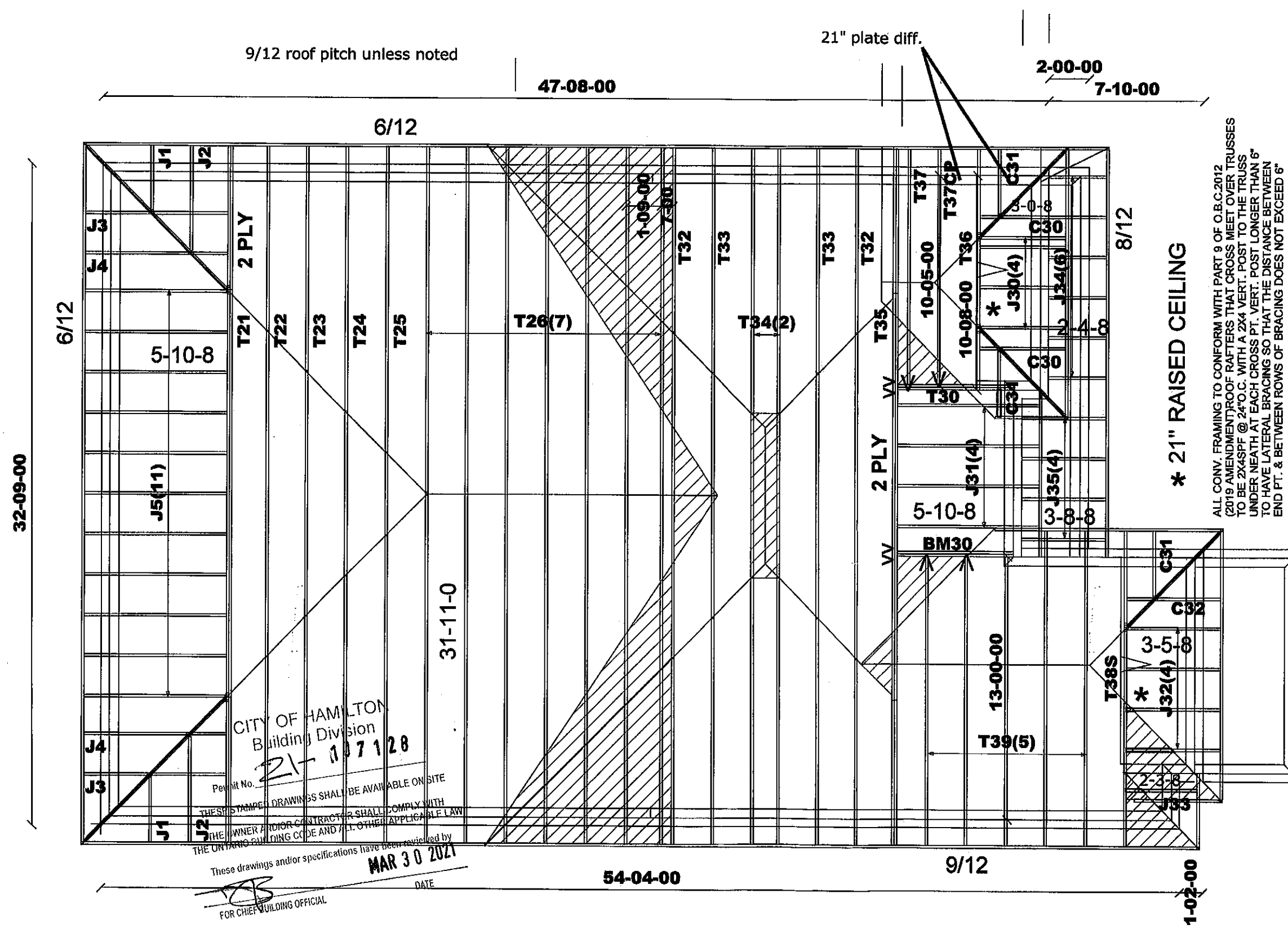




ALL CONV. FRAMING TO CONFORM WITH PART 9 OF O.B.C.2012
(2019 AMENDMENT) ROOF RAFTERS THAT CROSS MEET OVER TRUSSES
TO BE 2X4SPF @ 24\"/>

ASPHALT SHINGLES
12\"/>

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

DENOTES
CONV.
FRAMING

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

BM30 = 2-2X10

 TAMARACK ROOF TRUSSES INC. AFL LUMBER GROUP	Job Track: 51225	Builder / Location: GREEN PARK HOMES / WATERDOWN	Model / Elevation: VALLEYCREEK 5/2	Lot 269
	Plan Log: 202410	Project: RUSSELL GARDENS PH.3		
	Layout ID: 408188	Date: 2020-04-20	Sales: Marlo DiCano	Designer: AC/
	THESE DRAWINGS CONSTITUTE THE PROPERTY OF TAMARACK ROOF TRUSSES INC., SHALL NOT BE REPRODUCED, PUBLISHED, OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.			



