUMBER

N. L. G. A. RULES

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

ALL WEBS	2x3 DRY	No.2	SPF
EXCEPT			
L - C	2x4 DRY	No.2	SPF
E - H	2x4 DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMWW-t	MT20	5.0	6.0		
D	TTWW+p	MT20	4.0	6.0	Edges	
E	TMWW-t	MT20	5.0	6.0		
F	TMV+p	MT20	3.0	4.0		
H	BMVW-t	MT20	4.0	8.0		
I	BMWW-t	MT20	4.0	4.0		
J	BS-4	MT20	3.0	6.0		
K	BMWW-t	MT20	4.0	4.0		
L	BMVW-t	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
L	1477	0	1477	0
H	1477	0	1477	0

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	1095	632 / 0	200 / 0	0 / 0	0 / 0	264 / 0	0 / 0
H	1095	632 / 0	200 / 0	0 / 0	0 / 0	264 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.43 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)	MAX. MEMB. LENGTH FR-TO	WEBS	MAX. FACTORED FORCE (LBS)	MAX. MEMB. LENGTH FR-TO
FR-TO								
A-B	0 / 42	-102.1	-102.1	0.14 (1)	10.00	D-I	0 / 582	0.13 (1)
B-C	0 / 35	-102.1	-102.1	0.38 (1)	10.00	I-E	-278 / 24	0.12 (1)
C-D	-1227 / 0	-102.1	-102.1	0.31 (1)	5.43	K-D	0 / 562	0.13 (1)
D-E	-1227 / 0	-102.1	-102.1	0.31 (1)	5.43	C-K	-278 / 24	0.12 (1)
E-F	0 / 35	-102.1	-102.1	0.38 (1)	10.00	L-C	-1487 / 0	0.85 (1)
F-G	0 / 42	-102.1	-102.1	0.14 (1)	10.00	E-H	-1487 / 0	0.85 (1)
L-B	-323 / 0	0.0	0.0	0.03 (1)	7.81			
H-F	-323 / 0	0.0	0.0	0.03 (1)	7.81			
L-K	0 / 1049	-38.5	-38.5	0.40 (2)	10.00			
K-J	0 / 758	-38.5	-38.5	0.38 (2)	10.00			
J-I	0 / 758	-38.5	-38.5	0.38 (2)	10.00			
I-H	0 / 1049	-38.5	-38.5	0.40 (2)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	28.0	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	10.6	PSF
	DL	=	7.0	PSF
TOTAL LOAD	=	52.5	PSF	

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.63")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.67")
ALLOWABLE DEFL.(TL) = $L/360$ (0.63")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.12")

CSI: TC=0.38/1.00 (B-C:1), BC=0.40/1.00 (K-L:2), WB=0.89/1.00 (E-H: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 HEELS OFF

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	518 354	1667 788 1887 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.82 (C) (INPUT = 0.90)

JSI METAL= 0.39 (E) (INPUT = 1.00)



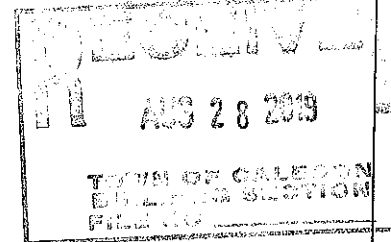
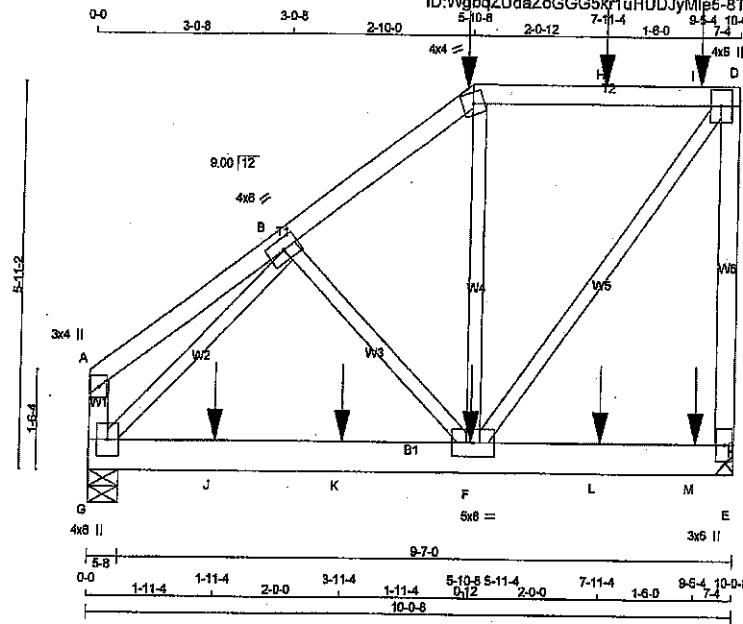
DWG NO. TAM 17905226
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401747	T33	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:WgbqZUdaZoGGG5kr1uHUDJyMle5-8TG5Ypc9BERN5CZLnv7rGu4anb471jKIUZXzoy7J

Scale = 1:33.8



LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - C 2x4 DRY No.2

C - D 2x4 DRY No.2

E - D 2x4 DRY No.2

G - A 2x4 DRY No.2

G - E 2x4 DRY No.2

ALL WEBS 2x3 DRY No.2

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	3.0	4.0		
B	TMWW-t	MT20	4.0	6.0		
C	TMW-m	MT20	4.0	4.0		
D	TMWW+p	MT20	4.0	8.0		
E	BMV1+p	MT20	3.0	8.0		
F	BMWWW-t	MT20	5.0	8.0		
G	BMWW1+p	MT20	4.0	8.0		

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
E	1421	0	1421	0
G	1097	0	1097	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN.	COMPONENT	REACTIONS
	COMBINED	SNOW	LIVE	PERM. LIVE
E	1059	591 / 0	205 / 0	0 / 0
G	829	430 / 0	184 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.03 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	CS1 (LC)	UNBRAC	MEMB.	WEBS	MAX. FACTORED	MAX	CS1 (LC)
FR-TO		FORCE (LBS)							FR-TO		FORCE (LBS)		
A-B	0 / 20			-102.1	-102.1	0.15 (1)	10.00		B-F	-77 / 47		0.03 (1)	
B-C	-857 / 0			-102.1	-102.1	0.16 (1)	8.25		F-C	-417 / 100		0.22 (1)	
C-H	-857 / 0			-102.1	-102.1	0.81 (1)	6.03		F-D	0 / 1131		0.28 (1)	
H-I	-857 / 0			-102.1	-102.1	0.81 (1)	6.03		G-B	-1088 / 0		0.35 (1)	
I-D	-857 / 0			-102.1	-102.1	0.81 (1)	6.03						
E-D	-1305 / 0			0.0	0.0	0.81 (1)	7.03						
G-A	-115 / 0			0.0	0.0	0.01 (1)	7.81						
G-J	0 / 728			-38.5	-38.5	0.30 (2)	10.00						
J-K	0 / 728			-38.5	-38.5	0.30 (2)	10.00						
K-F	0 / 728			-38.5	-38.5	0.30 (2)	10.00						
F-L	0 / 0			-38.5	-38.5	0.22 (3)	10.00						
L-M	0 / 0			-38.5	-38.5	0.22 (3)	10.00						
M-E	0 / 0			-38.5	-38.5	0.22 (3)	10.00						

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	5-10-8	-512	-512		BACK	VERT	TOTAL		
F	5-11-4	-57	-73		BACK	VERT	TOTAL		
H	7-11-4	-123	-123		BACK	VERT	TOTAL		
I	9-5-4	-143	-143		BACK	VERT	TOTAL		
J	1-11-4	-75	-95		BACK	VERT	TOTAL		
K	3-11-4	-75	-95		BACK	VERT	TOTAL		
L	7-11-4	-57	-73		BACK	VERT	TOTAL		
M	9-5-4	-65	-82		BACK	VERT	TOTAL		

TOTAL WEIGHT = 54 lb

[M]

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	29.0	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	10.5	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	52.5	PSF

SPACING = 24.0 IN./C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012
- CSA 085-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.33")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.03")
ALLOWABLE DEFL.(TL) = $L/360$ (0.33")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.05")

CS1: TO=0.81/1.00 (D-E-1), BC=0.30/1.00 (F-G-2), WB=0.35/1.00 (B-G-1), SS=0.34/1.00 (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)	(PL)	(PL)
MT20	618	354
	1657	788
	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

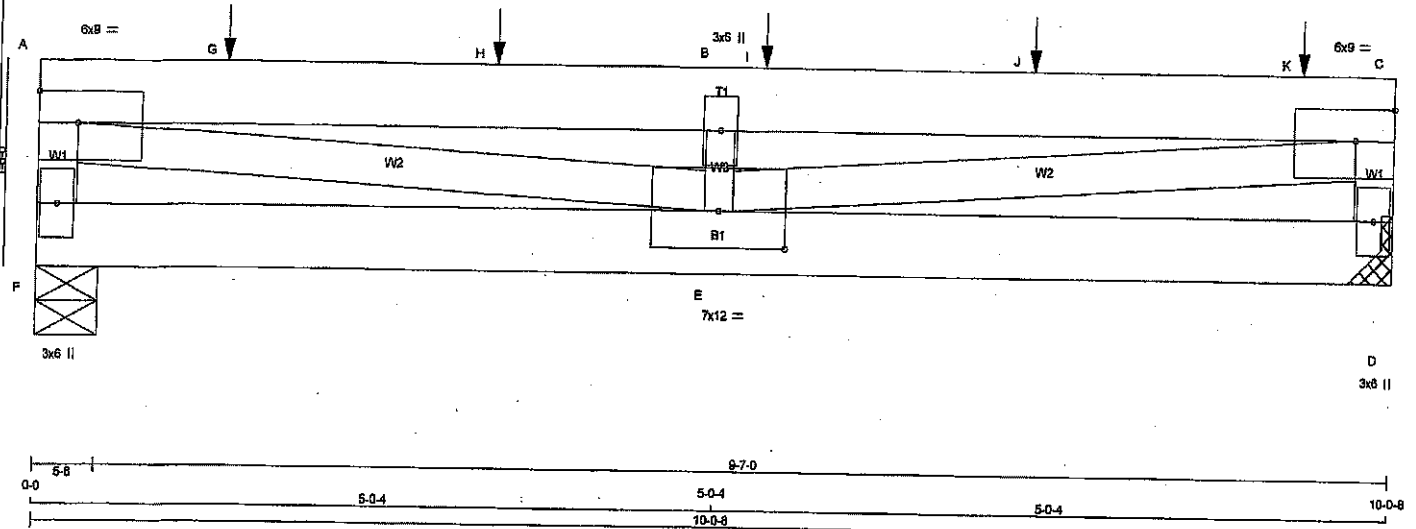
JSI GRIP= 0.68 (F) (INPUT = 0.90)

JSI METAL= 0.33 (G) (INPUT = 1.00)

DRWG NO. TAM 17405227
STRUCTURAL
COMPONENT ONLY



JOB NAME 401747.	TRUSS NAME T34	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.230 S Nov 17 2018 MTEK Industries, Inc. Fri Mar 8 16:17:22 2019 Page 1			
ID:WgbqZUdaZoGGG5kr1uHUDJyMla5-072O1loT6M2XEKcXcqhME10fwkzz8fb7JXu5TnzcxoR					



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
F - A	2x4	DRY	No.2
A - C	2x6	DRY	No.2
D - C	2x4	DRY	No.2
F - D	2x6	DRY	No.2
ALL WEBS	2x4	DRY	No.2
EXCEPT			
E - 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		
F-A 1	12	TOP
C-D 1	12	TOP
A-C 2	12	SIDE(0.0)
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F-D 2	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	6	
2x4 1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING. 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	TMWV-I	MT20	6.0	9.0	2.75 Edge
B	TMWV-w	MT20	3.0	6.0	
C	TMWV-I	MT20	6.0	9.0	2.75 Edge
D	BMV1+p	MT20	3.0	6.0	
E	BMWVW-I	MT20	7.0	12.0	3.25 8.00
F	BMV1+p	MT20	3.0	6.0	

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG	IN-SX	BRG	IN-SX
F	3635	0	3635	0	0	5-8	5-8		
D	4589	0	4589	0	0	MECHANICAL			

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

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
2708	1521/0	521/0	0/0	0/0	668/0	0/0
3408	1802/0	668/0	0/0	0/0	839/0	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 = 2.17 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LOAD LC1	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LOAD LC1	MAX. LOAD LC1
FR-TO				FR-TO			
F-A	-3289/0	0.0	0.0 0.16 (1)	A-E	0/11088	0.89 (1)	0.89 (1)
A-G	-10808/0	-102.1	-102.1 0.95 (1)	E-B	-4629/0	0.89 (1)	0.89 (1)
G-H	-10808/0	-102.1	-102.1 0.95 (1)	B-C	-4629/0	0.89 (1)	0.89 (1)
H-B	-10808/0	-102.1	-102.1 0.95 (1)	C-D	-4629/0	0.89 (1)	0.89 (1)
B-I	-10808/0	-102.1	-102.1 0.89 (1)	D-E	-4629/0	0.89 (1)	0.89 (1)
I-J	-10808/0	-102.1	-102.1 0.89 (1)	J-K	-10808/0	-102.1	-102.1 0.89 (1)
J-K	-10808/0	-102.1	-102.1 0.89 (1)	K-C	-10808/0	-102.1	-102.1 0.89 (1)
K-C	-10808/0	-102.1	-102.1 0.89 (1)	C-D	-4204/0	0.0	0.0 0.21 (1)
D-C	-4204/0	0.0	0.0 0.21 (1)				
F-E	0/0	-38.5	-38.5 0.45 (1)				
E-D	0/0	-38.5	-38.5 0.45 (1)				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR	TOTAL
G	1-4-4	-289	-289		TOP	VERT	TOTAL
H	3-4-4	-2363	-2363		TOP	VERT	TOTAL
I	5-4-4	-1374	-1374		TOP	VERT	TOTAL
J	7-4-4	-1374	-1374		FRONT	VERT	TOTAL
K	9-4-4	-1390	-1390		FRONT	VERT	TOTAL

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 28.0 PSF

DL = 8.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2018, OBC 2012

- CSA 086-09, CSA 086-14

- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.33")

CALCULATED VERT. DEFL.(LL) = L/662 (0.18")

ALLOWABLE DEFL.(TL) = L/360 (0.33")

CALCULATED VERT. DEFL.(TL) = L/399 (0.30")

CSI: TC=0.95/1.00 (A-B:1), BC=0.45/1.00 (E-F:1), WB=0.89/1.00 (A-E:1), SS=0.81/1.00 (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)
MT20	618	354	1667
	768	1987	1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

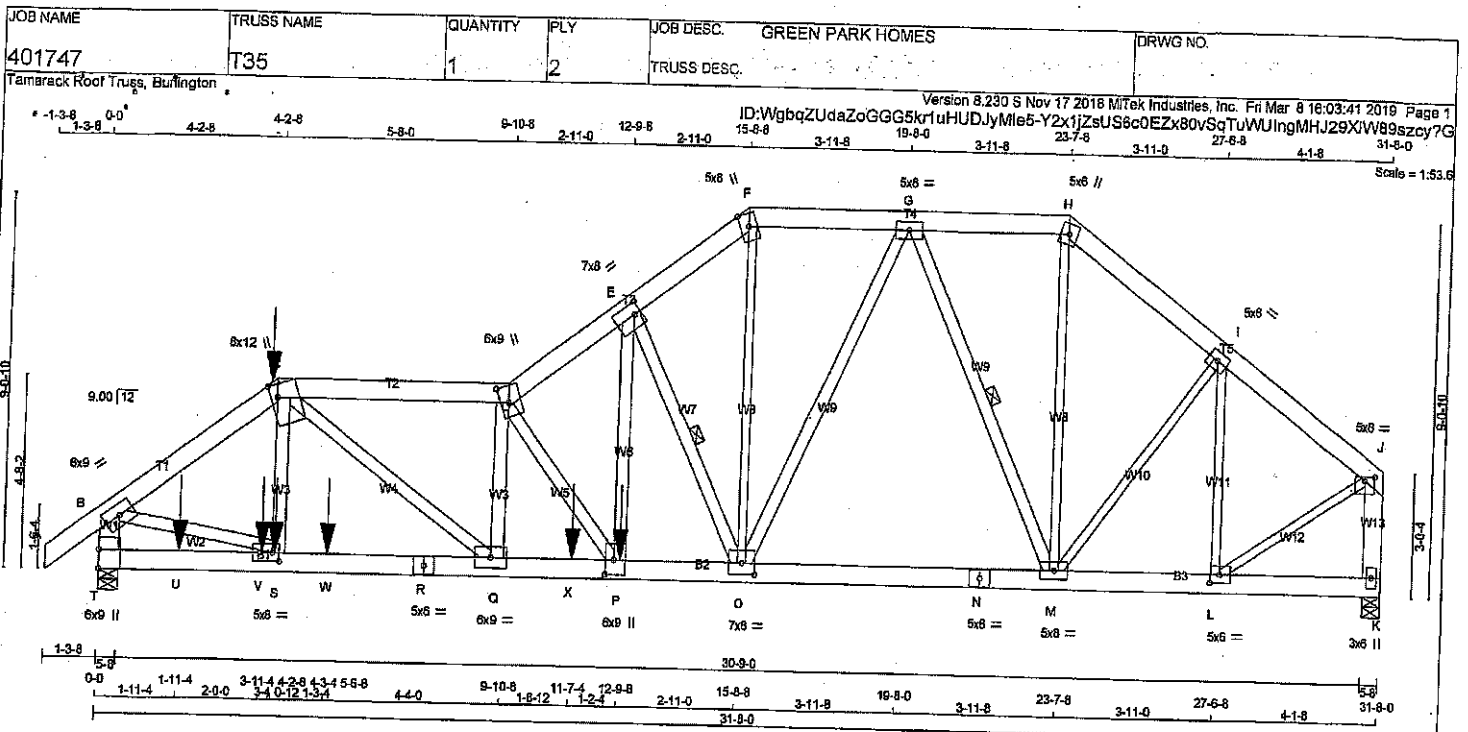
JSI GRIP= 0.84 (E) (INPUT = 0.90)