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH.3
 Location: WATERDOWN
 Model: VALLEYCREEK 5
 Lot #: 269
 Elevation: 2

Job Track: 51225
 PlanLog: 202410
 Layout ID: 408188
 Ref #
 Page: 1 of 3
 Date: 04-20-2020
 Designer: Andrew Conway
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T21 Hip Girder	6/12	31-11-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	285.1 176.00		
	1	T22 Hip	6/12	31-11-00	5-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	129.52 80.83		
	1	T23 Hip	6/12	31-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	129.12 80.87		
	1	T24 Hip	6/12	31-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	135.61 84.17		
	1	T25 Hip	6/12	31-11-00	8-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	131.28 82.50		
	7	T26 Hip	6/12	31-11-00	9-01-12	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	904.65 585.83		
	1 2-ply	T30 Flat Girder	0/12	5-10-08	1-09-00	2 x 6		1-09-00 1-09-00	54.63 32.67		
	2	T32 Hip	9/12	31-11-00	7-05-02	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	296.23 185.67		
	2	T33 Hip	9/12	31-11-00	8-11-02	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	309.9 195.67		
	2	T34 Hip	9/12	31-11-00	10-05-02	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	330.99 204.67		
	1 2-ply	T35 Hip Girder	9/12	31-11-00	5-11-02	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	315.75 200.67		
	1	T36 Hip Girder	9/12	10-08-00	3-09-10	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	49.02 32.33		
	1	T37 Common	9/12	10-05-00	7-01-00	2 x 4	1-03-08 1-03-08	3-01-00 3-03-04	51.41 32.83		
	1	T37CP Hip	9/12	10-05-00	6-10-06	2 x 4	1-03-08 1-03-08	3-01-00 3-03-04	53.15 34.00		

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH.3
 Location: WATERDOWN
 Model: VALLEYCREEK 5
 Lot #: 269
 Elevation: 2

Job Track: 51225
 PlanLog: 202410
 Layout ID: 408188
 Ref #
 Page: 2 of 3
 Date: 04-20-2020
 Designer: Andrew Conway
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	T38S Hip Girder	9/12	13-00-00	5-10-06	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	61.69 41.60		
	5	T39 Common	9/12	13-00-00	7-03-04	2 x 4	1-03-08 1-03-08	1-06-04 3-03-04	302.69 192.50		
	2	J1 Jack-Open	6/12	1-10-15	2-01-08	2 x 4	1-03-08 1-01	1-02-00 2-01-08	14.65 9.33		
	2	J2 Jack-Open	6/12	2-00-00	3-01-08	2 x 4	1-03-08 1-10-15	1-02-00 2-02-00	19.75 12.00		
	2	J3 Jack-Open	6/12	1-10-15	2-01-08	2 x 4	1-03-08 3-11-09	1-02-00 2-01-08	23.48 14.67		
	2	J4 Jack-Open	6/12	3-10-15	3-01-08	2 x 4	1-03-08 1-11-09	1-02-00 3-01-08	28.58 17.33		
	11	J5 Jack-Open	6/12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	184.74 117.33		
	4	J30 Jack-Open	9/12	3-00-08	3-09-10	2 x 4	1-03-08	1-06-04 3-09-10	51.64 38.00		
	4	J31 Jack-Open	9/12	5-10-08	5-11-02	2 x 4	1-03-08	1-06-04 5-11-02	80.72 54.00		
	4	J32 Jack-Open	9/12	3-05-08	4-01-06	2 x 4	1-03-08	1-06-04 4-01-06	55.92 40.87		
	1	J33 Jack-Open	9/12	2-03-08	3-02-14	2 x 4	1-03-08	1-06-04 3-02-14	10.86 8.17		
	6	J34 Jack-Open	8/12	2-04-08	2-09-09	2 x 4	1-03-08	4-07 1-05-02	50.72 36.00		
	4	J35 Jack-Open	8/12	3-08-08	3-08-03	2 x 4	1-03-08	4-07 2-03-13	47.21 32.00		
	2	C30 Jack-Open	9/12	1-10-15	2-11-07	2 x 4	1-03-08 1-01-09	1-06-04 2-11-07	21.81 16.67		

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH.3
 Location: WATERDOWN
 Model: VALLEYCREEK 5
 Lot #: 269
 Elevation: 2

Job Track: 51225
 PlanLog: 202410
 Layout ID: 408188
 Ref #
 Page: 3 of 3
 Date: 04-20-2020
 Designer: Andrew Conway
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	3	C31 Jack-Open	9/12	1-10-15	2-11-07	2 x 4	1-03-08 1-01	1-06-04 2-11-07	29.15 21.00		
	1	C32 Jack-Open	9/12	1-10-15	2-11-07	2 x 4	1-03-08 1-06-09	1-06-04 2-11-07	11.38 8.33		

TOTAL # TRUSS= 80

TOTAL BFT OF ALL TRUSSES= 2648.01 BFT.

TOTAL WEIGHT OF ALL TRSSES 4171.25 LBS

HARDWARE

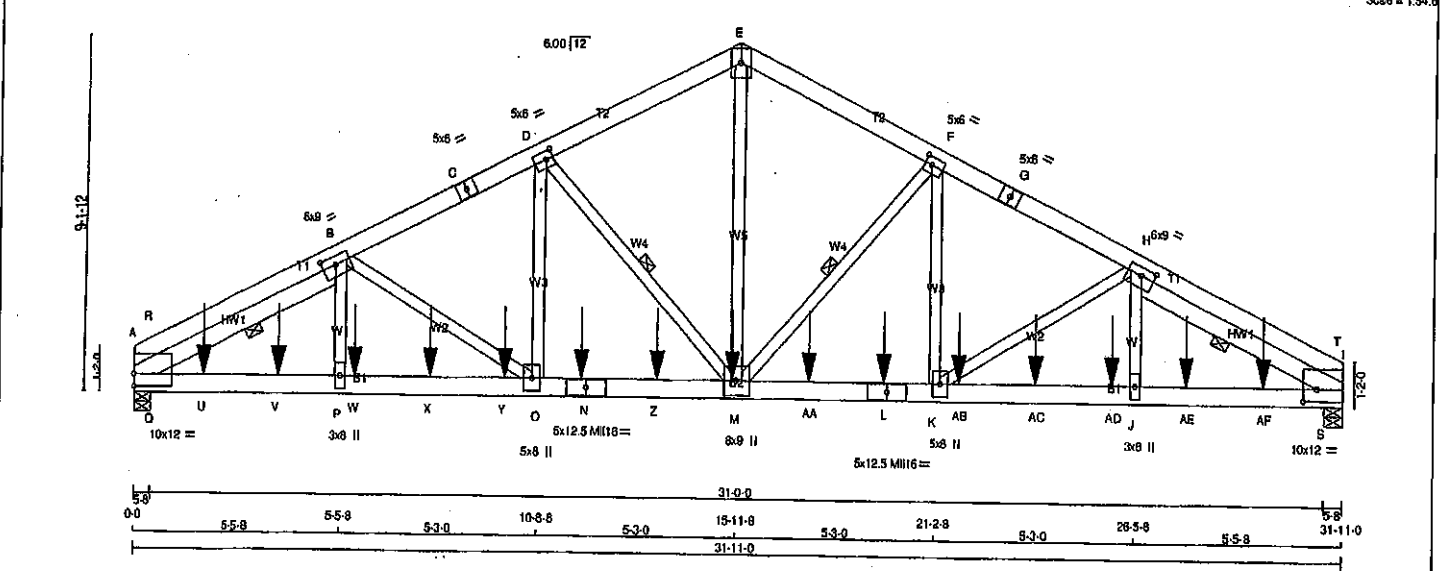
QTY	TYPE	MODEL	LENGTH
4	Hardware	LJS26DS	
2	Hardware	LUS26-2	

TOTAL NUMBER OF
ITEMS=

6

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408187	T1	1	2	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington
Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:17:44 2020 Page 1
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21-28 26-5-8 31-11-0
Scale = 1/4" = 1'-0"



LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	DRY	LUMBER	DESCR.	SPF	FACTORED	MAXIMUM FACTORED
A - C	2x6	DRY	No.2	SPF	JT VERT	GROSS REACTION	MAXIMUM FACTORED
C - E	2x6	DRY	No.2	SPF	A 9724	0	9724
E - G	2x6	DRY	No.2	SPF	I 9642	0	9642
G - I	2x6	DRY	No.2	SPF			
A - N	2x6	DRY	2100F 1.8E	SPF			
N - L	2x6	DRY	2100F 1.8E	SPF			
L - I	2x6	DRY	2100F 1.8E	SPF			