JSI METAL= 0.86 (A) (INPUT = 1.00)

DRWG NO. TAM T1905228

STRUCTURAL

COMPONENT ONLY



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x6	DRY	No.2	SPF
C - D	2x6	DRY	No.2	SPF
D - F	2x6	DRY	No.2	SPF
F - H	2x6	DRY	No.2	SPF
H - J	2x6	DRY	No.2	SPF
T - B	2x6	DRY	No.2	SPF
K - J	2x6	DRY	No.2	SPF
T - R	2x6	DRY	1850F 1.5E	SPF
R - N	2x6	DRY	1850F 1.5E	SPF
N - K	2x6	DRY	1850F 1.5E	SPF
ALL WEBS EXCEPT	2x4	DRY	No.2	SPF
O - F	2x3	DRY	No.2	SPF
M - H	2x3	DRY	No.2	SPF
L - I	2x3	DRY	No.2	SPF
L - J	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS: (0.122'X3") SPIRAL NAILS		
A-C	12	SIDE(122.0)
C-D	12	SIDE(61.0)
D-F	12	TOP
F-H	12	TOP
H-J	12	TOP
T-B	12	TOP
K-J	12	TOP
BOTTOM CHORDS: (0.122'X3") SPIRAL NAILS		
T-R	12	SIDE(183.1)
R-N	12	SIDE(183.1)
N-K	12	TOP
WEBS: (0.122'X3") SPIRAL NAILS		
2x3	8	
2x4	8	
E-P	3	SIDE(698.7)

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
B	TW4-MT20	8.0	9.0		
C	TW4-MT20	8.0	12.0	3.75	2.00
D	TW4-MT20	8.0	9.0	4.75	2.25
E	TW4-MT20	7.0	8.0	3.25	2.00
F	TW4-MT20	5.0	8.0	Edge	
G	TW4-MT20	5.0	8.0		
H	TW4-MT20	5.0	8.0		
I	TW4-MT20	5.0	8.0		

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
T	7403	7403	0	5-8
K	4834	4834	0	5-8

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN. COMPONENT REACTIONS
T	5482	3182 / 0
K	3588	2033 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.07 FT.
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, G-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	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	FACTORED LC1 MAX. (LBS)	MAX. UNBRACED LENGTH (FT)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)
FR-TO					FR-TO		
A-B	0 / 44	-102.1	-102.1	0.04 (1)	10.00	S-C	-340 / 45
B-C	-9942 / 0	-102.1	-102.1	0.20 (1)	3.95	C-Q	0 / 7829
C-D	-13365 / 0	-102.1	-102.1	0.43 (1)	3.07	Q-D	-3588 / 0
D-E	-12873 / 0	-102.1	-102.1	0.29 (1)	3.23	D-P	-5536 / 0
E-F	-8589 / 0	-102.1	-102.1	0.18 (1)	4.03	P-E	0 / 9491
F-G	-6927 / 0	-102.1	-102.1	0.15 (1)	4.44	E-O	-8025 / 0
G-H	-4056 / 0	-102.1	-102.1	0.11 (1)	5.55	O-F	0 / 4738
H-I	-5059 / 0	-102.1	-102.1	0.10 (1)	5.11	M-H	0 / 2616
I-J	-4198 / 0	-102.1	-102.1	0.09 (1)	5.50	M-I	0 / 1126
T-B	-7403 / 0	0.0	0.0	0.26 (1)	5.51	L-I	-1882 / 0
K-J	-4763 / 0	0.0	0.0	0.24 (1)	6.64	B-S	0 / 7738
T-U	0 / 0	-38.5	-38.5	0.13 (1)	10.00	L-J	0 / 2830
U-V	0 / 0	-38.5	-38.5	0.13 (1)	10.00	O-G	0 / 3351
V-S	0 / 0	-38.5	-38.5	0.13 (1)	10.00	G-M	-385 / 0
S-W	0 / 7118	-38.5	-38.5	0.45 (1)	10.00		
W-R	0 / 7118	-38.5	-38.5	0.45 (1)	10.00		
R-Q	0 / 7118	-38.5	-38.5	0.45 (1)	10.00		
Q-X	0 / 13480	-38.5	-38.5	0.87 (1)	10.00		
X-P	0 / 13480	-38.5	-38.5	0.87 (1)	10.00		
P-O	0 / 10317	-38.5	-38.5	0.55 (1)	10.00		
O-N	0 / 5556	-38.5	-38.5	0.33 (1)	10.00		
N-M	0 / 5556	-38.5	-38.5	0.33 (1)	10.00		
M-L	0 / 3367	-38.5	-38.5	0.15 (1)	10.00		
L-K	0 / 0	-38.5	-38.5	0.02 (3)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.
C	4-2-8	-499	-499		FRONT	VERT
P	12-9-8	-4530	-4530		FRONT	VERT
S	4-3-4	-43	-43		FRONT	VERT
U	1-11-4	-54	-54		FRONT	VERT
V	3-11-4	-43	-43		FRONT	VERT
W	5-8-8	-1088	-1088		FRONT	VERT
X	11-7-4	-1382	-1382		FRONT	VERT

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012
- CSA C88-08, CSA C88-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.06")
CALCULATED VERT. DEFL. (LL) = L/999 (0.25")
ALLOWABLE DEFL. (TL) = L/360 (1.06")
CALCULATED VERT. DEFL. (TL) = L/929 (0.41")

CSI: TC=0.43/1.00 (C-D-1), BC=0.87/1.00 (P-Q-1),
WB=0.97/1.00 (E-O-1), SB=0.33/1.00 (Q-S-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1655

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (S) (INPUT = 0.90)
JSI METAL= 0.78 (P) (INPUT = 1.00)

DWG NO. TAM 17905229
STRUCTURAL
COMPONENT ONLY 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401747	T35	1	2	TRUSS DESC.		

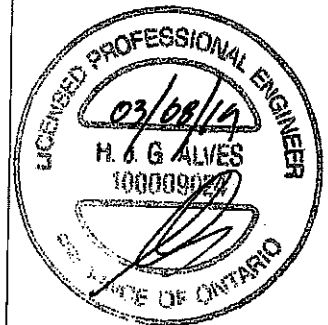
Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Fri Mar 8 18:03:41 2019 Page 2
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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
J	TMVV-p	MT20	5.0	6.0	1.25	3.00
K	BMV1+p	MT20	3.0	6.0		
L	BMWW-t	MT20	5.0	6.0	2.50	2.75
M	BMWW-t	MT20	5.0	6.0		
N	BS-t	MT20	5.0	6.0		
O	BMWW-t	MT20	7.0	6.0	3.25	4.00
P	BMWW-t	MT20	6.0	9.0	4.25	2.50
Q	BMWW-t	MT20	6.0	9.0		
R	BS-t	MT20	5.0	6.0		
S	BMWW-t	MT20	5.0	6.0	2.50	2.00
T	BMV1-t	MT20	6.0	9.0	5.50	

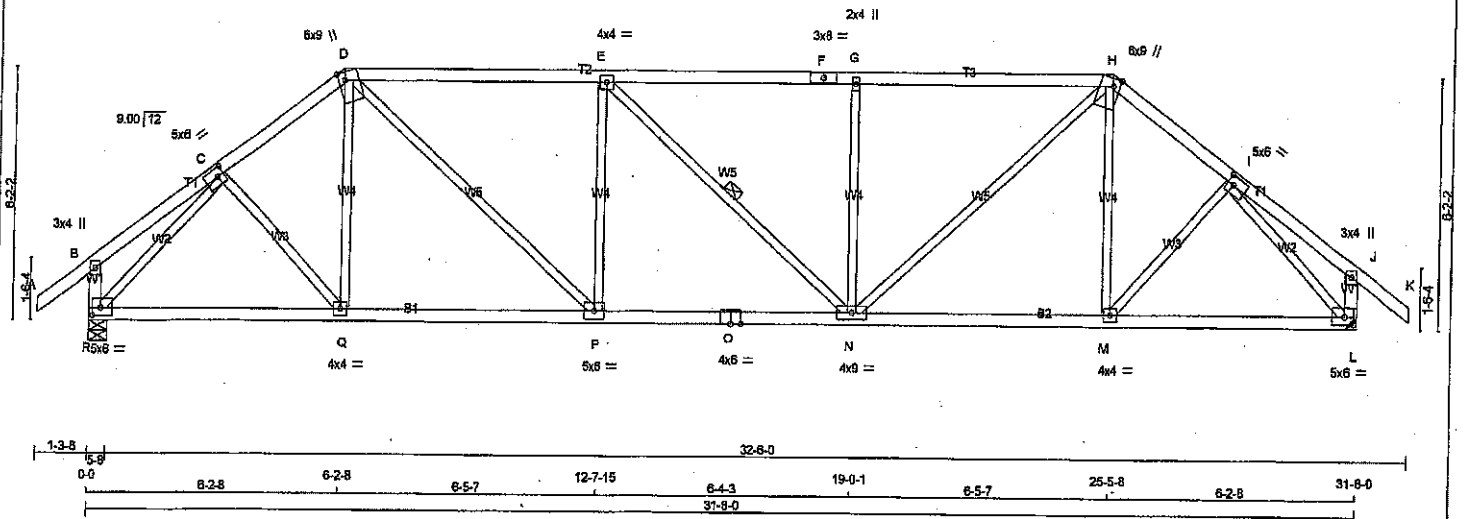
Edge - INDICATES REFERENCE CORNER OF PLATE
TOUCHES EDGE OF CHORD.



DWG NO. TAM 77905224
STRUCTURAL
COMPONENT ONLY 7/2

JOB NAME 401747	TRUSS NAME T36	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 6.230 S Nov 17 2018 MITek Industries, Inc. Fri Mar 8 16:03:42 2019 Page 1 ID:WgboZUdaZoGGG5kr1uHJyMie5-0FVPxv7DQktsjWkadz3762Xk84L0n7IlyGiltzcy?F	

Scale = 1:54.2



TOTAL WEIGHT = 185 lb

LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - D 2x4 DRY No.2 SPF

D - F 2x4 DRY No.2 SPF

F - H 2x4 DRY No.2 SPF

H - K 2x4 DRY No.2 SPF

R - B 2x4 DRY No.2 SPF

L - J 2x4 DRY No.2 SPF

R - O 2x4 DRY No.2 SPF

O - L 2x4 DRY No.2 SPF

ALL WEBS 2x3 DRY No.2 SPF

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE PLATES

B TMV+p MT20 3.0 4.0

C TMVW+ MT20 5.0 6.0 2.50 2.00

D TMVW+m MT20 6.0 9.0 Edge 2.00

E TMVW+ MT20 4.0 4.0

F TS-1 MT20 3.0 8.0

G TMVW+ MT20 2.0 4.0

H TMVW+m MT20 6.0 9.0 Edge 2.00

I TMVW+ MT20 5.0 6.0 2.50 2.00

J TMV+p MT20 3.0 4.0

L BMVW+1 MT20 5.0 6.0 2.25 2.50

M BMVW+ MT20 4.0 4.0

N BMVW+ MT20 4.0 9.0

O BS-1 MT20 4.0 6.0

P BMVW+ MT20 5.0 6.0

Q BMVW+ MT20 4.0 4.0

R BMVW+1 MT20 5.0 6.0 2.25 2.50

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 REQD

GROSS REACTION GROSS REACTION BRG BRG

JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX

R 2387 0 2387 0 0 5-8 5-8

L 2387 0 2387 0 0 MECHANICAL

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT L. MINIMUM

BEARING LENGTH AT JOINT L = 3-8.

UNFACTORED REACTIONS

1ST LCASE MAX/MIN COMPONENT REACTIONS

JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL

R 1760 999 / 0 333 / 0 0 / 0 0 / 0 428 / 0 0 / 0

L 1760 999 / 0 333 / 0 0 / 0 0 / 0 428 / 0 0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.14 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.

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

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN

THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1 MAX (LBS)	MAX. UNBRACED LENGTH (FT)	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)
FR-TO						FR-TO			
A-B	0 / 42	-102.1	-102.1	0.14 (1)	10.00	C-Q	0 / 248	0.05 (2)	10.00
B-C	0 / 18	-102.1	-102.1	0.13 (1)	10.00	Q-D	0 / 207	0.05 (3)	10.00
C-D	-2425 / 0	-102.1	-102.1	0.20 (1)	4.25	D-P	0 / 1405	0.32 (1)	10.00
D-E	-2382 / 0	-102.1	-102.1	0.20 (1)	3.14	P-E	-707 / 0	0.43 (1)	10.00
E-F	-2381 / 0	-102.1	-102.1	0.20 (1)	3.14	E-N	-2 / 0	0.00 (1)	10.00
F-G	-2381 / 0	-102.1	-102.1	0.20 (1)	3.14	N-G	-707 / 0	0.43 (1)	10.00
G-H	-2381 / 0	-102.1	-102.1	0.20 (1)	3.16	H-N	0 / 1403	0.32 (1)	10.00
H-I	-2425 / 0	-102.1	-102.1	0.20 (1)	4.25	M-H	0 / 207	0.05 (3)	10.00
I-J	0 / 18	-102.1	-102.1	0.13 (1)	10.00	M-I	0 / 248	0.05 (2)	10.00
J-K	0 / 42	-102.1	-102.1	0.14 (1)	10.00	R-C	-2685 / 0	0.93 (1)	10.00
R-B	-269 / 0	0.0	0.0	0.03 (1)	7.81	L-L	-2685 / 0	0.93 (1)	10.00
L-J	-269 / 0	0.0	0.0	0.03 (1)	7.81				
R-Q	0 / 1760	-38.5	-38.5	0.51 (2)	10.00				
Q-P	0 / 1923	-38.5	-38.5	0.54 (2)	10.00				
P-O	0 / 2082	-38.5	-38.5	0.63 (1)	10.00				
O-N	0 / 2082	-38.5	-38.5	0.63 (1)	10.00				
N-M	0 / 1923	-38.5	-38.5	0.54 (2)	10.00				
M-L	0 / 1761	-38.5	-38.5	0.52 (2)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 29.0 PSF

DL = 6.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 52.5 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, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012

- CSA 086-09, CSA 086-14

- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.06")

CALCULATED VERT. DEFL.(LL) = L/999 (0.15")

ALLOWABLE DEFL.(TL) = L/360 (1.06")

CALCULATED VERT. DEFL.(TL) = L/999 (0.26")

CSI: TC=0.90/1.00 (D-E-1), BC=0.63/1.00 (N-P-1),

WB=0.93/1.00 (L-1), SS=0.91/1.00 (D-E-1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 618 354 1697 788 1697 1655

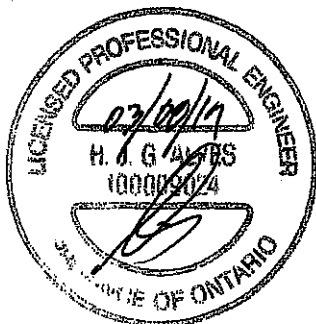
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.76 (O) (INPUT = 1.00)

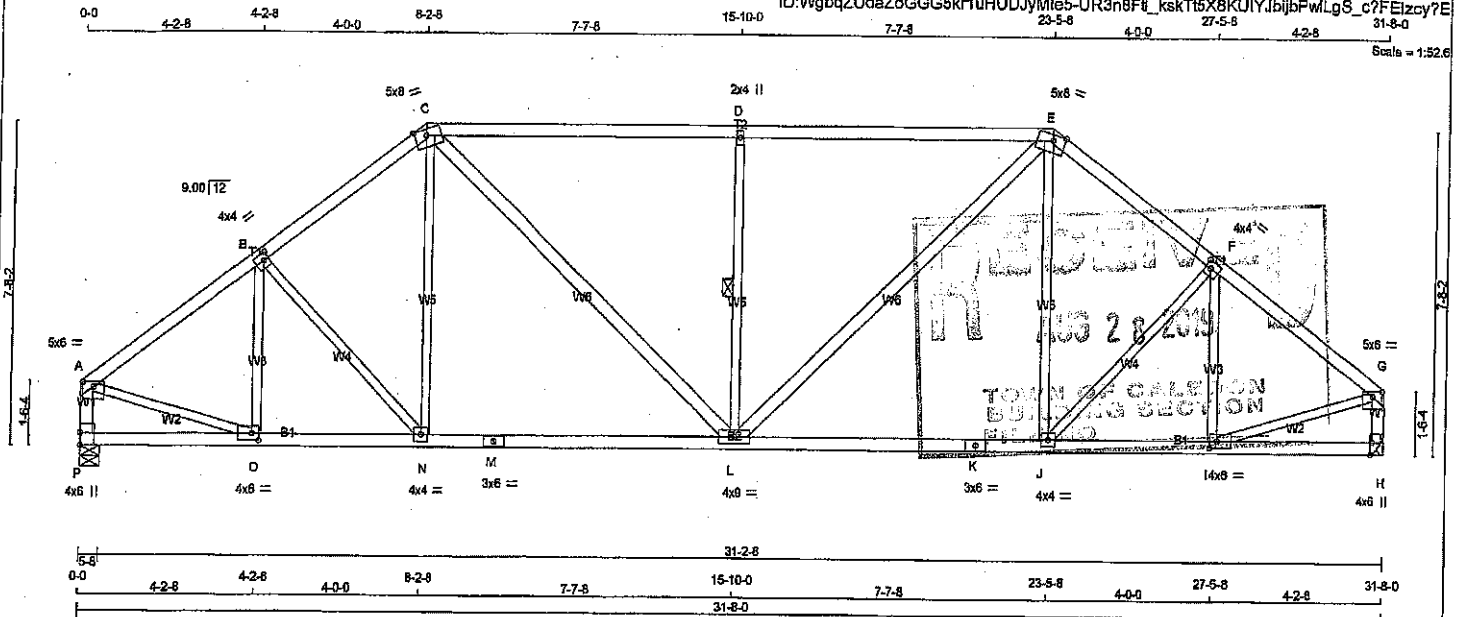
DWG NO. TAM 17905230
STRUCTURAL
COMPONENT ONLY



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401747	T37	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMWW-p	MT20	5.0	6.0	1.50	3.00
B	TMWW-l	MT20	4.0	4.0	2.00	1.50
C	TTWW-m	MT20	5.0	8.0	Edge	3.50
D	TMWW-w	MT20	2.0	4.0		
E	TTWW-m	MT20	5.0	8.0	Edge	3.50
F	TMWW-l	MT20	4.0	4.0	2.00	1.50
G	TMWW-p	MT20	5.0	6.0	1.50	3.00
H	BMV1-l	MT20	4.0	6.0	Edge	0.50
I	BMWW-l	MT20	4.0	6.0	2.00	2.00
J	BMWW-l	MT20	4.0	4.0		
K	BS-l	MT20	3.0	6.0		
L	BMWW-l	MT20	4.0	9.0		
M	BS-l	MT20	3.0	6.0		
N	BMWW-l	MT20	4.0	4.0		
O	BMWW-l	MT20	4.0	6.0	2.00	2.00
P	BMV1-l	MT20	4.0	6.0	3.50	

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	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
P	2226	0	2226	0
H	2226	0	2226	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE	
P	1664	919 / 0	333 / 0	0 / 0	412 / 0
H	1664	919 / 0	333 / 0	0 / 0	412 / 0

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

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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF DL.

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	MAX. FACTORED
MEMB.	FORCE (LBS)	FORCE (LBS)
FR-TO	VERT. LOAD (LBS)	MAX. UNBRACED LENGTH (FT)
A-B	-2372 / 0	4.22
B-C	-2350 / 0	4.24
C-D	-2511 / 0	2.94
D-E	-2511 / 0	2.94
E-F	-2380 / 0	4.24
F-G	-2372 / 0	4.22
G-H	-2162 / 0	5.78
H-G	-2152 / 0	5.78
P-O	0 / 0	10.00
O-N	0 / 1920	10.00
N-M	0 / 1857	10.00
M-L	0 / 1857	10.00
L-K	0 / 1857	10.00
K-J	0 / 1857	10.00
J-I	0 / 1920	10.00
I-H	0 / 0	10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	29.0	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	10.5	PSF
	DL	=	7.0	PSF
TOTAL LOAD	=	52.5	PSF.	

SPACING = 24.0 IN. C/C

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

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

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (1.06")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.12")
ALLOWABLE DEFL.(TL) = $L/360$ (1.06")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.22")

CSI: TC=0.95/1.00 (C-D:1), BC=0.61/1.00 (L-N:2),
WB=0.45/1.00 (A-C:1), SS=0.38/1.00 (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.

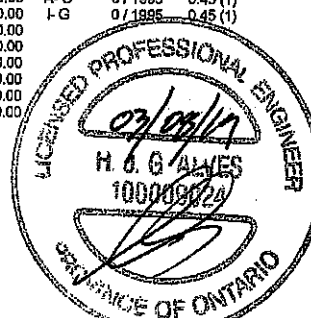
NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354
	1987	1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (G) (INPUT = 0.90)
JSI METAL= 0.64 (K) (INPUT = 1.00)



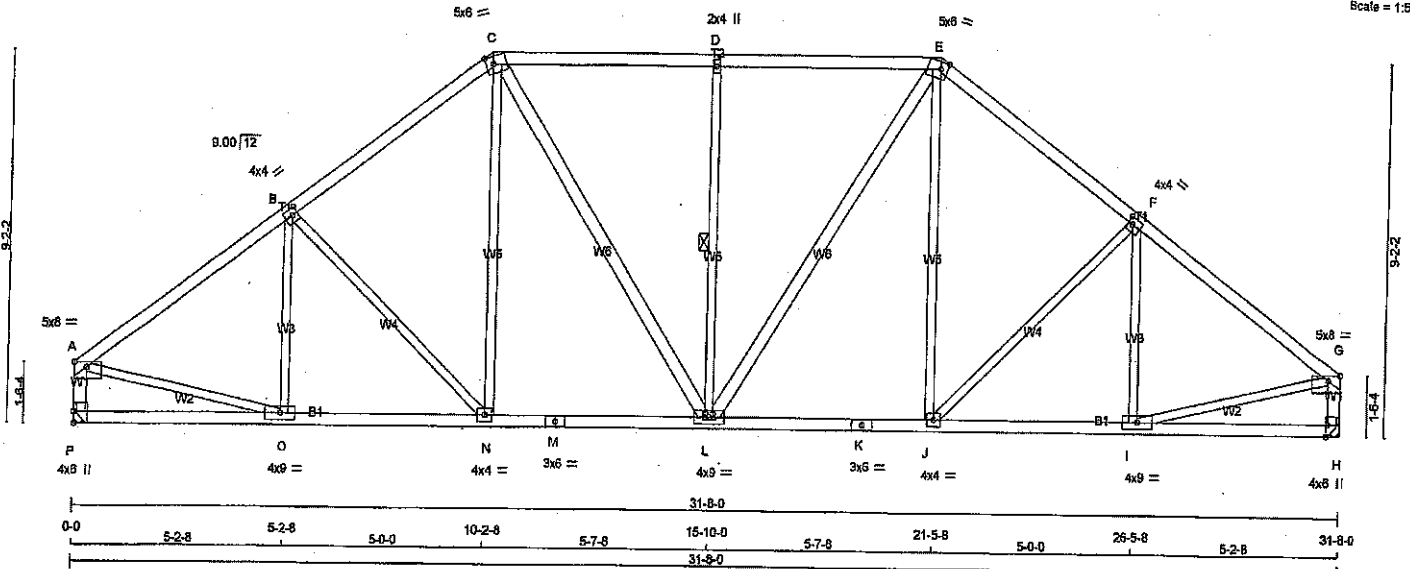
DRWG NO. TAM 17405231
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401747	T38	1	1	TRUSS DESC.		

Tamarack Roof Truss® Burlington

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0-0 5-2-8 5-2-8 5-0-0 10-2-8 5-7-8 15-10-0 5-7-8 21-5-8 5-0-0 26-5-8 5-2-8 31-8-0
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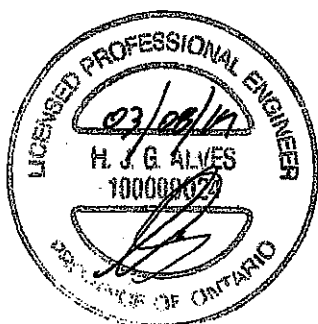
Tamarack Roof Truss, Burlington



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

CHORDS				WEBS			
MEMB.	MAX. FORCE FACTORED (LBS)	FACTORED VERT. LOAD (PLF)	LOC.1 MAX CSI (LC)	MAX. UNGRAC LENGTH	MEMB.	MAX. FORCE FACTORED (LBS)	MAX CSI (LC)
R-TO	FROM	TO			FR-TO		
A-B	-2458 / 0	-102.1	-102.1 0.67 (1)	3.72	M-B	-126 / 159	0.08 (1)
B-C	-2071 / 0	-102.1	-102.1 0.80 (1)	4.07	B-D	-529 / 0	0.28 (1)
C-D	-1629 / 0	-102.1	-102.1 0.18 (1)	5.02	L-C	0 / 835	0.13 (1)
D-E	-1629 / 0	-102.1	-102.1 0.18 (1)	5.02	L-D	-229 / 0	0.15 (1)
E-F	-2071 / 0	-102.1	-102.1 0.80 (1)	4.07	D-I	-229 / 0	0.15 (1)
F-G	-2458 / 0	-102.1	-102.1 0.67 (1)	3.72	J-E	0 / 835	0.13 (1)
A-G	-2128 / 0	0.0	0.0 0.22 (1)	5.81	J-F	-529 / 0	0.28 (1)
B-G	-2128 / 0	0.0	0.0 0.22 (1)	5.81	I-F	-126 / 159	0.08 (1)
A-M	0 / 0	-38.5	-38.5 0.26 (3)	10.00	A-M	0 / 2037	0.46 (1)
B-L	0 / 2001	-38.5	-38.5 0.52 (2)	10.00	I-G	0 / 2037	0.46 (1)
A-K	0 / 1702	-38.5	-38.5 0.47 (2)	10.00			
B-J	0 / 1702	-38.5	-38.5 0.47 (2)	10.00			
A-I	0 / 2001	-38.5	-38.5 0.52 (2)	10.00			
B-H	0 / 0	-38.5	-38.5 0.26 (3)	10.00			

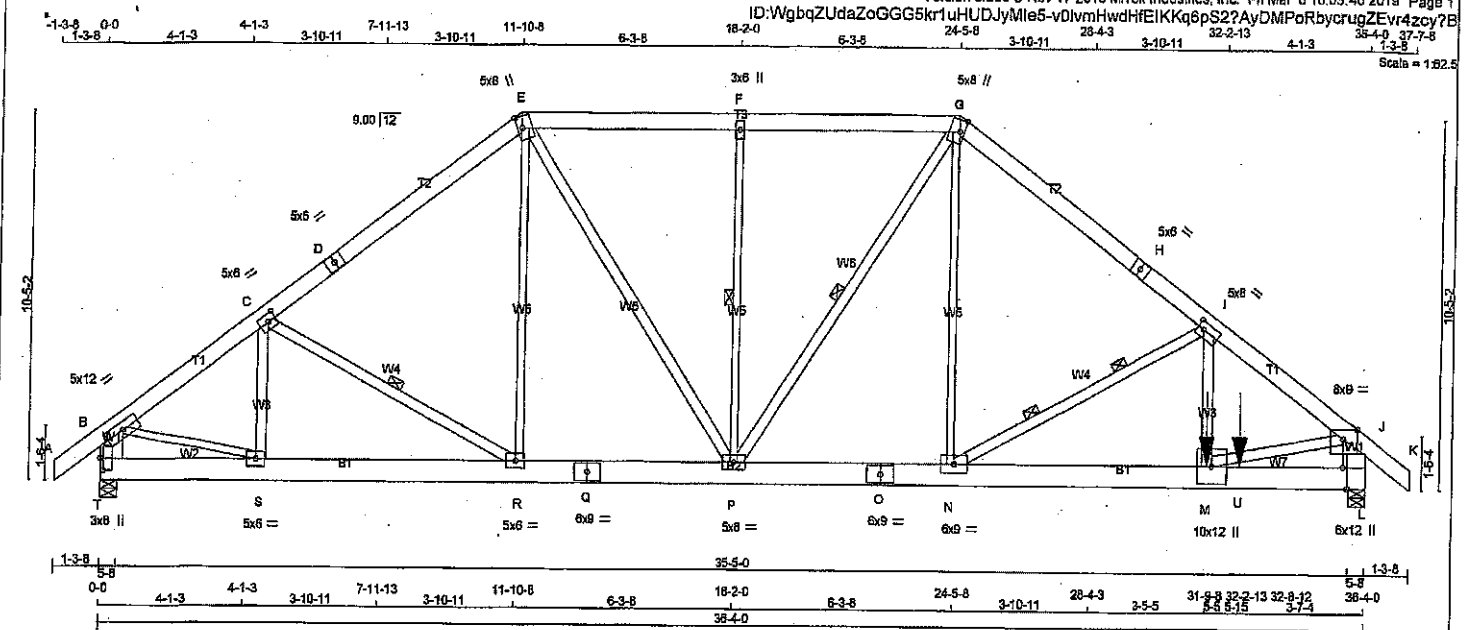
DWG NO. TAM 77905233
STRUCTURAL
COMPONENT ONLY



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401747	T40	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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38-4-0 37-7-8 1-3-8
Scale = 1:82.5



TOTAL WEIGHT = 2 X 256 = 511 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - D	2x6	DRY	No.2	SPF
E - G	2x6	DRY	No.2	SPF
H - K	2x6	DRY	No.2	SPF
L - J	2x6	DRY	No.2	SPF
T - Q	2x6	DRY	No.2	SPF
O - L	2x6	DRY	No.2	SPF
ALL WEBS	2x4	DRY	No.2	SPF
EXCEPT				
R - E	2x3	DRY	No.2	SPF
N - G	2x3	DRY	No.2	SPF
B - S	2x3	DRY	No.2	SPF
P - F	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS: (0.122'X3") SPIRAL NAILS		
A-D 2	12	TOP
E-G 2	12	TOP
H-K 2	12	TOP
L-J 2	12	TOP
T-Q 2	12	TOP
O-L 2	12	TOP
BOTTOM CHORDS: (0.122'X3") SPIRAL NAILS		
S 2	12	TOP
R 2	12	TOP
Q 2	12	TOP
P 2	12	TOP
WEBS: (0.122'X3") SPIRAL NAILS		
W1 1	6	SIDE(183.1)
W2 2	2	SIDE(1589.1)
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 TRANSFERING. 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
B TMVW-I	MT20	5.0	12.0		
C TMVW-I	MT20	5.0	6.0	2.50	2.75
D TS-I	MT20	5.0	6.0		
E TMVW+m	MT20	5.0	6.0	4.00	1.50
F TMVW+m	MT20	5.0	6.0		
G TMVW+m	MT20	5.0	6.0	4.00	1.50
H TS-I	MT20	5.0	6.0		
I TMVW-I	MT20	5.0	6.0	2.50	2.25
J TMVW-p	MT20	8.0	9.0	3.25	4.50

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT VERT	3698	3698	0	5-8
T VERT	0	0	0	5-8
L VERT	10011	10011	0	5-8

UNFACTORED REACTIONS

1ST LCASE SNOW /MIN. COMPONENT REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
T	2747	1507 / 0	514 / 0	0 / 0	0 / 0	668 / 0	0 / 0
L	7418	4294 / 0	1942 / 0	0 / 0	0 / 0	1782 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) T, L
BEARING SIZE FACTOR = 1.15 AT JNT(S) L (BASED ON SUPPORT DEPTH = 1-8)

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.34 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-R, G-P, F-P.
2 LATERAL BRACE(S) AT 1/3 LENGTH OF I-N.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MAX. UNBRACED LENGTH (FT)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO	A-B	0 / 44	-102.1	-102.1	0.04 (1)	10.00	S-C	-530 / 0	0.06 (1)
	B-C	-4284 / 0	-102.1	-102.1	0.20 (1)	5.33	C-R	-220 / 0	0.04 (1)
	C-D	-4153 / 0	-102.1	-102.1	0.24 (1)	5.38	R-E	0 / 465	0.06 (2)
	D-E	-4153 / 0	-102.1	-102.1	0.24 (1)	5.38	N-G	0 / 3317	0.41 (1)
	E-F	-4234 / 0	-102.1	-102.1	0.20 (1)	5.36	N-I	-5929 / 0	0.57 (1)
	F-G	-4234 / 0	-102.1	-102.1	0.20 (1)	5.36	M-I	0 / 8103	0.54 (1)
	G-H	-5689 / 0	-102.1	-102.1	0.31 (1)	4.88	B-S	0 / 3548	0.44 (1)
	H-I	-5689 / 0	-102.1	-102.1	0.31 (1)	4.88	M-J	0 / 9847	0.87 (1)
	I-J	-12020 / 0	-102.1	-102.1	0.34 (1)	3.34	P-G	-608 / 0	0.23 (1)
	J-K	0 / 44	-102.1	-102.1	0.04 (1)	10.00	E-P	0 / 175	0.03 (1)
	T-B	-3597 / 0	0.0	0.0	0.10 (1)	7.81	P-E	-749 / 0	0.23 (1)
	L-J	-9530 / 0	0.0	0.0	0.26 (1)	5.57			
	T-S	0 / 0	-38.5	-38.5	0.03 (1)	10.00			
	S-R	0 / 3478	-38.5	-38.5	0.24 (1)	10.00			
	R-Q	0 / 3291	-38.5	-38.5	0.22 (1)	10.00			
	Q-P	0 / 3291	-38.5	-38.5	0.22 (1)	10.00			
	P-O	0 / 4580	-38.5	-38.5	0.28 (1)	10.00			
	O-N	0 / 4580	-38.5	-38.5	0.28 (1)	10.00			
	N-M	0 / 9646	-38.5	-38.5	0.61 (1)	10.00			
	M-U	0 / 0	-38.5	-38.5	0.37 (1)	10.00			
	U-L	0 / 0	-38.5	-38.5	0.37 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.
M	31-9-8	-6717	-6717		BACK	VERT
U	32-8-12	-1591	-1591		BACK	VERT

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	28.0	PSF
DL	=	8.0	PSF
BOT CH. LL	=	10.5	PSF
DL	=	7.0	PSF
TOTAL LOAD	=	52.5	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
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL (LL) = L/360 (1.21")
CALCULATED VERT. DEFL (LL) = 1/999 (0.11")
ALLOWABLE DEFL (TL) = L/360 (1.21")
CALCULATED VERT. DEFL (TL) = 1/999 (0.18")

CSI: TO=0.34/1.00 (I-J-I), SC=0.61/1.00 (M-N-I),
WB=0.87/1.00 (J-M-I), SSI=0.38/1.00 (L-M-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 (PSI)	SECTION (PLI)
MT20	618	354
	1667	788
	1987	1858

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SI GRIP= 0.90 (I) (INPUT = 0.90)
SI METAL= 0.87 (M) (INPUT = 1.00)

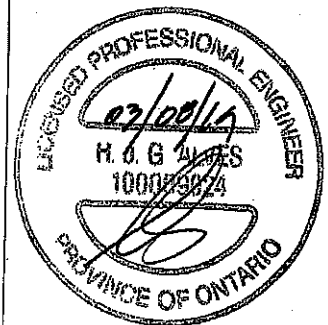
DRWG NO. TAM T905234
STRUCTURAL
COMPONENT ONLY