REINFORCING MEMBERS

HW1	2x6	DRY	No.2	SPF
HW2	2x6	DRY	No.2	SPF

ALL WEBS 2x4 DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122'X3") SPIRAL NAILS		
A-C	2	12
C-E	2	12
E-G	2	12
G-I	2	12
BOTTOM CHORDS : (0.122'X3") SPIRAL NAILS		
A-N	2	12
N-L	2	12
L-I	2	12
WEBS : (0.122'X3") SPIRAL NAILS		
M-E	1	6
B-P	1	6
2x4	1	6
2x6	2	6

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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 (tablets in inches)			
JT TYPE	PLATES	W	LEN Y X
A TM8MW+1	MT20	10.0	12.0 3.75
B TM8WW+1	MT20	6.0	9.0 2.50 4.25
C TS-1	MT20	5.0	6.0
D TM8WW+1	MT20	5.0	6.0 2.50 2.25
E TTW+P	MT20	8.0	9.0
F TM8WW+1	MT20	5.0	6.0 2.50 2.25
G TS-1	MT20	5.0	6.0
H TM8WW+1	MT20	8.0	9.0 2.50 4.25
I TM8MW+1	MT20	10.0	12.0 3.75 4.50
J BM8W+1	MT20	3.0	6.0
K BM8W+1	MT20	5.0	6.0
L BS-1	MT18	5.0	12.5
M BM8WWH	MT20	8.0	9.0
N BS-1	MT16	5.0	12.5
O BM8W+1	MT20	5.0	6.0
P BM8W+1	MT20	3.0	6.0

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
JT	VERT	HORZ	FACTORED	MAXIMUM FACTORED	INPUT	REQD			
A	9724	0	9724	0	5-8	5-8			
I	9642	0	9642	0	5-8	5-8			
UNFACTORED REACTIONS									
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL		
A	6884	4578	0	0	0	0	0		
I	6805	4539	0	0	0	0	0		
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) A, I									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.05 FT.									
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.									
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.									
1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-M, D-M, B-Q, H-S.									
LOADING									
TOTAL LOAD CASES: (4)									

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-R	-12896.0	-91.8 -91.8 0.44 (1)	3.11	M-E	0:9101	0.80 (1)	
R-B	-7103.0	-91.8 -91.8 0.29 (1)	4.28	M-F	-4061.0	0.82 (1)	
B-C	-13576.0	-91.8 -91.8 0.45 (1)	3.08	K-F	0:3829	0.34 (1)	
C-D	-13576.0	-91.8 -91.8 0.45 (1)	3.08	K-H	-1787.0	0.42 (1)	
D-E	-10688.0	-91.8 -91.8 0.29 (1)	3.59	J-H	0:2850	0.25 (1)	
E-F	-10688.0	-91.8 -91.8 0.29 (1)	3.59	D-M	-4017.0	0.61 (1)	
F-G	-13808.0	-91.8 -91.8 0.46 (1)	3.05	O-D	0:3782	0.33 (1)	
G-H	-13808.0	-91.8 -91.8 0.46 (1)	3.05	B-O	-1789.0	0.43 (1)	
H-T	-7040.0	-91.8 -91.8 0.30 (1)	4.27	P-B	0:2856	0.25 (1)	
T-I	-12554.0	-91.8 -91.8 0.44 (1)	3.13	Q-R	0:7492	0.00 (1)	
A-Q	0 6285	-18.5 -18.5 0.29 (1)	10.00	Q-B	-5985.0	0.82 (1)	
Q-U	0 13720	-18.5 -18.5 0.55 (1)	10.00	H-S	-5067.0	0.62 (1)	
U-V	0 13720	-18.5 -18.5 0.55 (1)	10.00	S-T	0 7387	0.00 (1)	
V-P	0 13720	-18.5 -18.5 0.55 (1)	10.00				
P-W	0 13695	-18.5 -18.5 0.59 (1)	10.00				
W-X	0 13656	-18.5 -18.5 0.59 (1)	10.00				
X-Y	0 13656	-18.5 -18.5 0.59 (1)	10.00				
Y-O	0 13656	-18.5 -18.5 0.59 (1)	10.00				
O-N	0 12188	-18.5 -18.5 0.56 (1)	10.00				
N-Z	0 12188	-18.5 -18.5 0.56 (1)	10.00				
Z-M	0 12188	-18.5 -18.5 0.56 (1)	10.00				
M-A	0 12197	-18.5 -18.5 0.56 (1)	10.00				
A-L	0 12187	-18.5 -18.5 0.56 (1)	10.00				
L-K	0 12197	-18.5 -18.5 0.56 (1)	10.00				
K-B	0 13686	-18.5 -18.5 0.58 (1)	10.00				
B-A	0 13686	-18.5 -18.5 0.58 (1)	10.00				
A-C	0 13686	-18.5 -18.5 0.58 (1)	10.00				
C-D	0 13686	-18.5 -18.5 0.58 (1)	10.00				
D-E	0 13686	-18.5 -18.5 0.58 (1)	10.00				
E-F	0 13686	-18.5 -18.5 0.58 (1)	10.00				
F-G	0 13686	-18.5 -18.5 0.58 (1)	10.00				
G-H	0 13686	-18.5 -18.5 0.58 (1)	10.00				
H-I	0 13686	-18.5 -18.5 0.58 (1)	10.00				
I-J	0 13686	-18.5 -18.5 0.58 (1)	10.00				
J-K	0 13686	-18.5 -18.5 0.58 (1)	10.00				
K-L	0 13686	-18.5 -18.5 0.58 (1)	10.00				
L-M	0 13686	-18.5 -18.5 0.58 (1)	10.00				
M-N	0 13686	-18.5 -18.5 0.58 (1)	10.00				
N-O	0 13686	-18.5 -18.5 0.58 (1)	10.00				
O-P	0 13686	-18.5 -18.5 0.58 (1)	10.00				
P-Q	0 13686	-18.5 -18.5 0.58 (1)	10.00				
Q-R	0 13686	-18.5 -18.5 0.58 (1)	10.00				
R-S	0 13686	-18.5 -18.5 0.58 (1)	10.00				
S-T	0 13686	-18.5 -18.5 0.58 (1)	10.00				