JOB NAME 401747 Tamarack Rd of Truss, Burlington	TRUSS NAME T40	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.				Version 8.230 S Nov 17 2018 MITek Industries, Inc. Fri Mar 8 18:03:46 2019 Page 2 ID:VgbcZUdaZoGGG5kr1uHUDJyMle5-v0lvmHwdHfEIKKq8pS2?AyDMPoRbycrugZEyr4zcy?B	

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
L	BMV1+H	MT20	6.0	12.0	Edge	1.25
M	BMWW+H	MT20	10.0	12.0		
N	BMWW+L	MT20	8.0	9.0		
O	BS+L	MT20	8.0	9.0		
P	BMWWWW+L	MT20	5.0	8.0		
Q	BS+L	MT20	8.0	9.0		
R	BMWW+L	MT20	5.0	6.0		
S	BMWW+L	MT20	5.0	6.0		
T	BMV1+p	MT20	3.0	8.0	4.00	0.75

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

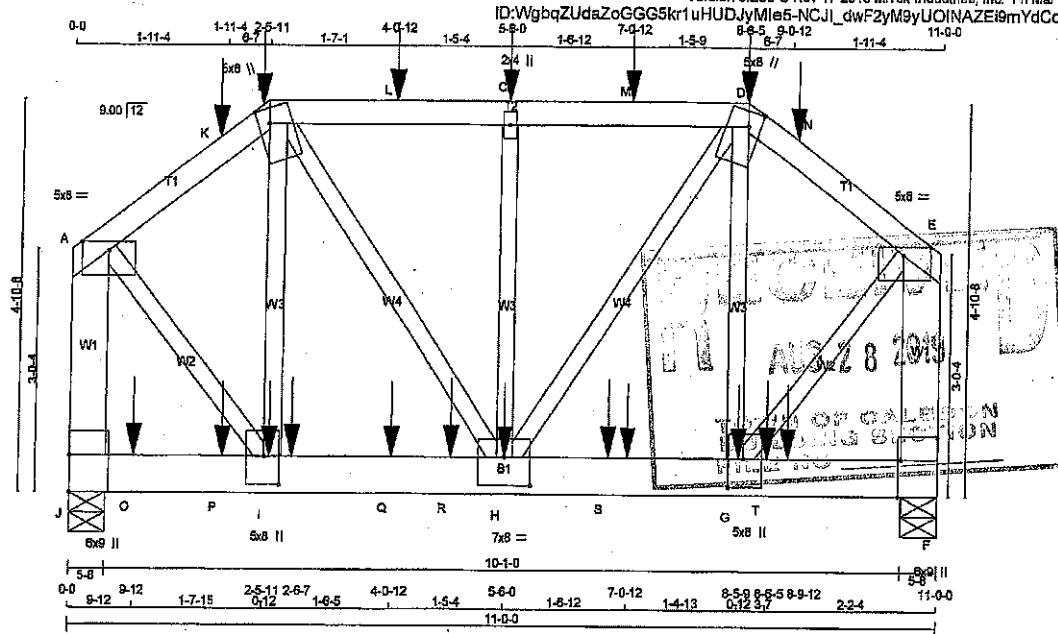


DWG NO. TAM 11905234
STRUCTURAL
COMPONENT ONLY 2/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401747	T41	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 67 = 133 LB

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

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122'X3') SPIRAL NAILS		
A-B	12	SIDE(61.0)
B-D	12	SIDE(61.0)
D-E	12	SIDE(61.0)
J-A	2	TOP
F-E	2	TOP
BOTTOM CHORDS : (0.122'X3') SPIRAL NAILS		
J-F	12	SIDE(163.1)
WEBS : (0.122'X3') SPIRAL NAILS		
I-B	2	SIDE(387.6)
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
A	TMVW-p	MT20	5.0	8.0	1.25	4.00
B	TTWW+m	MT20	5.0	8.0	2.25	1.75
C	TMVW+w	MT20	2.0	4.0		
D	TTWW+m	MT20	5.0	8.0	2.25	1.75
E	TMVW-p	MT20	5.0	8.0	1.25	4.00
F	BMV1+i	MT20	6.0	9.0	Edge	0.50
G	BMVWW+i	MT20	5.0	8.0	4.25	2.25
H	BMVWW+i	MT20	7.0	8.0	4.25	4.00
I	BMVWW+i	MT20	5.0	8.0	4.25	2.25
J	BMV1+i	MT20	6.0	9.0		5.50

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 GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	IN-SX	IN-SX
J	7109	0	5-8	5-8
F	5730	0	5-8	5-8

UNFACTORED REACTIONS	1ST CASE	MAX/MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
J	5289	2893 / 0	1003 / 0
F	4258	2428 / 0	793 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.52 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 MEMB. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRACED LENGTH	WEBS	MAX. FACTORED MEMB. FORCE (LBS)	MAX. CSI (LC)
FR-TO					FR-TO		
A-K	-3967 / 0	-102.1	-102.1	0.12 (1)	I-B	0 / 409	0.05 (1)
K-B	-3967 / 0	-102.1	-102.1	0.12 (1)	B-H	0 / 1943	0.24 (1)
B-L	-4263 / 0	-102.1	-102.1	0.13 (1)	H-C	-301 / 0	0.05 (1)
L-C	-4263 / 0	-102.1	-102.1	0.13 (1)	H-D	0 / 2101	0.26 (1)
C-M	-4263 / 0	-102.1	-102.1	0.13 (1)	G-D	0 / 322	0.03 (2)
M-D	-4263 / 0	-102.1	-102.1	0.13 (1)	A-I	0 / 4506	0.56 (1)
D-N	-3862 / 0	-102.1	-102.1	0.12 (1)	G-E	0 / 4506	0.56 (1)
N-E	-3862 / 0	-102.1	-102.1	0.12 (1)			
J-A	-5736 / 0	0.0	0.0	0.31 (1)			
F-E	-5588 / 0	0.0	0.0	0.30 (1)			
J-O	0 / 0	-38.5	-38.5	0.41 (1)			
O-P	0 / 0	-38.5	-38.5	0.41 (1)			
P-I	0 / 0	-38.5	-38.5	0.41 (1)			
I-Q	0 / 3175	-38.5	-38.5	0.44 (1)			
Q-R	0 / 3175	-38.5	-38.5	0.44 (1)			
R-H	0 / 3175	-38.5	-38.5	0.44 (1)			
H-S	0 / 3087	-38.5	-38.5	0.58 (1)			
S-G	0 / 3087	-38.5	-38.5	0.58 (1)			
G-T	0 / 0	-38.5	-38.5	0.25 (1)			
T-F	0 / 0	-38.5	-38.5	0.25 (1)			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	TOTAL	CONN.
B	2-5-11	-65	-65		BACK	VERT	TOTAL		
C	5-6-0	-4	-4		BACK	VERT	TOTAL		
D	8-6-5	-65	-65		BACK	VERT	TOTAL		
G	8-5-9	-2	-2		BACK	VERT	TOTAL		
H	5-6-0	-2	-2		BACK	VERT	TOTAL		
I	2-6-7	-2	-2		BACK	VERT	TOTAL		
K	1-11-4	-28	-28		FRONT	VERT	TOTAL		
L	4-0-12	-4	-4		BACK	VERT	TOTAL		
M	7-0-12	-4	-4		BACK	VERT	TOTAL		
N	9-0-12	-28	-28		BACK	VERT	TOTAL		
O	9-12	-2191	-2191		FRONT	VERT	TOTAL		
P	1-11-4	-2	-2		BACK	VERT	TOTAL		
Q	4-0-12	-2	-2		BACK	VERT	TOTAL		
R	4-8-12	-2188	-2188		FRONT	VERT	TOTAL		
S	6-8-12	-2188	-2188		FRONT	VERT	TOTAL		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN./C/C

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

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

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.37")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE VERT. DEFL.(TL) = L/360 (0.37")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.31/1.00 (A-J-1), BC=0.56/1.00 (G-H-1), WB=0.56/1.00 (A-I-1), SSI=0.76/1.00 (F-G-1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00

COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.57 (G) (INPUT = 1.00)

DWG NO. TAM P905235
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401747	T41	1	2	TRUSS DESC.		
Tamaack Roof Truss, Burlington				Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Fri Mar 8 18:03:47 2019 Page 2 ID:WgboZUdaZoGGG5kr1uHUDJvMle5-NCJI dwF2yM8yUOINAZEI9mYdCoeh8 1vDzTNVWzcy7A		

FACTORED CONCENTRATED LOADS (LBS)								
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL
S	7-0-12	-2	-2	—	BACK	VERT	TOTAL	—
T	8-9-12	-2329	-2329	—	FRONT	VERT	TOTAL	—
T	9-0-12	-2	-2	—	BACK	VERT	TOTAL	—



DWG NO. TAM 17905235
 STRUCTURAL
 COMPONENT ONLY *7/2*

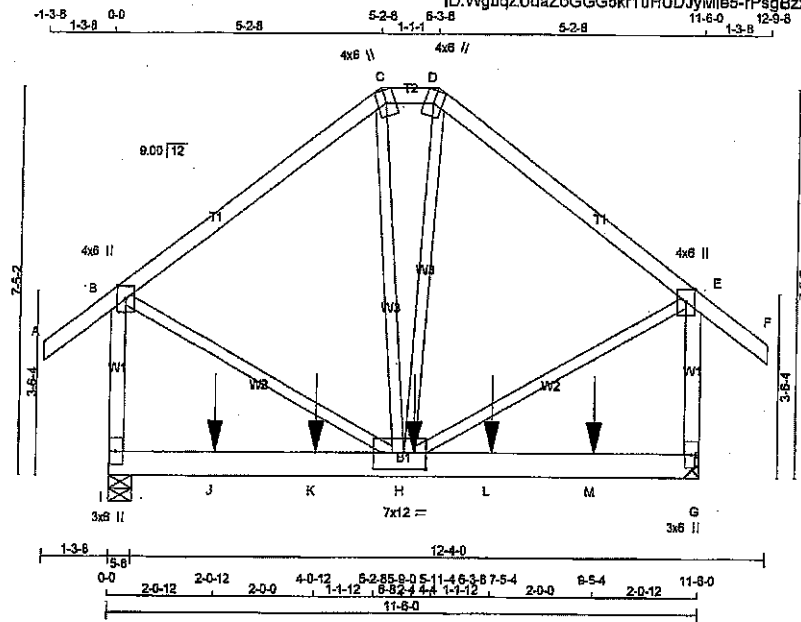
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401747	T42	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MITek Industries, Inc. Fri Mar 8 16:03:48 2019 Page 1

ID:WgbqZUdaZoGGG6kr1uHUDJyMle5-rPsgBzxpGU0aezUwt4TFNle0c9LQgeBBj0vycz99

Scale = 1:42.4



TOTAL WEIGHT = 68 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	8.0	Edge	
C	TTW+m	MT20	4.0	8.0		
D	TTW+m	MT20	4.0	8.0		
E	TMVW+p	MT20	4.0	8.0	Edge	
G	BMV1+p	MT20	3.0	8.0		
H	BMVWW+m	MT20	7.0	12.0	3.75	5.00
I	BMV1+p	MT20	3.0	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
I	1630	0	1630	0	5-8	5-8
G	1630	0	1630	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	COMBINED	MAX/MIN COMPONENT REACTIONS					
		1ST CASE	2ND CASE	3RD CASE	4TH CASE	5TH CASE	6TH CASE
I	1195	731 / 0	187 / 0	0 / 0	0 / 0	276 / 0	0 / 0
G	1195	731 / 0	187 / 0	0 / 0	0 / 0	276 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.43 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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 / 42	-102.1	-102.1 0.15 (1)	10.00	B-H	0 / 865	0.21 (1)
B-C	-940 / 0	-102.1	-102.1 0.59 (1)	5.43	H-E	0 / 865	0.21 (1)
C-D	-769 / 0	-102.1	-102.1 0.03 (1)	6.25	C-H	0 / 250	0.06 (2)
D-E	-940 / 0	-102.1	-102.1 0.59 (1)	5.43	H-D	0 / 250	0.06 (2)
E-F	0 / 42	-102.1	-102.1 0.15 (1)	10.00			
I-B	-1380 / 0	0.0	0.0 0.28 (1)	6.88			
G-E	-1380 / 0	0.0	0.0 0.28 (1)	6.88			
I-J	0 / 0	-38.5	-38.5 0.46 (1)	10.00			
J-K	0 / 0	-38.5	-38.5 0.46 (1)	10.00			
K-H	0 / 0	-38.5	-38.5 0.46 (1)	10.00			
H-L	0 / 0	-38.5	-38.5 0.46 (1)	10.00			
L-M	0 / 0	-38.5	-38.5 0.46 (1)	10.00			
M-G	0 / 0	-38.5	-38.5 0.46 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
JT	5-11.4	-281	-281		BACK	VERT	TOTAL		
H	2-0-12	-259	-259		BACK	VERT	TOTAL		
K	4-0-12	-281	-281		BACK	VERT	TOTAL		
L	7-5-4	-281	-281		BACK	VERT	TOTAL		
M	9-5-4	-259	-259		BACK	VERT	TOTAL		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	= 29.0	PSF
DL	= 6.0	PSF	
BOT CH.	LL	= 10.5	PSF
DL	= 7.0	PSF	
TOTAL LOAD	= 52.5	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
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.38")
CALCULATED VERT. DEFL.(LL) = $L/699$ (0.04")
ALLOWABLE DEFL.(TL) = $L/360$ (0.38")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.06")

CSI: TC=0.59/1.00 (D-E:1), BC=0.46/1.00 (H-I:1), WB=0.21/1.00 (E-H:1), SS=0.34/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

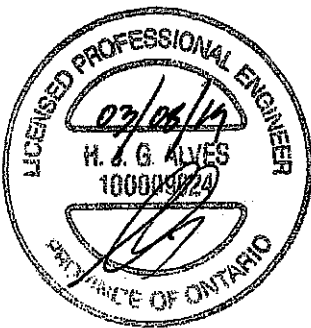
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	610	354	1667

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.82 (B) (INPUT = 0.90)
JSI METAL= 0.52 (E) (INPUT = 1.00)



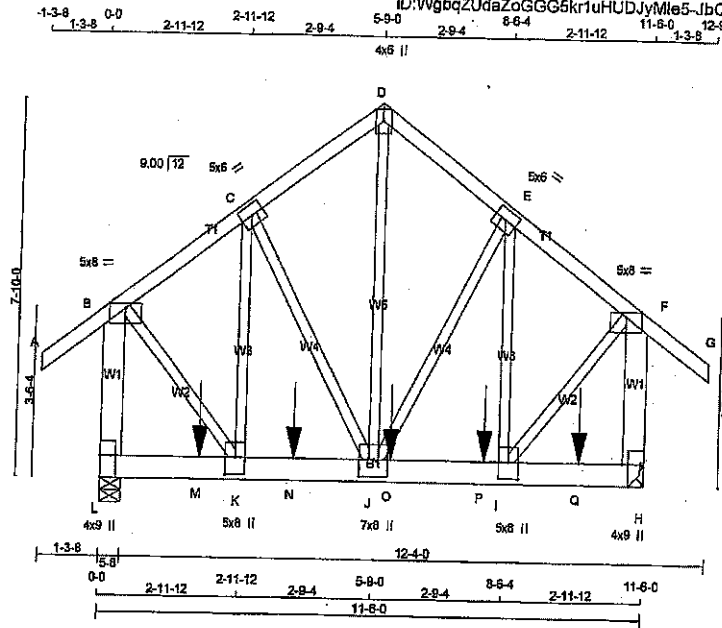
DRWG NO. TAM P2705236
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401747	T43	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Fri Mar 8 16:03:49 2019 Page 1
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Scale = 1:45.9



LUMBER

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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-D 1	12	TOP
D-G 1	12	TOP
L-B 2	12	TOP
H-F 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
L-H 2	12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
J-D 1	6	SIDE(387.6)
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
B TMVW-p	MT20	5.0	8.0	1.25	4.00
C TMVW-p	MT20	5.0	8.0		
D TTW-p	MT20	4.0	8.0	Edge	
E TMVW-p	MT20	5.0	8.0		
F TMVW-p	MT20	5.0	8.0	1.25	4.00
H BMV1-H	MT20	4.0	9.0	Edge	1.50
I BMVW-H	MT20	5.0	8.0	4.25	2.50
J BMVW-H	MT20	7.0	8.0	4.25	3.50
K BMVW-H	MT20	5.0	8.0	4.25	2.50
L BMV1-H	MT20	4.0	9.0	5.50	

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

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

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	DOWN	UPLIFT	IN-SX
L 6082	0	0	5-8
H 6755	0	0	5-8

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

UNFACTORED REACTIONS

1ST CASE	MAX/MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
L 4522	2571 / 0 852 / 0 0 / 0 0 / 0 1059 / 0 0 / 0
H 5023	2854 / 0 947 / 0 0 / 0 0 / 0 1221 / 0 0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORIZ. LOAD (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)
FR-TO						FR-TO			
A-B	0 / 42	-102.1	-102.1	0.08 (1)	10.00	J-D	0 / 3944	0.49 (1)	
B-C	-3736 / 0	-102.1	-102.1	0.13 (1)	4.78	J-E	-579 / 0	0.18 (1)	
C-D	-3513 / 0	-102.1	-102.1	0.11 (1)	4.92	J-F	0 / 404	0.05 (1)	
D-E	-3513 / 0	-102.1	-102.1	0.11 (1)	4.92	C-J	-409 / 0	0.10 (1)	
E-F	-3836 / 0	-102.1	-102.1	0.13 (1)	4.72	K-C	0 / 3944	0.49 (1)	
F-G	0 / 42	-102.1	-102.1	0.08 (1)	10.00	B-K	-579 / 0	0.18 (1)	
L-B	-5858 / 0	0.0	0.0	0.38 (1)	6.18	I-F	0 / 404	0.05 (1)	
H-F	-5788 / 0	0.0	0.0	0.39 (1)	6.12				
L-M	0 / 0	-38.5	-38.5	0.30 (1)	10.00				
M-K	0 / 0	-38.5	-38.5	0.30 (1)	10.00				
K-N	0 / 2995	-38.5	-38.5	0.49 (1)	10.00				
N-J	0 / 2995	-38.5	-38.5	0.49 (1)	10.00				
J-O	0 / 3073	-38.5	-38.5	0.49 (1)	10.00				
O-P	0 / 3073	-38.5	-38.5	0.49 (1)	10.00				
P-I	0 / 3073	-38.5	-38.5	0.49 (1)	10.00				
I-Q	0 / 0	-38.5	-38.5	0.48 (1)	10.00				
Q-H	0 / 0	-38.5	-38.5	0.48 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LOC1	MAX-	MAX+	FACE	DIR.	TOTAL
M	2-1-4	-2188	-2188		FRONT	VERT	TOTAL
N	4-1-4	-2188	-2188		FRONT	VERT	TOTAL
O	6-1-4	-2188	-2188		FRONT	VERT	TOTAL
P	8-1-4	-2188	-2188		FRONT	VERT	TOTAL
Q	10-1-4	-2188	-2188		FRONT	VERT	TOTAL

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.38")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL) = L/360 (0.38")
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.39/1.00 (F-H:1), BC=0.49/1.00 (J-K:1), WB=0.55/1.00 (F-I:1), SS=0.75/1.00 (L-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JST GRIP= 0.90 (K) (INPUT = 0.90)
SI METAL= 0.55 (I) (INPUT = 1.00)

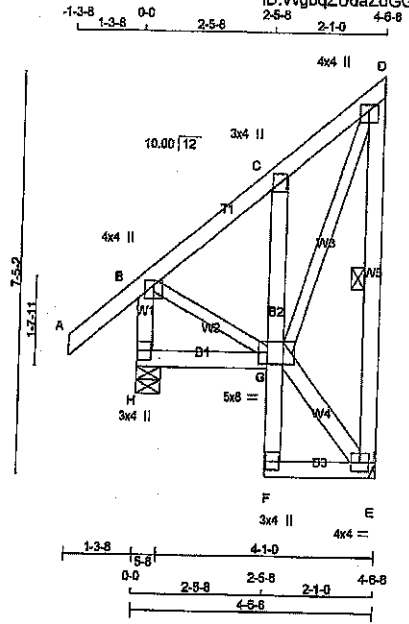
DRWG NO. TAM 77905237
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401747	T44S	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:41.0



LUMBER

N.L.G.A. RULES

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

ALL WEBS 2x3 DRY No.2

EXCEPT

G - E 2x4 DRY No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
C	TMV+p	MT20	3.0	4.0		
D	TMVW+p	MT20	4.0	4.0	1.25	2.00
E	BMVW1-t	MT20	4.0	4.0		
F	BMV+p	MT20	3.0	4.0		
G	BVMWWW-I	MT20	5.0	8.0	2.50	2.00
H	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
H	481	0	461	0
E	319	0	319	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN	COMPONENT REACTIONS	DEAD	SOIL
H	336	212 / 0	48 / 0	0 / 0	0 / 0
E	239	132 / 0	48 / 0	0 / 0	0 / 0

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

BRACING

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

MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRACED LENGTH FR-TO	MEMB.	WEBS MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
H-B	-411 / 0	0.0	0.0	0.04 (1)	7.81	B-G	0 / 137
A-B	0 / 45	-102.1	-102.1	0.14 (1)	10.00	G-E	-9 / 0
B-C	-145 / 0	-102.1	-102.1	0.08 (1)	6.25	G-D	0 / 313
C-D	-163 / 0	-102.1	-102.1	0.08 (1)	6.25		
E-D	-275 / 0	0.0	0.0	0.07 (1)	6.25		
H-G	0 / 0	-38.5	-38.5	0.06 (3)	10.00		
F-G	0 / 47	0.0	0.0	0.02 (1)	10.00		
G-C	-273 / 0	0.0	0.0	0.02 (1)	7.81		
F-E	0 / 6	-38.5	-38.5	0.03 (3)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 28.0 PSF
	DL = 6.0 PSF
BOT CH.	LL = 10.5 PSF
	DL = 7.0 PSF
TOTAL LOAD	= 52.5 PSF

SPACING = 24.0 IN. O.C.

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

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.14/1.00 (A-B:1), BC=0.06/1.00 (G-H:3),
WB=0.07/1.00 (D-G:1), GS=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

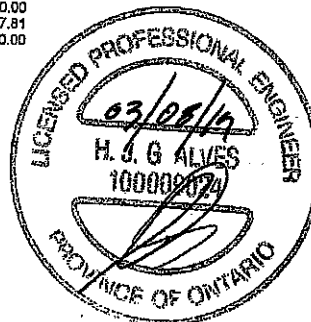
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1887 788 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 deg.

JSI GRIP= 0.42 (G) (INPUT = 0.90)
JSI METAL= 0.11 (G) (INPUT = 1.00)



DRWG NO. TAM 17905238
STRUCTURAL
CONNECTION ONLY

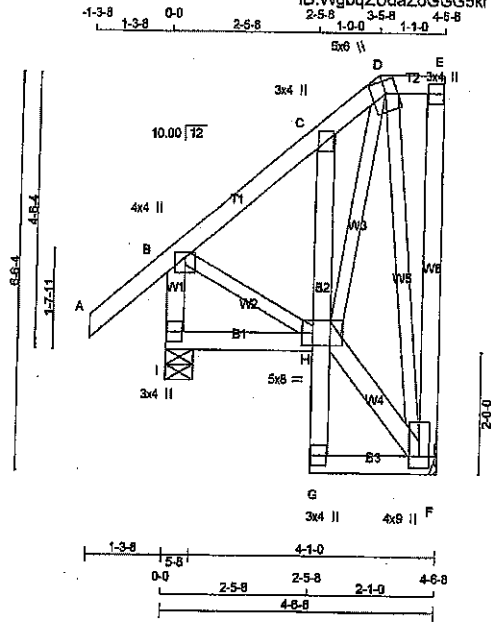
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401747	T45S	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

ID: VgbqZUdaZoGGG5kr1uHUDJyMle5-F_Yoq_m5BsbR53c0dAt7wFipHld2zdxrgxWHzoy?6

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Scale = 1:36.3



LUMBER

N. L. G. A. RULES

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

ALL WEBS	2x3	DRY	No.2
EXCEPT			
H - F	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
C	TMV+p	MT20	3.0	4.0		
D	TTWV+m	MT20	5.0	6.0	2.50	2.25
E	TMV+p	MT20	3.0	4.0		
F	BMVWW1+p	MT20	4.0	9.0	2.25	2.00
G	BMV+p	MT20	3.0	4.0		
H	BMVWWV-I	MT20	5.0	6.0	2.50	2.00
I	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	DOWN	IN-SX	IN-SX
F	319	0	0	MECHANICAL
I	461	0	0	5-8

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

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED						
F	236	132 / 0	48 / 0	0 / 0	0 / 0	59 / 0	0 / 0
I	336	212 / 0	48 / 0	0 / 0	0 / 0	76 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 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	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (L)	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (L)	MEMB. FR-TO
A-B	0 / 45	-102.1 -102.1	0.14 (1)	10.00	0 / 54	0.01 (1)	H-F
B-C	-143 / 0	-102.1 -102.1	0.08 (1)	6.25	0 / 305	0.07 (1)	H-D
C-D	-168 / 0	-102.1 -102.1	0.05 (1)	6.25	-272 / 0	0.17 (1)	D-F
D-E	0 / 0	-102.1 -102.1	0.02 (1)	10.00	0 / 133	0.03 (1)	B-H
F-E	-53 / 0	0.0 0.0	0.05 (1)	7.81			
I-B	-411 / 0	0.0 0.0	0.04 (1)	7.81			
I-H	0 / 0	-38.5 -38.5	0.05 (3)	10.00			
G-H	0 / 47	0.0 0.0	0.02 (1)	10.00			
H-C	-231 / 0	0.0 0.0	0.02 (1)	7.81			
G-F	0 / 7	-38.5 -38.5	0.03 (3)	10.00			

TOTAL WEIGHT = 2 X 41 = 82 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	28.0	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	10.5	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	52.5	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
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 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 (0.01")

CSI: TC=0.14/1.00 (A-B:1), BC=0.08/1.00 (H-I:3), WB=0.17/1.00 (D-F:1), SSI=0.08/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

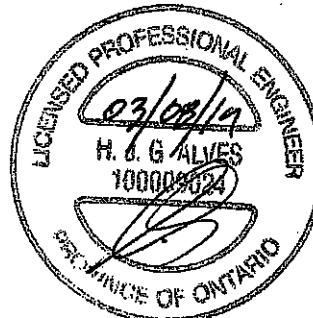
NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PL)
MT20	618	354 1867 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.37 (H) (INPUT = 0.50)
JSI METAL= 0.09 (H) (INPUT = 1.00)

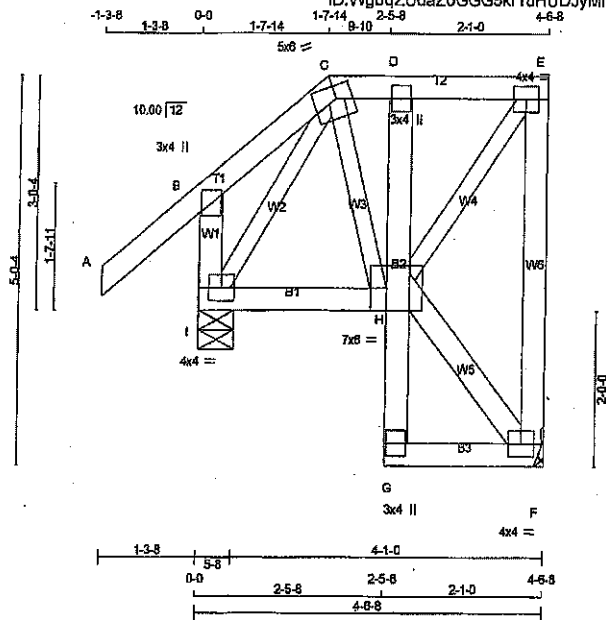


DRWG NO. TAM 12905239
STRUCTURAL
FOR COMMENT ONLY

JOB NAME 401747	TRUSS NAME T46S	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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Scale = 1/28.6

TOTAL WEIGHT = 2 X 34 = 68 lb
[M]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TTWW-m	MT20	5.0	6.0	2.00	2.50
D	TMV+p	MT20	3.0	4.0		
E	TMVW-t	MT20	4.0	4.0		
F	BMVW1-t	MT20	4.0	4.0		
G	BMV+p	MT20	3.0	4.0		
H	BMVWWW-t	MT20	7.0	8.0	Edge	2.50
I	BMVW1-t	MT20	4.0	4.0		

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
F	288	0	288	0	0
I	482	0	482	0	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX./MIN. COMPONENT REACTIONS	DEAD	SOIL
F	224	120 / 0	48 / 0	0 / 0
I	350	225 / 0	48 / 0	0 / 0

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 = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL FITCH 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 (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LBS)	MAX. UNBRACED LENGTH (LBS)
FR-TO		FROM TO		FR-TO		FROM TO	
A-B	0 / 45	-102.1 -102.1	0.14 (1)	10.00	H-F	-4 / 0	0.00 (1)
B-C	-37 / 0	-102.1 -102.1	0.13 (1)	6.25	H-E	0 / 208	0.05 (1)
C-D	-122 / 0	-102.1 -102.1	0.03 (1)	6.25	C-H	0 / 89	0.02 (1)
D-E	-120 / 0	-102.1 -102.1	0.06 (1)	6.25	I-C	-172 / 0	0.03 (1)
F-E	-257 / 0	0.0	0.0	11 (1)	7.81		
I-B	-268 / 0	0.0	0.0	0.03 (1)	7.81		
I-H	0 / 82	-38.5 -38.5	0.07 (2)	10.00			
G-H	0 / 47	0.0	0.0	0.01 (2)	10.00		
H-D	-179 / 0	0.0	0.0	0.01 (1)	7.61		
G-F	0 / 3	-38.5 -38.5	0.03 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 29.0	PSF
	DL = 6.0	PSF
BOT CH.	LL = 10.5	PSF
	DL = 7.0	PSF
TOTAL LOAD	= 52.5	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
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(56 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 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) = $L/360$ (0.18")
CALCULATED VERT. DEFL. (TL) = $L/899$ (0.01")

CSI: TO=0.14/1.00 (A-B:1), BC=0.07/1.00 (H-I:2), WB=0.05/1.00 (E-H: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

AUTOSOLVE RIGHT HEEL ONLY

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

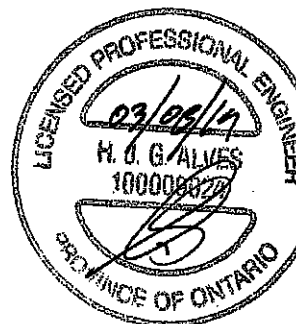
NAIL VALUES

PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354
	1657	768
	1657	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.32 (H) (INPUT = 0.90)
JSI METAL= 0.10 (B) (INPUT = 1.00)

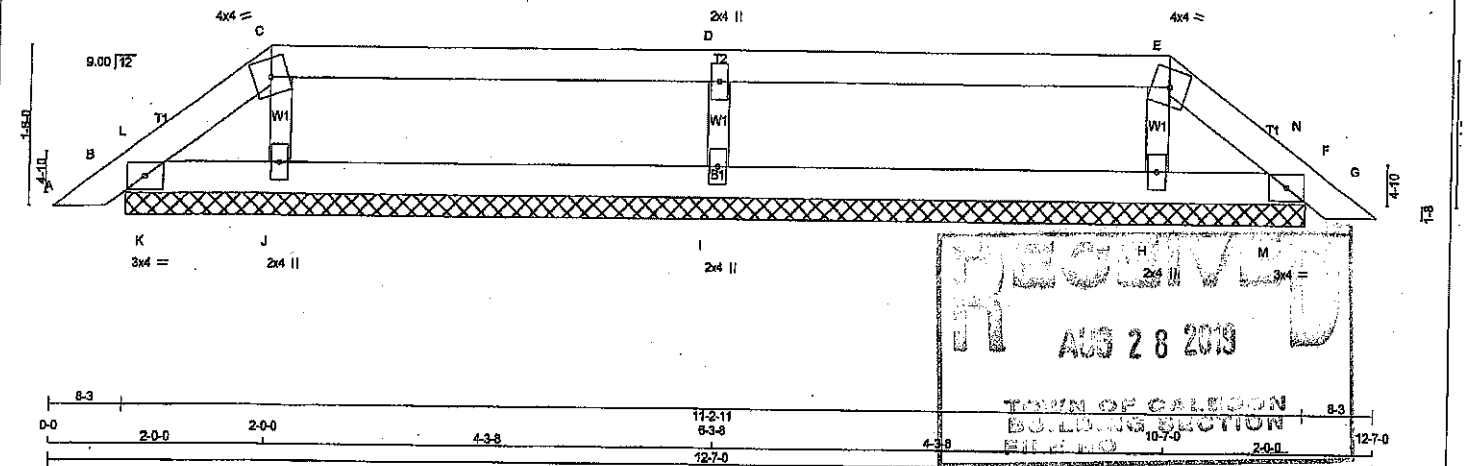


DRWG NO. TAM 17905240
STRUCTURAL
COMPONENT ONLY

JOB NAME 401747	TRUSS NAME PB1	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Fri Mar 8 16:03:31 2019 Page 1
ID:WgbqZUdaZoGGG5kr1uHUDJyMle5-r7LFd9kDp2LR11ADRPHU3n5pYIroX0WhEk5cpRzcy?Q

0-0 2-0-0 2-0-0 4-3-8 6-3-8 4-3-8 10-7-0 2-0-0 12-7-0
Scale = 1:20.7



LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - C 2x4 DRY

C - E 2x4 DRY

E - G 2x4 DRY

B - F 2x4 DRY

ALL WEBS 2x3 DRY

DRY: SEASONED LUMBER.

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG	
	VERT	HORZ	DOWN	HORZ		IN-SX	IN-SX
B	149	0	149	0	0	11-2-11	11-2-11
F	149	0	149	0	0	11-2-11	11-2-11
J	342	0	342	0	0	11-2-11	11-2-11
I	716	0	716	0	0	11-2-11	11-2-11
H	342	0	342	0	0	11-2-11	11-2-11

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN COMPONENT REACTIONS					
		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
B	102	87.0	0	0	0	0	17.0
F	102	87.0	0	0	0	0	17.0
J	285	118.0	0	0	0	0	73.0
I	529	310.0	0	0	0	0	128.0
H	285	118.0	0	0	0	0	73.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		VERT. LOAD	FACTORED		MAX. UNBRACED LENGTH	FR-TO	WEBS		MAX. UNBRACED LENGTH	FR-TO
	MAX. FACTORED FORCE (LBS)	FACTORED (PLF)		LC1	LC2			MAX. FACTORED FORCE (LBS)	FACTORED (PLF)		
A-B	0/17	-102.1	-102.1	0.03 (1)	10.00	J-C	-188/0	0.03 (1)			
B-L	-22/18	-102.1	-102.1	0.01 (3)	8.25	I-D	-547/0	0.08 (1)			
L-C	-43/0	-102.1	-102.1	0.01 (1)	8.25	H-E	-188/0	0.03 (1)			
C-D	-12/0	-102.1	-102.1	0.32 (1)	8.25	K-L	-88/0	0.00 (1)			
D-E	-12/0	-102.1	-102.1	0.32 (1)	8.25	M-N	-88/0	0.00 (1)			
E-N	-43/0	-102.1	-102.1	0.01 (1)	8.25						
N-F	-22/18	-102.1	-102.1	0.01 (3)	8.25						
F-G	0/17	-102.1	-102.1	0.03 (1)	10.00						
B-K	0/31	-38.5	-38.5	0.03 (1)	10.00						
K-J	0/31	-38.5	-38.5	0.08 (2)	10.00						
J-I	0/12	-38.5	-38.5	0.12 (3)	10.00						
I-H	0/12	-38.5	-38.5	0.12 (3)	10.00						
H-M	0/31	-38.5	-38.5	0.08 (2)	10.00						
M-F	0/31	-38.5	-38.5	0.03 (1)	10.00						

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 29.0 PSF

DL = 6.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 52.5 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

- CSA 086-08, CSA 085-14

- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.32/1.00 (C-D:1), BC=0.12/1.00 (I-J:3), WB=0.08/1.00 (D-I:1), SS=0.21/1.00 (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.