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
L	19-10-4	-1058	-1058		BACK	VERT	TOTAL		C1
M	15-10-4	-1058	-1058		BACK	VERT	TOTAL		C1
N	11-10-4	-1058	-1058		BACK	VERT	TOTAL		C1
U	1-10-4	-1058	-1058		BACK	VERT	TOTAL		C1
V	3-10-4	-1058	-1058		BACK	VERT	TOTAL		C1

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF

DL = 8.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

PART 9 OF BCBC 2018, OBC 2012, ABC 2019

PART 9 OF OBC 2012 (2019 AMENDMENT)

CSA 086-09, CSA 086-14

TPIC 2011, TPIC 2014

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

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

CALCULATED VERT. DEFL.(LL)= L/999 (0.21")

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

CALCULATED VERT. DEFL.(TL)= L/999 (0.38")

CSI: TC=0.48/1.00 (F-H:1), BC=0.59/1.00 (O-P:1), WB=0.80/1.00 (E-M:1), SSI=0.59/1.00 (O-P:1)

DDL LUMBER=1.00 NAIL=1.00 LS BEND=1.00

COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 618 354 1667 788 1667 1665

MT16 438 276 2341 1245 4283 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

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

04/20/20

H. J. G. ALVES

100009024

LICENSED PROFESSIONAL ENGINEER

PROVINCE OF ONTARIO

Structural component only

DWG# T-2006424

CONTINUED ON PAGE 2

JOB NAME 408187	TRUSS NAME T1	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

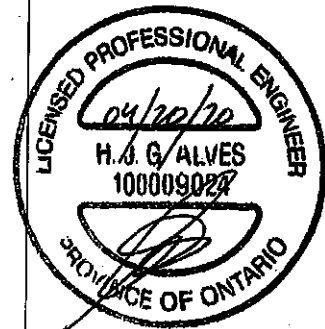
Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:17:44 2020 Page 2
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FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
W	5-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
X	7-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
Y	9-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
Z	13-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
AA	17-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
AB	21-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
AC	23-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
AD	25-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
AE	27-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
AF	29-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