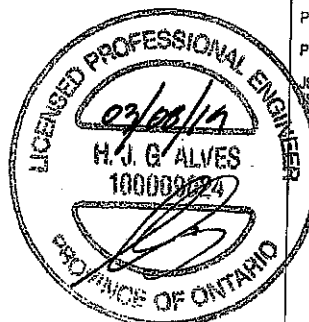
NAIL VALUES

PLATE	GRIP (DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
MT20	618	354	1587 1556

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

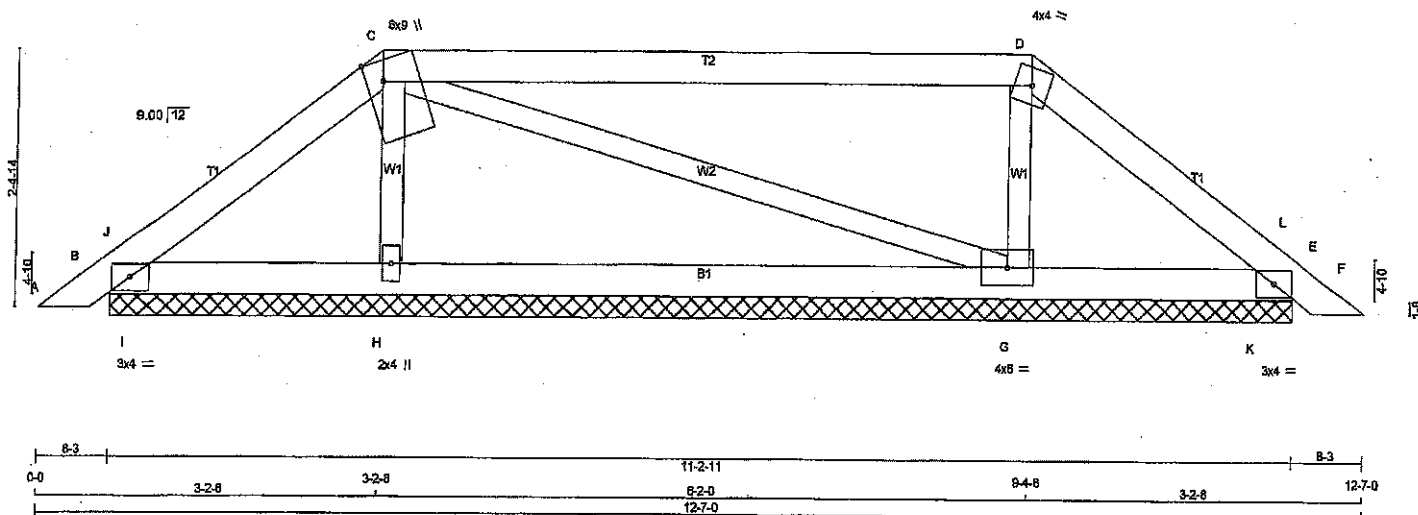
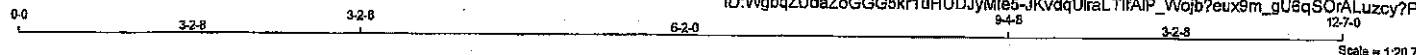


DWG NO. TAM 1705241
STRUCTURAL
CONSULTANT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401747	PB30	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MitTek Industries, Inc. Fri Mar 8 16:03:32 2018 Page 1
ID:WgbqZUdaZoGGG5kr1uHUDJyMle5-JKvdqUraL TIFAIP_Woib?eux9m_gU8qSOrALuzcy?P



TOTAL WEIGHT = 37 lb

LUMBER

N. L. G. A. RULES

CHORDS SIZE

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
SPF DRY: SEASONED LUMBER.

DESCR.

SPF

SPF

SPF

SPF

SPF

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	UP/LIFT
B	270	0	270	0
E	257	0	257	0
H	574	0	574	0
G	598	0	598	0

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	188	147 / 0	8 / 0	0 / 0	0 / 0	34 / 0	0 / 0
E	179	140 / 0	8 / 0	0 / 0	0 / 0	33 / 0	0 / 0
H	439	210 / 0	112 / 0	0 / 0	0 / 0	118 / 0	0 / 0
G	456	224 / 0	112 / 0	0 / 0	0 / 0	121 / 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)

MEMB.	CHORDS	WEBS
	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO	FROM TO	FR-TO
A-B	0 / 17	-102.1 -102.1 0.03 (1)
B-J	-47 / 20	-102.1 -102.1 0.04 (1)
J-C	-117 / 0	-102.1 -102.1 0.07 (1)
C-D	-51 / 0	-102.1 -102.1 0.08 (1)
D-L	-98 / 0	-102.1 -102.1 0.07 (1)
L-E	-24 / 23	-102.1 -102.1 0.04 (1)
E-F	0 / 17	-102.1 -102.1 0.03 (1)
B-I	0 / 87	-38.5 -38.5 0.09 (1)
I-H	0 / 87	-38.5 -38.5 0.18 (2)
H-G	0 / 69	-38.5 -38.5 0.18 (2)
G-K	0 / 70	-38.5 -38.5 0.18 (2)
K-E	0 / 70	-38.5 -38.5 0.09 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	29.0	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	10.5	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	52.5	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
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.66/1.00 (C-D-1), BC=0.18/1.00 (H-I-2), WB=0.06/1.00 (D-G-1), SS=0.25/1.00 (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.

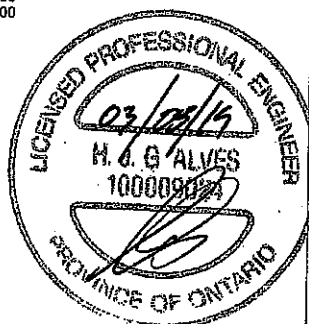
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.26 (D) (INPUT = 0.90)
JSI METAL= 0.07 (H) (INPUT = 1.00)



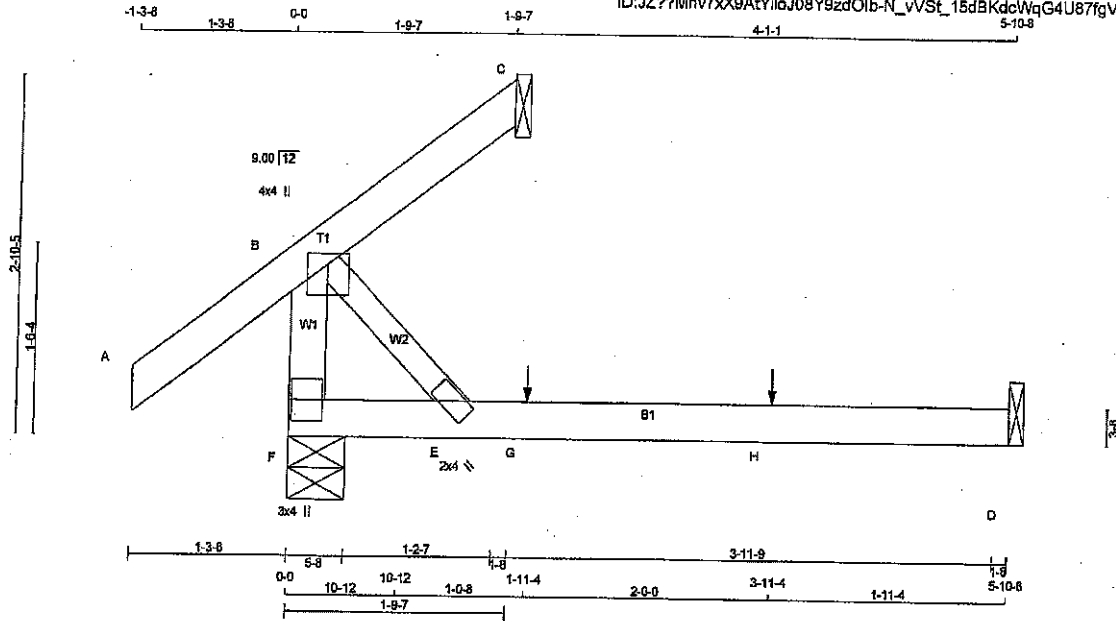
DWG NO. TAM 77905242
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401746	J1	4	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MTEK Industries, Inc. Fri Mar 8 14:57:45 2019 Page 1
ID: JZ??Mhv7xX9AtYlgJ08Y9zdOlb-N_VVSt_15d3KdcWqG4U87fgV_5dUNNrspDpJ9zcyz4
5-10-8

Scale = 1:17.7



LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY
DRY: SEASONED LUMBER.

DESCR.	SPF
SPF	
SPF	
SPF	

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

BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ
F	390	0	390	0
C	37	0	37	0
D	133	0	144	0

SEE MITEK STANDARD DETAIL B37821H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE			
F	289	163 / 0	62 / 0	0 / 0	75 / 0	0 / 0
C	25	21 / 0	0 / 0	0 / 0	4 / 0	0 / 0
D	103	0 / 0	62 / 0	0 / 0	41 / 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: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED HORZ. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	FACTORED HORZ. LOAD (PLF)
FR-TO						FR-TO			
F-B	-288 / 0	0.0	0.0	0.03 (1)	7.81	B-E	0 / 0	0.00 (1)	
A-B	0 / 42	-102.1	-102.1	0.15 (1)	10.00				
B-C	-33 / 0	-102.1	-102.1	0.15 (1)	6.25				
F-E	0 / 0	-38.5	-38.5	0.22 (2)	10.00				
E-G	0 / 0	-38.5	-38.5	0.32 (2)	10.00				
G-H	0 / 0	-38.5	-38.5	0.32 (2)	10.00				
H-D	0 / 0	-38.5	-38.5	0.32 (2)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	1-11.4	1	1	1	BACK	VERT	TOTAL		
H	3-11.4	1	1	1	BACK	VERT	TOTAL		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	29.0	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	10.5	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	52.5	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
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/360$ (0.20")
CALCULATED VERT. DEFL. (LL) = $L/925$ (0.08")
ALLOWABLE DEFL. (TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL. (TL) = $L/555$ (0.13")

CSF TC=0.15/1.00 (A-B:1), BC=0.32/1.00 (D-E:2), WB=0.00/1.00 (B-E:1), SSI=0.12/1.00 (E-F:2)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.23 (B) (INPUT = 0.80)
JSI METAL= 0.06 (B) (INPUT = 1.00)



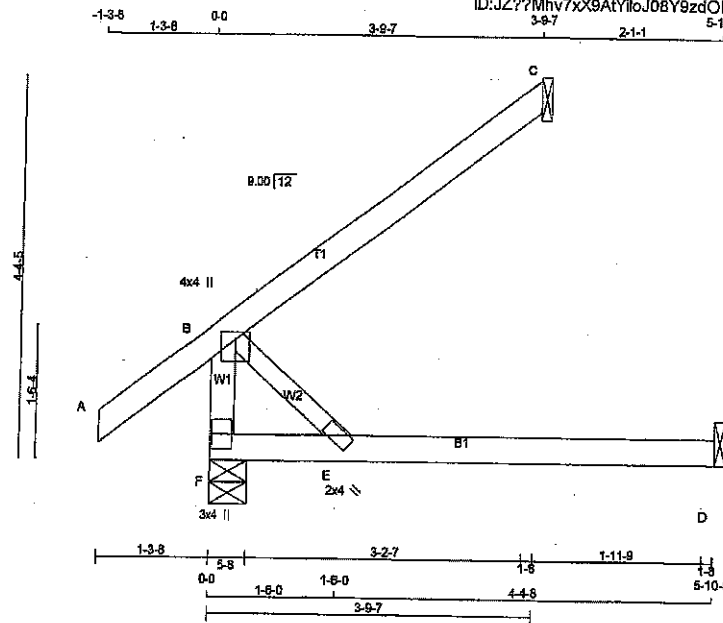
DWG NO. TAM 71905217
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401746	J2	4	1	TRUSS DESC.		

Tamarack Ropt Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Fri Mar 8 14:57:46 2019 Page 1
ID: JZ??Mhv7xX9AtYloJ08Y9zdOlb-rAThD?fsxJBFm51qn?NgsCIEVz16q504Tzmsbzyz3

Scale = 1:25.3



LUMBER

N.L.G.A. RULES
CHORDS SIZE
F - B 2x4 DRY
A - C 2x4 DRY
F - D 2x4 DRY

LUMBER
No.2
No.2
No.2

DESCR.
SPF
SPF
SPF

ALL WEBS 2x3 DRY
DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
E	BMW+w	MT20	2.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ
F	447	0	447	0
C	193	0	193	0
D	113	0	144	0

SEE MITEK STANDARD DETAIL B37821H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	332	190/0	62/0	0/0	0/0	80/0	0/0
C	133	110/0	0/0	0/0	0/0	23/0	0/0
D	103	0/0	62/0	0/0	0/0	41/0	0/0

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

BRACING

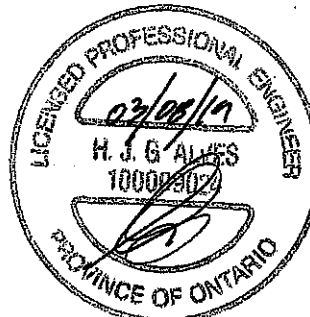
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORIZ. LOAD (PLF)	MAX. FACTORED MOMENT (K-FT)	MAX. FACTORED ROTATION (DEG)
FR-TO							
F-B		-334/0	0.0	0.0	0.03 (1)	7.81	0/0
A-B		0/42	-102.1	-102.1	0.14 (1)	10.00	0.00 (1)
B-C		0/0	-102.1	-102.1	0.25 (1)	10.00	0.00 (1)
F-E		0/0	-38.5	-38.5	0.23 (3)	10.00	0.00 (1)
E-D		0/0	-38.5	-38.5	0.30 (3)	10.00	0.00 (1)



DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 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
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.20")
CALCULATED VERT. DEFL. (LL) = L/925 (0.08")
ALLOWABLE DEFL. (TL) = L/360 (0.20")
CALCULATED VERT. DEFL. (TL) = L/555 (0.13")

CSI: TC=0.25/1.00 (B-C:1), BC=0.30/1.00 (D-E:3), 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 (PSI)	SECTION (PLI)
MT20	818	354	1667
	788	1687	1656

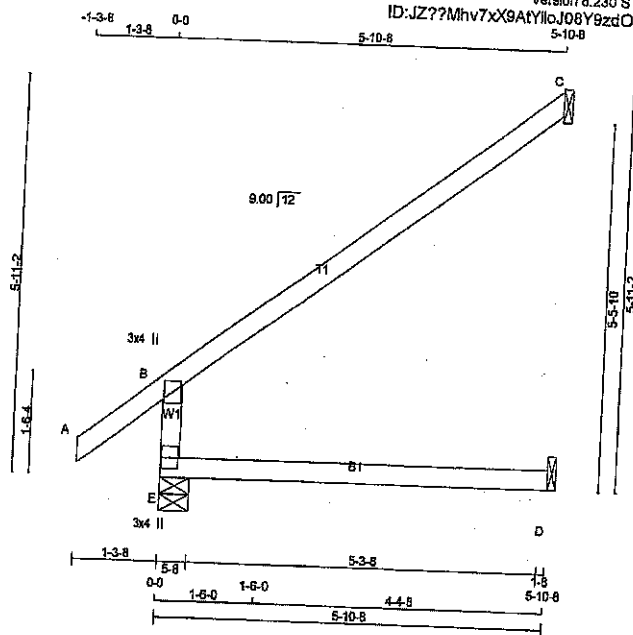
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.27 (B) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)

DRWG NO. TAM 77905218
STRUCTURAL
COLD-CHENT ONLY

JOB NAME 401746 Tamarack Roof Truss, Burlington	TRUSS NAME J5	QUANTITY 15	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
E	BMV1+p	MT20	3.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
E	575	0	575	0	5-8	5-8
C	225	0	225	0	1-8	1-8
D	45	0	49	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37821H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
C	401	283 / 0	0 / 0	0 / 0	0 / 0	108 / 0	0 / 0
D	154	128 / 0	0 / 0	0 / 0	0 / 0	28 / 0	0 / 0
	35	0 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0

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

BRACING

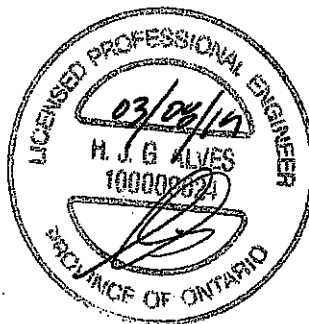
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)
FR-TO				
E-B	-518 / 0	0.0	0.0	0.11 (4)
A-B	0 / 42	-102.1	-102.1	0.14 (1)
B-C	-45 / 0	-102.1	-102.1	0.80 (1)
E-D	0 / 0	-17.5	-17.5	0.13 (4)



DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 28.0	PSF
	DL = 6.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.0	PSF
TOTAL LOAD	= 42.0	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, OBC 2012
- CSA C88-08, CSA C88-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 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=0.80/1.00 (B-C-1), BC=0.13/1.00 (D-E-4), WS=0.00/1.00 (n/a-0), SS=0.23/1.00 (B-C-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.24 (B) (INPUT = 0.90)
JSI METAL= 0.18 (B) (INPUT = 1.00)

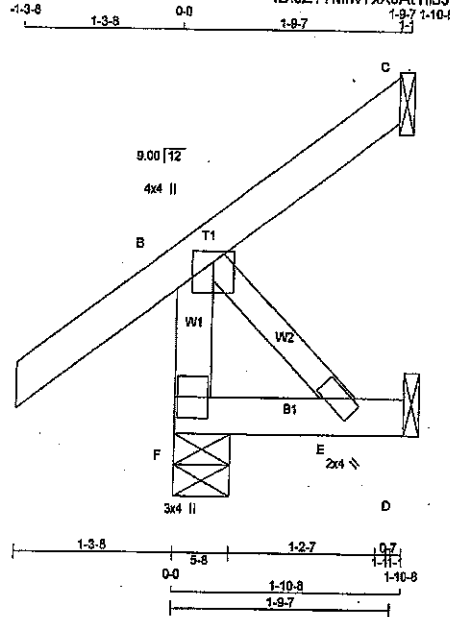
DRWG NO. TAM 17905219
STRUCTURAL
COMPONENT ONLY

TOTAL WEIGHT = 15 X 18 = 270 lb

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401746	J6	4	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Fri Mar 8 14:57:48 2019 Page 1
ID: JZ??Mhv7xX8AYlloJ08Y9zdOlb-nZbd4v0vOYZvU3EPxC1nHl?RljdkbJXnStwUzcyz1



Scale = 1:17.7

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 is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
E	BMW+w	MT20	2.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
F	322	322	0	0
C	37	37	-45	1-8
D	36	46	0	1-8

SEE MITEK STANDARD DETAIL B37821H FOR CONNECTION TO JOINT(S) C, D

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	229	163 / 0	20 / 0	0 / 0	0 / 0	0 / 0	47 / 0	0 / 0
C	25	21 / -31	0 / 0	0 / 0	0 / 0	0 / 0	4 / 0	0 / 0
D	33	0 / 0	20 / 0	0 / 0	0 / 0	0 / 0	13 / 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)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	LC2 MAX	UNBRACED LENGTH	MEMB.	WEBS MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO				FR-TO		
F-B	-288 / 0	0.0	0.0	0.03 (1)	7.81	B-E	0 / 0	0.00 (1)
A-B	0 / 42	-102.1	-102.1	0.14 (1)	10.00			
B-C	-33 / 0	-102.1	-102.1	0.13 (1)	6.25			
F-E	0 / 0	-38.5	-38.5	0.03 (3)	10.00			
E-D	0 / 0	-38.5	-38.5	0.03 (3)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 4 X 9 = 37 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 29.0	PSF
	DL = 6.0	PSF
BOT CH.	LL = 10.5	PSF
	DL = 7.0	PSF
TOTAL LOAD	= 52.5	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
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 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=0.14/1.00 (A-B:1), BC=0.03/1.00 (E-F:3), 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
MT20	618	354	1867

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

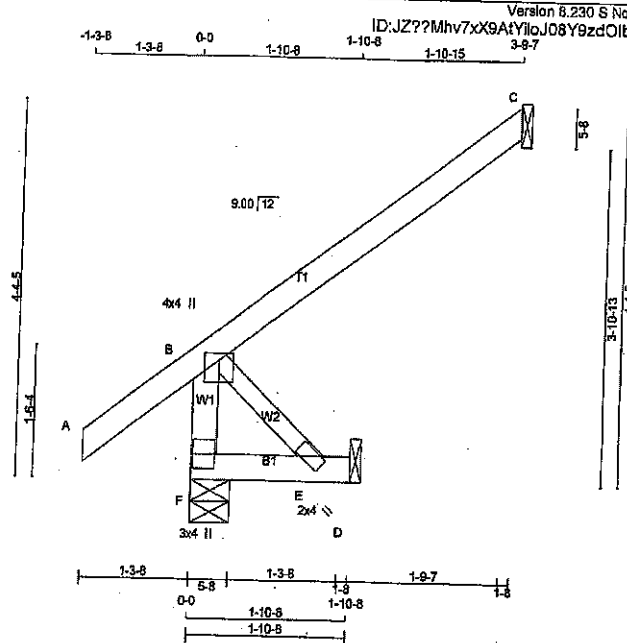
JSI GRIP= 0.23 (B) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)



DRWG NO. TAM 119051220
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401746	J7	4	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington



Scale = 1/25.0

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
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	1.00	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

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
F	VERT	DOWN	IN-SX	IN-SX
F	370	370	5-8	5-8
C	193	193	1-8	1-8
D	36	45	1-8	1-8

SEE MITEK STANDARD DETAIL. B37821H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN COMPONENT REACTIONS	WIND	DEAD	SOIL
F	COMBINED	SNOW	LIVE	PERM.LIVE	
F	282	190/0	20/0	0/0	52/0
C	133	110/0	0/0	0/0	23/0
D	33	0/0	20/0	0/0	13/0

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	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRACED LENGTH	WEBS	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
F-B	-334/0	0.0	0.0	0.03 (1)	7.81	0/0	0.00 (1)
A-B	0/42	-102.1	-102.1	0.14 (1)	10.00		
B-C	0/0	-102.1	-102.1	0.25 (1)	10.00		
F-E	0/0	-38.5	-38.5	0.04 (3)	10.00		
E-D	0/0	-38.5	-38.5	0.03 (3)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 4 X 12 = 48 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 29.0 PSF
	DL = 6.0 PSF
BOT CH.	LL = 10.5 PSF
	DL = 7.0 PSF
TOTAL LOAD	= 52.5 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
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 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=0.25/1.00 (B-C:1), BC=0.04/1.00 (E-F:3),
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.

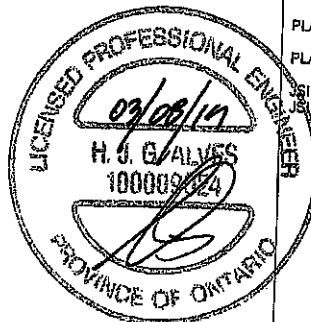
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

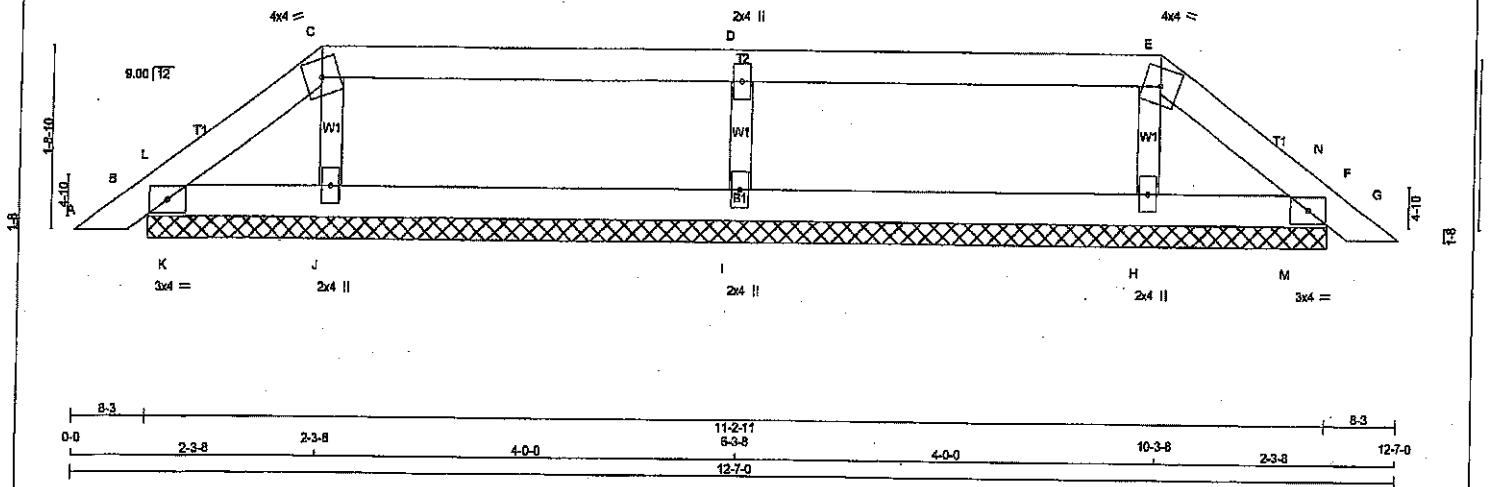
PLATE ROTATION TOL. = 5.0 Deg.

SI GRIP= 0.27 (B) (INPUT = 0.90)
SI METAL= 0.07 (B) (INPUT = 1.00)



DRWG NO. TAM 77905221
STRUCTURAL
OF MOMENT ONLY

JOB NAME 401747	TRUSS NAME PB31	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
Tamarack Rqof Truss, Burlington				Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Fri Mar 8 16:03:33 2019 Page 1 ID:WgbqZUdaZoGGG5kr1uHUDJyMle5-nWS72qmTLf9GKKcYEJy8CBAIz8HPxf_h2ajKzoy70		
Scale = 1:20.7						



LUMBER

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

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

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

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B - TMB1-I	MT20	3.0	4.0		
C - TTW-m	MT20	4.0	4.0		
D - TMBW-w	MT20	2.0	4.0		
E - TTW-m	MT20	4.0	4.0		
F - TMB1-I	MT20	3.0	4.0		
H, I, J					
H - BMBW1-w	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		
B	181	0	181	0	11-2-11	11-2-11
F	181	0	181	0	11-2-11	11-2-11
J	336	0	336	0	11-2-11	11-2-11
I	886	0	886	0	11-2-11	11-2-11
H	336	0	336	0	11-2-11	11-2-11

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	126	96/0	6/0	0/0	0/0	24/0	0/0
F	126	96/0	6/0	0/0	0/0	24/0	0/0
J	258	120/0	68/0	0/0	0/0	70/0	0/0
I	493	288/0	87/0	0/0	0/0	116/0	0/0
H	258	120/0	68/0	0/0	0/0	70/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, F, J, I, 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)	LC1 MAX CS (LC)	MAX. UNBRAC LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CS (LC)		
FR-TO		FROM	TO		FR-TO				
A-B	0/17	-102.1	-102.1	0.01 (1)	10.00	J-C	-192/0	0.01 (1)	
B-L	-33/2	-102.1	-102.1	0.00 (1)	6.25	I-D	-510/0	0.04 (1)	
L-C	-46/0	-102.1	-102.1	0.01 (1)	6.25	H-E	-192/0	0.01 (1)	
C-D	-19/0	-102.1	-102.1	0.14 (1)	6.25	K-L	-102/0	0.00 (1)	
D-E	-19/0	-102.1	-102.1	0.14 (1)	6.25	M-N	-102/0	0.00 (1)	
E-N	-46/0	-102.1	-102.1	0.01 (1)	6.25				
N-F	-33/2	-102.1	-102.1	0.00 (1)	6.25				
F-G	0/17	-102.1	-102.1	0.01 (1)	10.00				
B-K	0/35	-38.5	-38.5	0.02 (1)	10.00				
K-J	0/35	-38.5	-38.5	0.04 (2)	10.00				
J-I	0/19	-38.5	-38.5	0.05 (3)	10.00				
I-H	0/19	-38.5	-38.5	0.05 (3)	10.00				
H-M	0/35	-38.5	-38.5	0.04 (2)	10.00				
M-F	0/35	-38.5	-38.5	0.02 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. GIC

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TO=0.14/1.00 (C-D:1), BC=0.05/1.00 (I-J:3), WB=0.04/1.00 (D-I:1), SS=0.10/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

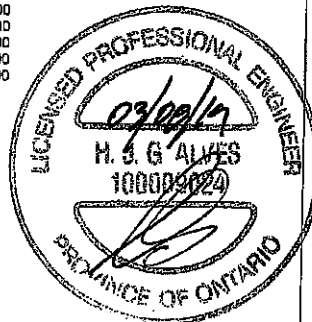
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

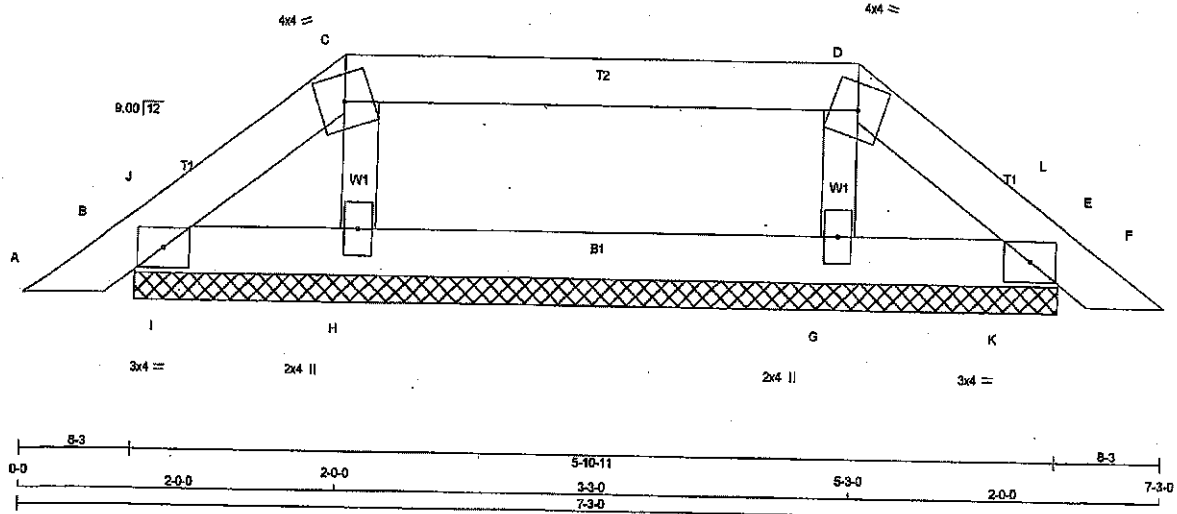
JSI GRIP= 0.13 (D) (INPUT = 0.80)
JSI METAL= 0.05 (D) (INPUT = 1.00)



DRWG NO. TAM **T7905243**
STRUCTURAL
COMPONENT ONLY

JOB NAME 401747	TRUSS NAME PB32	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 - 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
SPF DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-4	MT20	3.0	4.0		
C	TTW-m	MT20	4.0	4.0		
D	TTW-m	MT20	4.0	4.0		
E	TMB1-4	MT20	3.0	4.0		
G	BMW1-w	MT20	2.0	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	REQRD BRG
	VERT	HORZ	DOWN	HORZ
B	170	0	170	0
E	170	0	170	0
H	304	0	304	0
G	304	0	304	0

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	119	92/0	5/0	0/0	0/0	0/0	22/0	0/0
E	119	92/0	5/0	0/0	0/0	0/0	22/0	0/0
H	232	114/0	57/0	0/0	0/0	0/0	61/0	0/0
G	232	114/0	57/0	0/0	0/0	0/0	61/0	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	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)
FR-TO									
A-B	0/17		-102.1	-102.1	0.03 (1)	10.00			
B-J	-48/0		-102.1	-102.1	0.00 (1)	8.25			
J-C	-54/0		-102.1	-102.1	0.02 (1)	8.25			
C-D	-23/0		-102.1	-102.1	0.18 (1)	8.25			
D-L	-54/0		-102.1	-102.1	0.02 (1)	8.25			
L-E	-48/0		-102.1	-102.1	0.00 (1)	8.25			
E-F	0/17		-102.1	-102.1	0.03 (1)	10.00			
B-I	0/41		-38.5	-38.5	0.03 (1)	10.00			
I-H	0/41		-38.5	-38.5	0.05 (2)	10.00			
H-G	0/23		-38.5	-38.5	0.05 (2)	10.00			
G-K	0/41		-38.5	-38.5	0.05 (2)	10.00			
K-E	0/41		-38.5	-38.5	0.03 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	29.0	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	10.5	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	52.5	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
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.18/1.00 (C-D:1), BC=0.05/1.00 (H-I:2), WB=0.03/1.00 (C-H:1), SS=0.13/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

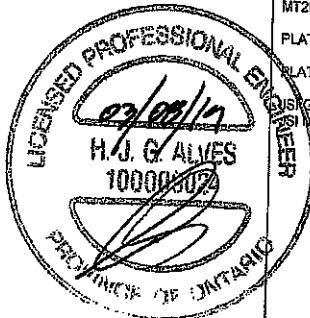
NAIL VALUES

PLATE	GRIP (DRY)	SHEAR (PSI)	SECTION (PL)
MT20	818	354	1887
	788	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

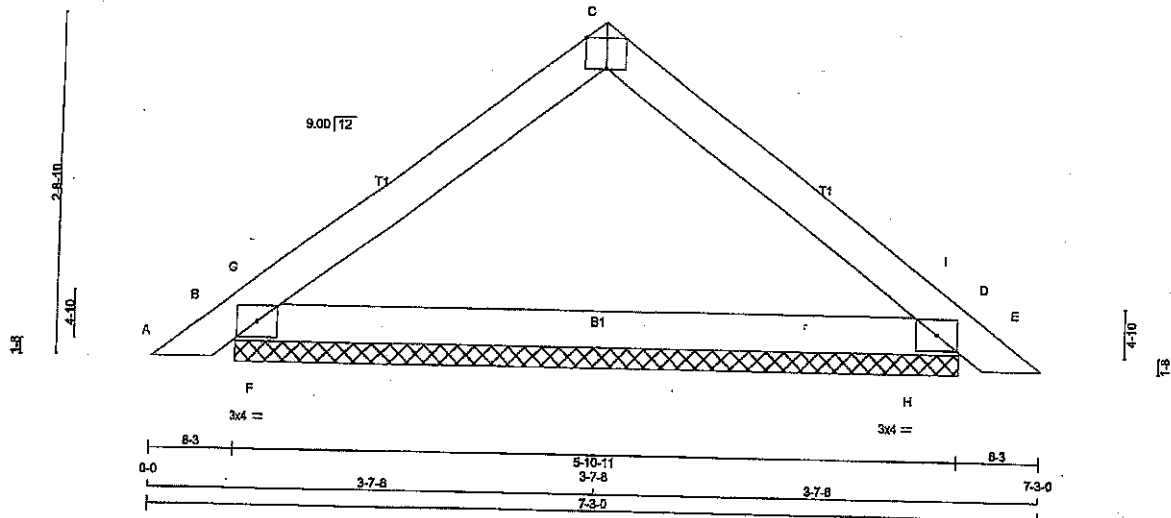
US GRIP = 0.14 (C) (INPUT = 0.90)
SI METAL = 0.04 (H) (INPUT = 1.00)