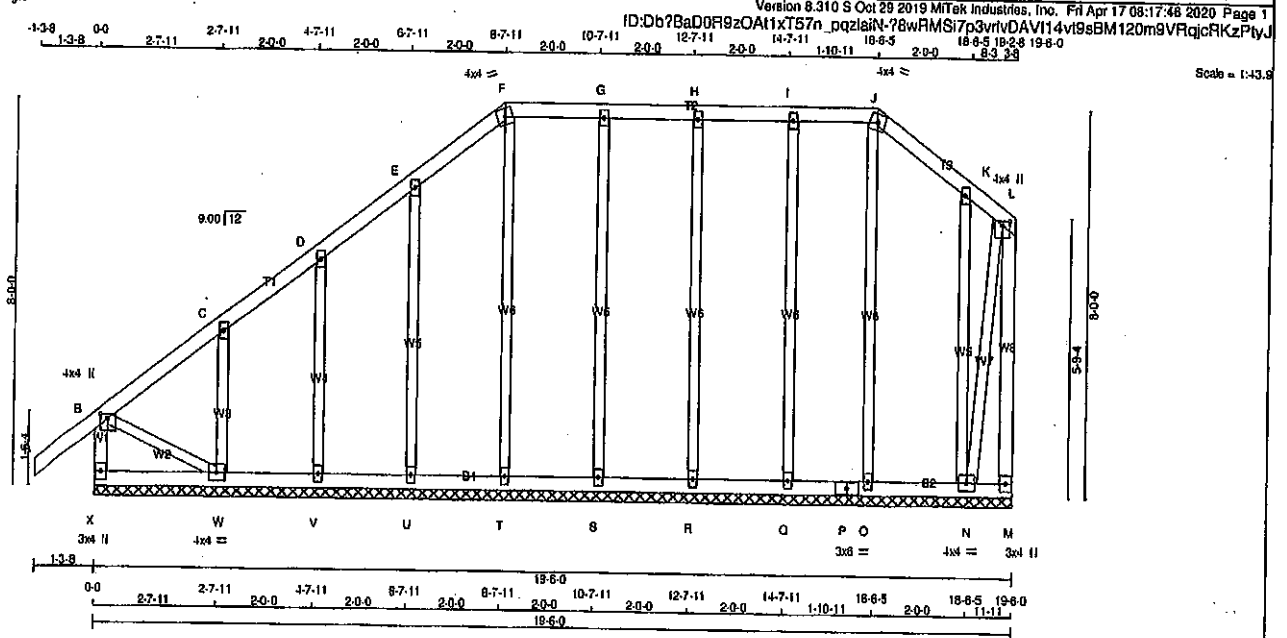
- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2006424

72

JOB NAME 408187	TRUSS NAME T2G	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Pool Truss, Burlington					



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
X - B	2x4	DRY	No.2	SPF	
A - F	2x4	DRY	No.2	SPF	
F - J	2x4	DRY	No.2	SPF	
J - L	2x4	DRY	No.2	SPF	
M - L	2x4	DRY	No.2	SPF	
X - P	2x4	DRY	No.2	SPF	
P - M	2x4	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
DRY: SEASONED LUMBER.					

GABLE STUDS SPACED AT 2'-0" O.C.

PLATES (Table 1a in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	4.0	4.0	1.00	2.00
C, D, E, G, H, I, K					
C TMW+w	MT20	2.0	4.0		
F TTW-m	MT20	4.0	4.0		
J TTW-m	MT20	4.0	4.0		
L TMVW+p	MT20	4.0	4.0	1.00	2.00
M BMV1+p	MT20	3.0	4.0		
N BMW1+1	MT20	4.0	4.0		
O, Q, R, S, T, U, V					
O BMV1+w	MT20	2.0	4.0		
P BS-1	MT20	3.0	8.0		
W BMW1+1	MT20	4.0	4.0		
X BMV1+p	MT20	3.0	4.0		

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	
FR-TO				FR-TO			
X-B	-247.0	0.0	0.03 (1)	T-F	-147.0	0.18 (1)	
A-B	0.38	-91.8	-91.8 0.12 (1)	O-J	-139.0	0.17 (1)	
B-C	-8.0	-91.8	-91.8 0.08 (1)	B-W	0.119	0.00 (1)	
C-D	-24.0	-91.8	-91.8 0.08 (1)	W-C	-249.0	0.05 (1)	
D-E	-5.0	-91.8	-91.8 0.05 (1)	V-D	-188.0	0.06 (1)	
E-F	-17.0	-91.8	-91.8 0.05 (1)	U-E	-207.0	0.15 (1)	
F-G	-3.0	-91.8	-91.8 0.05 (1)	N-L	-178.0	0.13 (1)	
G-H	-3.0	-91.8	-91.8 0.05 (1)	N-L	0.9	0.00 (1)	
H-I	-3.0	-91.8	-91.8 0.04 (1)	S-G	-211.0	0.28 (1)	
I-J	-3.0	-91.8	-91.8 0.04 (1)	R-H	-178.0	0.22 (1)	
J-K	-14.0	-91.8	-91.8 0.05 (1)	Q-I	-192.0	0.23 (1)	
K-L	0.14	-91.8	-91.8 0.04 (1)				
M-L	-30.0	0.0	0.0 0.02 (1)				
X-W	0.0	-18.5	-18.5 0.03 (4)				
W-V	0.11	-18.5	-18.5 0.03 (4)				
V-U	0.8	-18.5	-18.5 0.02 (4)				
U-T	0.5	-18.5	-18.5 0.02 (4)				
T-S	0.3	-18.5	-18.5 0.01 (4)				
S-R	0.3	-18.5	-18.5 0.02 (4)				
R-Q	0.3	-18.5	-18.5 0.02 (4)				
Q-P	0.3	-18.5	-18.5 0.01 (4)				
P-O	0.3	-18.5	-18.5 0.01 (4)				
O-N	0.5	-18.5	-18.5 0.01 (4)				
N-M	0.0	-18.5	-18.5 0.01 (4)				

TOTAL WEIGHT = 2 X 110 = 220 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.03/1.00 (V-W:4), WB=0.26/1.00 (G-S: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

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

NAIL VALUES

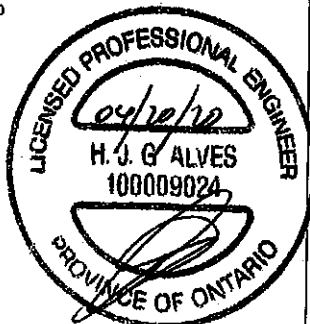
PLATE	CRIPDRY	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618	354	1667
	788	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

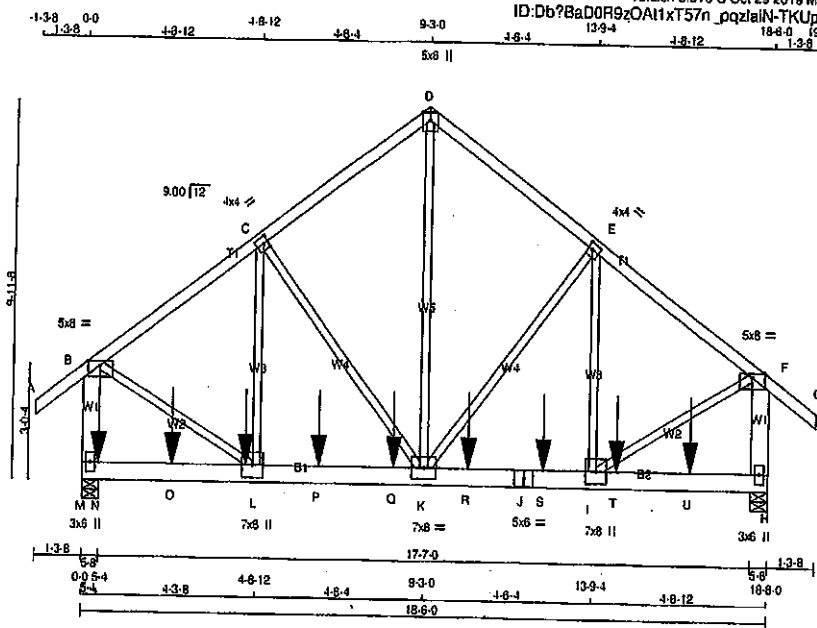
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.62 (J) (INPUT = 0.90)

JSI METAL= 0.13 (C) (INPUT = 1.00)



Structural component only
DWG# T-2006426



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
M - B	2x6	DRY	No.2
H - F	2x6	DRY	No.2
M - J	2x6	DRY	No.2
J - H	2x6	DRY	No.2

ALL WEBS 2x3 DRY No.2 SPF

EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-D 1 12		TOP
D-G 1 12		TOP
M-B 2 12		SIDE(154.9)
H-F 2 12		TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
M-J 2 12		SIDE(183.1)
J-H 2 12		SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
C-L 1 8		SIDE(92.5)
2x3 1 8		