DRWG NO. TAM P905249
STRUCTURAL
COMPONENT ONLY

JOB NAME 401747	TRUSS NAME PB33	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:17.7



LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - C 2x4 DRY No.2

C - E 2x4 DRY No.2

B - D 2x4 DRY No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B 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

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
B	475 0	475 0	5-10-11	5-10-11
D	475 0	475 0	5-10-11	5-10-11

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	351	205/0	62/0	0/0	0/0	84/0	0/0
D	351	205/0	62/0	0/0	0/0	84/0	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					WEBS				
MAX. FACTORED		FACTORED			MAX. FACTORED		FACTORED		
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 (PLF)	MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO			FR-TO			
A-B	0 / 17	-102.1	-102.1	0.03 (1)	10.00	F-G	0 / 387	0.00 (1)	
B-G	-492 / 0	-102.1	-102.1	0.14 (3)	6.25	H-I	0 / 387	0.00 (1)	
G-C	-267 / 0	-102.1	-102.1	0.18 (1)	6.25				
C-I	-257 / 0	-102.1	-102.1	0.18 (1)	6.25				
I-D	-492 / 0	-102.1	-102.1	0.14 (3)	6.25				
D-E	0 / 17	-102.1	-102.1	0.03 (1)	10.00				
B-F	0 / 219	-38.5	-38.5	0.11 (3)	10.00				
F-H	0 / 219	-38.5	-38.5	0.20 (2)	10.00				
H-D	0 / 219	-38.5	-38.5	0.11 (3)	10.00				

TOTAL WEIGHT = 2 X 17 = 34 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 29.0 PSF

DL = 6.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 52.5 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

- CSA 086-08, CSA 086-14

- TPIC 2011, TPIC 2014

(55 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.18/1.00 (C-G:1), BC=0.20/1.00 (F-H:2), WB=0.00/1.00 (F-G:1), SSI=0.22/1.00 (D-I:3)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

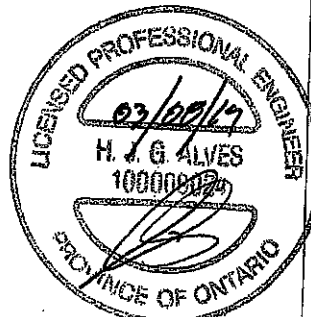
MT20 618 354 1657 788 1987 1556

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.30 (B) (INPUT = 0.90)

JSI METAL= 0.09 (B) (INPUT = 1.00)

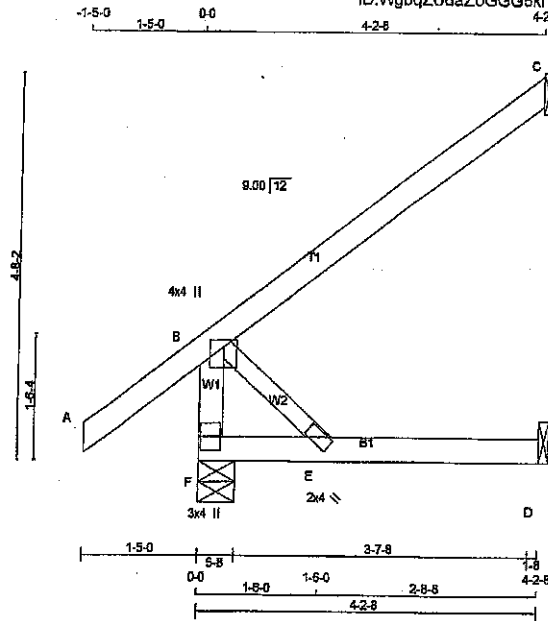


DRG NO. TAM 17905245
STRUCTURAL
PREPARED ONLY

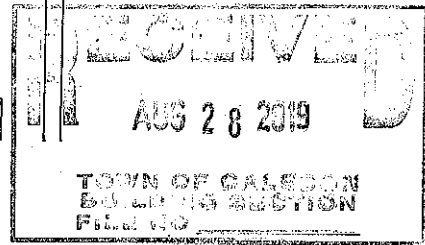
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401747	J30	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Fri Mar 8 16:03:27 2019 Page 1
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Scale = 1/28.8



LUMBER

N. L. G. A. RULES

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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
E	BMV+w	MT20	2.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
F	449	0	449	0	5-8	5-8
C	215	0	215	0	1-8	1-8
D	81	0	103	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37821H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	328	210 / 0	44 / 0	0 / 0	0 / 0	73 / 0	0 / 0
C	147	122 / 0	0 / 0	0 / 0	0 / 0	25 / 0	0 / 0
D	74	0 / 0	44 / 0	0 / 0	0 / 0	28 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS					WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LOAD LC1 (LBS)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)
FR-TO		FROM TO			FR-TO		
F-B	-368 / 0	0.0	0.0	0.04 (1)	B-E	0 / 0	0.00 (1)
A-B	0 / 46	-102.1	-102.1	0.16 (1)			
B-C	0 / 0	-102.1	-102.1	0.31 (1)			
F-E	0 / 0	-38.5	-38.5	0.15 (3)			
E-D	0 / 0	-38.5	-38.5	0.16 (3)			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 29.0 PSF
	DL = 8.0 PSF
BOT CH.	LL = 10.5 PSF
	DL = 7.0 PSF
TOTAL LOAD	= 52.5 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
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL)= L/899 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL)= L/899 (0.03")

CSI: TC=0.31/1.00 (B-C:1), BC=0.16/1.00 (D-E:3), WB=0.00/1.00 (B-E:1), SSI=0.13/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

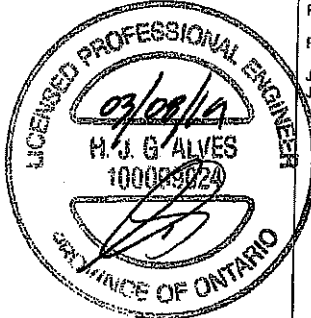
NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.29 (B) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)



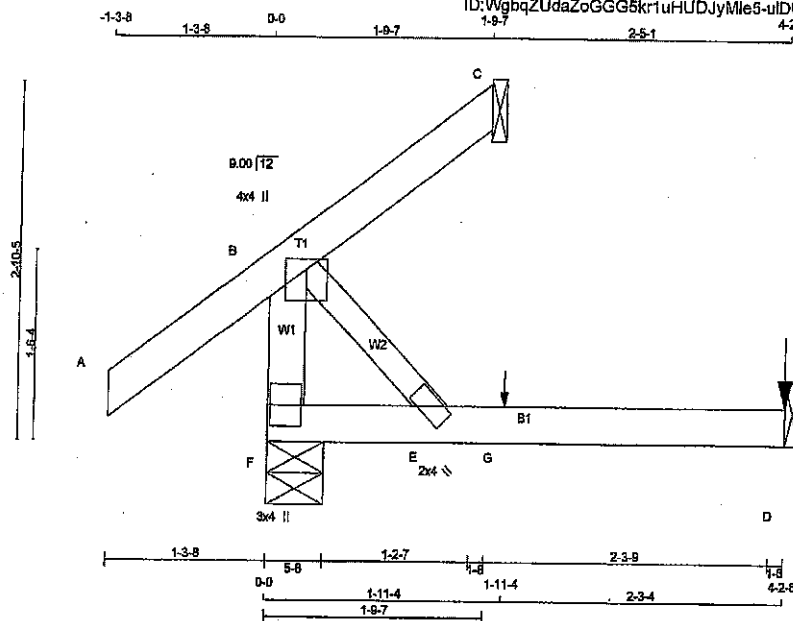
DRWG NO. TAM 71908246
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401747	J32	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MTEK Industries, Inc. Fri Mar 8 18:03:29 2019 Page 1
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Scale = 1:17.7



LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY
DRY: SEASONED LUMBER.

SPF
SPF
SPF

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
F	367	0	367	0
C	37	0	37	0
D	93	0	118	0

SEE MITEK STANDARD DETAIL B37821H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

1ST LOASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
JT	COMBINED					
F	270	163/0	44/0	0/0	63/0	0/0
C	25	21/0	0/0	0/0	4/0	0/0
D	84	0/0	51/0	0/0	34/0	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: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX (LC)	MAX. UNBRACED LENGTH	MEMB.	WEBS MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH
FR-TO					FR-TO		
F-B	-288/0	0.0	0.0	0.03 (1)	B-E	0/0	0.00 (1)
A-B	0/42	-102.1	-102.1	0.15 (1)			
B-C	-33/0	-102.1	-102.1	0.15 (1)			
F-E	0/0	-38.5	-38.5	0.14 (2)			
E-G	0/0	-38.5	-38.5	0.16 (2)			
G-D	0/0	-38.5	-38.5	0.16 (2)			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	4-2-8	-12	-15	-	BACK	VERT	TOTAL	-	-
G	1-11-4	1	1	-	BACK	VERT	TOTAL	-	-

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	29.0	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	10.5	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	52.5	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
- CSA D86-09, CSA D86-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 37.8 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(LL) = $L/899$ (0.02")
ALLOWABLE DEFL.(TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(TL) = $L/899$ (0.03")

CSI: TC=0.16/1.00 (A-B-1), BC=0.16/1.00 (D-E-2), WB=0.00/1.00 (B-E-1), SBI=0.10/1.00 (B-C-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 RIGHT HEEL ONLY

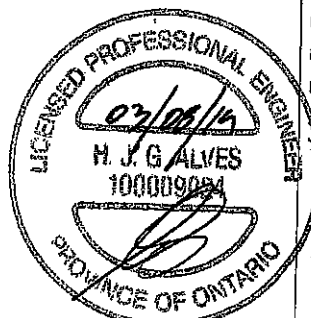
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1867 788 1907 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SI GRIP= 0.23 (B) (INPUT = 0.90)
SI METAL= 0.08 (B) (INPUT = 1.00)



DRWG NO. TAM 7905249
STRUCTURAL
COMPOUNDING

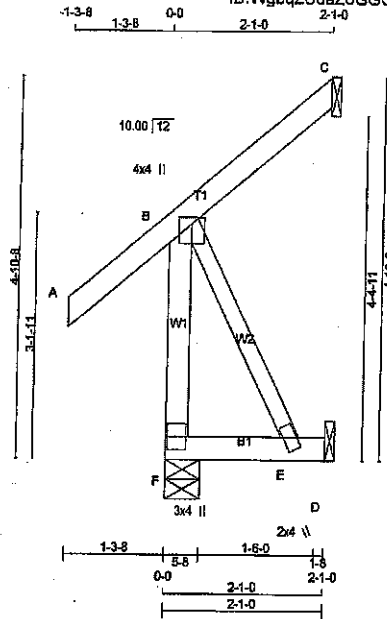
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401747	J33	7	1	TRUSS DESC.		

Famarack Roof Truss, Burlington

Version 8.230 8 Nov 17 2018 MiTek Industries, Inc. Fri Mar 8 16:03:30 2019 Page 1

ID:WgbqZUdaZoGGG5kr1uHUDJyMle5-NxnsQpb2kDaPt1t5FWaZgbL7kCaTX?4M3H7zcy?R

Scale = 1:28.2



LUMBER

N.L.G.A. RULES

CHORDS SIZE

F - B 2x4 DRY

A - C 2x4 DRY

F - D 2x4 DRY

ALL WEBS 2x3 DRY

DRY: SEASONED LUMBER.

LUMBER

No.2

No.2

No.2

No.2

DESCR.

SPF

SPF

SPF

SPF

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
E	BMVW+w	MT20	2.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
F	288	288	0	5-8
C	106	106	0	1-8
D	40	51	0	1-8

SEE MITTEK STANDARD DETAIL B37821H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	206	141/0	22/0	0/0	0/0	44/0	0/0
C	73	60/0	0/0	0/0	0/0	12/0	0/0
D	36	0/0	22/0	0/0	0/0	15/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	WEBS MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH
F-B	-248/0	0.0	0.0	0/0	0.00 (1)
A-B	0/45	-102.1	-102.1	0/0	10.00
B-C	0/0	-102.1	-102.1	0/0	10.00
F-E	0/0	-38.5	-38.5	0/0	10.00
E-D	0/0	-38.5	-38.5	0/0	10.00

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 28.0 PSF

DL = 6.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2010, OBC 2012

- CSA 086-08, CSA 086-14

- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.19")

CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")

ALLOWABLE DEFL.(TL) = $L/360$ (0.19")

CALCULATED VERT. DEFL.(TL) = $L/999$ (0.00")

CSI: TO=0.14/1.00 (A-B:1), BC=0.04/1.00 (E-F:3),

WB=0.00/1.00 (B-E:1), SSI=0.08/1.00 (A-B:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT

RESPONSIBLE FOR QUALITY CONTROL IN

THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

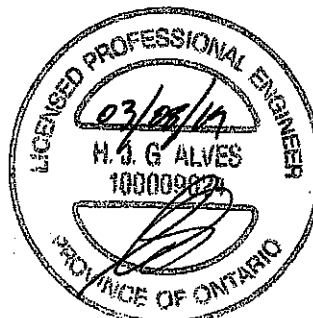
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (B) (INPUT = 0.50)

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



DRWG NO. TAM 17905249
STRUCTURAL
TAMMONT ONLY



isDesign™

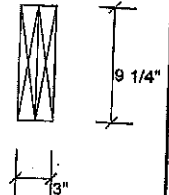
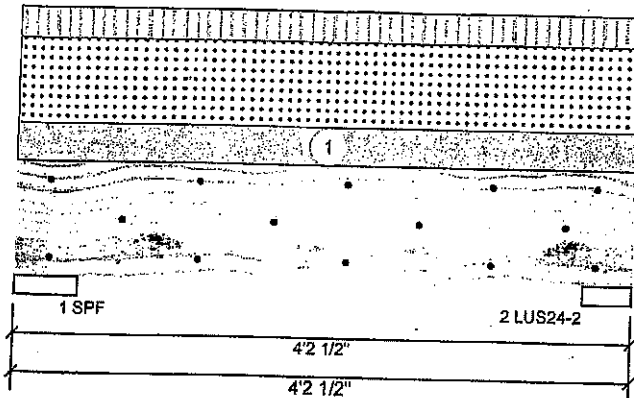
Client:
Project:
Address:

Date: 3/8/2019
Designer:
Job Name: 200630
Project #:

Page 5 of 6

B30 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Roof (Residential)
Plies:	2	Slope:	0/12
Moisture Condition:	Dry	Design Method:	LSD
Deflection LL:	360	Building Code:	NBCC 2015
Deflection TL:	360	Load Sharing:	No
Importance:	Normal	Deck:	Not Checked
		Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind
1	91	113	251	0
2	86	106	237	0

Bearings and Factored Reactions

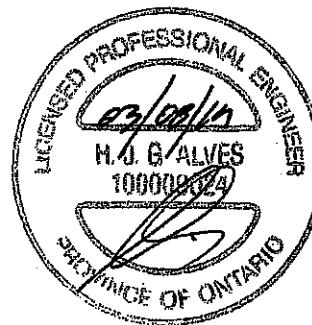
Bearing	Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF	5.500"	6% 141 / 488	609 L	1.25D+1.5S +L
2 - LUS24-2	4.000"	8% 133 / 441	574 L	1.25D+1.5S +L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	441 ft-lb	2'2"	6039 ft-lb	0.073 (7%)	1.25D+1.5S +L	L
Unbraced	441 ft-lb	2'2"	5667 ft-lb	0.078 (8%)	1.25D+1.5S +L	L
Shear	498 lb	1'2"	3984 lb	0.125 (12%)	1.25D+1.5S +L	L
LL Defl Inch	0.002 (L/23884)	2'2 1/16"	0.118 (L/360)	0.020 (2%)	S+0.5L	L
TL Defl Inch	0.002 (L/17313)	2'2 1/16"	0.118 (L/360)	0.020 (2%)	D+S+0.5L	L

Design Notes

- 1 Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on single ply width.



DWG NO. TAM 17405250
STRUCTURAL
COMPONENT ONLY 1/2

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Uniform		4'-0-0	Near Face	13 PSF	10.5 PSF	29 PSF	0 PSF	

Manufacturer Info

Tamarack Roof Trusses
3269 North Service Rd., ON
Canada
L7N3G2
(905) 335-1115



This design is valid until 12/11/2021





isDesign™

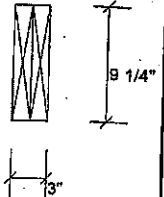
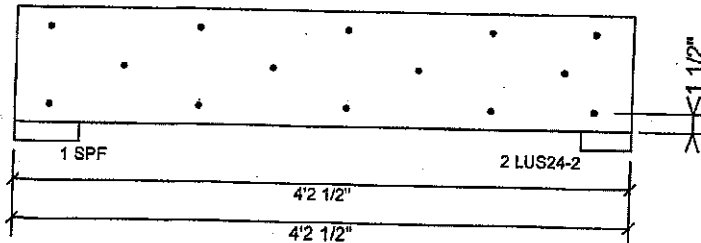
Client:
Project:
Address:

Date: 3/8/2019
Designer:
Job Name: 200630
Project #:

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B30 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

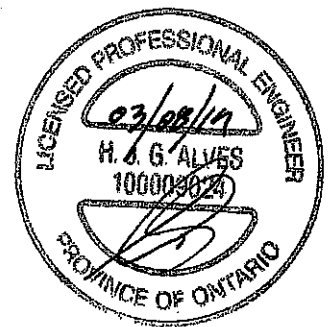
Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity	41.3 %
Load	140.5 PLF
Yield Limit per Foot	340.0 PLF
Yield Limit per Fastener	113.3 lb.
Yield Mode	0
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	1.25D+1.5S+L
Duration Factor	1.00



DWG NO. TAM 1905250
STRUCTURAL
COMPONENT ONLY 2/2

Manufacturer Info

Tamarack Roof Trusses
3289 North Service Rd., ON
Canada
L7N3G2
(805) 335-1115



This design is valid until 12/11/2021