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE PLATES				
B TMWV-p MT20	5.0	8.0	Edge	
C TMWV-t MT20	4.0	4.0	2.00	1.50
D TTWV-p MT20	5.0	8.0	Edge	
E TMWV-t MT20	4.0	4.0	2.00	1.50
F TMWV-p MT20	5.0	8.0	Edge	
H BMV1+p MT20	3.0	6.0		
I BMWV-t MT20	7.0	8.0		
J BS-t MT20	5.0	6.0		
K BMWV-t MT20	7.0	8.0		
L BMWV-t MT20	7.0	8.0		
M 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		RECORD	
JT	GROSS REACTION	VERT	HORZ	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
M	6306	0	0	6306	0	0	5-8	5-8	5-8
H	5500	0	0	5500	0	0	5-8	5-8	5-8

UNFACTORED REACTIONS		1ST CASE		MAX. MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
M	4449	2978	0	0	0
H	3880	2500	0	0	0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.33 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 38	-91.8 -91.8 0.07 (1)	10.00	K-D	0 / 4104	0.51 (1)	
B-C	-4464 / 0	-91.8 -91.8 0.27 (1)	4.33	K-E	-1029 / 0	0.60 (1)	
C-D	-3719 / 0	-91.8 -91.8 0.23 (1)	4.70	J-E	0 / 777	0.10 (1)	
D-E	-3719 / 0	-91.8 -91.8 0.23 (1)	4.70	C-K	-1075 / 0	0.62 (1)	
E-F	-4430 / 0	-91.8 -91.8 0.27 (1)	4.35	L-C	0 / 835	0.10 (1)	
F-G	0 / 38	-91.8 -91.8 0.07 (1)	10.00	B-L	0 / 4101	0.51 (1)	
M-B	-4977 / 0	0.0 0.0 0.27 (1)	6.52	I-F	0 / 4070	0.50 (1)	
H-F	-4941 / 0	0.0 0.0 0.27 (1)	6.53				
M-N	0 / 0	-18.5 -18.5 0.39 (1)	10.00				
N-O	0 / 0	-18.5 -18.5 0.39 (1)	10.00				
O-L	0 / 0	-18.5 -18.5 0.39 (1)	10.00				
L-P	0 / 3591	-18.5 -18.5 0.57 (1)	10.00				
P-Q	0 / 3591	-18.5 -18.5 0.57 (1)	10.00				
Q-K	0 / 3591	-18.5 -18.5 0.57 (1)	10.00				
K-R	0 / 3584	-18.5 -18.5 0.57 (1)	10.00				
R-J	0 / 3584	-18.5 -18.5 0.57 (1)	10.00				
J-S	0 / 3584	-18.5 -18.5 0.57 (1)	10.00				
S-I	0 / 3584	-18.5 -18.5 0.57 (1)	10.00				
I-T	0 / 0	-18.5 -18.5 0.41 (1)	10.00				
T-U	0 / 0	-18.5 -18.5 0.41 (1)	10.00				
U-H	0 / 0	-18.5 -18.5 0.41 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)		LOC.		MAX.		FACE		DIR.	
JT	LOC.	LC1	MAX.	MAX.	MAX.	FRONT	VERT	TOTAL	HEEL
L	4-5-4	-1056	-1056	---	---	FRONT	VERT	TOTAL	---
N	5-4	-1062	-1062	---	---	FRONT	VERT	TOTAL	---
O	2-5-4	-1056	-1056	---	---	FRONT	VERT	TOTAL	---
P	6-5-4	-1056	-1056	---	---	FRONT	VERT	TOTAL	---
Q	8-5-4	-1056	-1056	---	---	FRONT	VERT	TOTAL	---
R	10-5-4	-1056	-1056	---	---	FRONT	VERT	TOTAL	---
S	12-5-4	-1056	-1056	---	---	FRONT	VERT	TOTAL	---
T	14-5-4	-1056	-1056	---	---	FRONT	VERT	TOTAL	---
U	16-5-4	-1056	-1056	---	---	FRONT	VERT	TOTAL	---

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 109 = 219 LB

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.62")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL) = L/360 (0.62")
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.27/1.00 (B-C:1), BC=0.63/1.00 (H-K:1), WB=0.62/1.00 (C-K:1), SSJ=0.54/1.00 (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

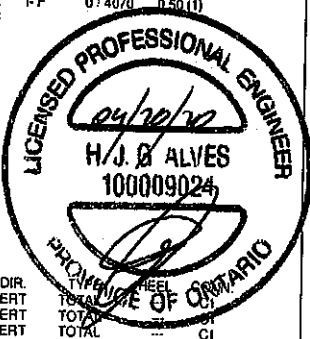
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

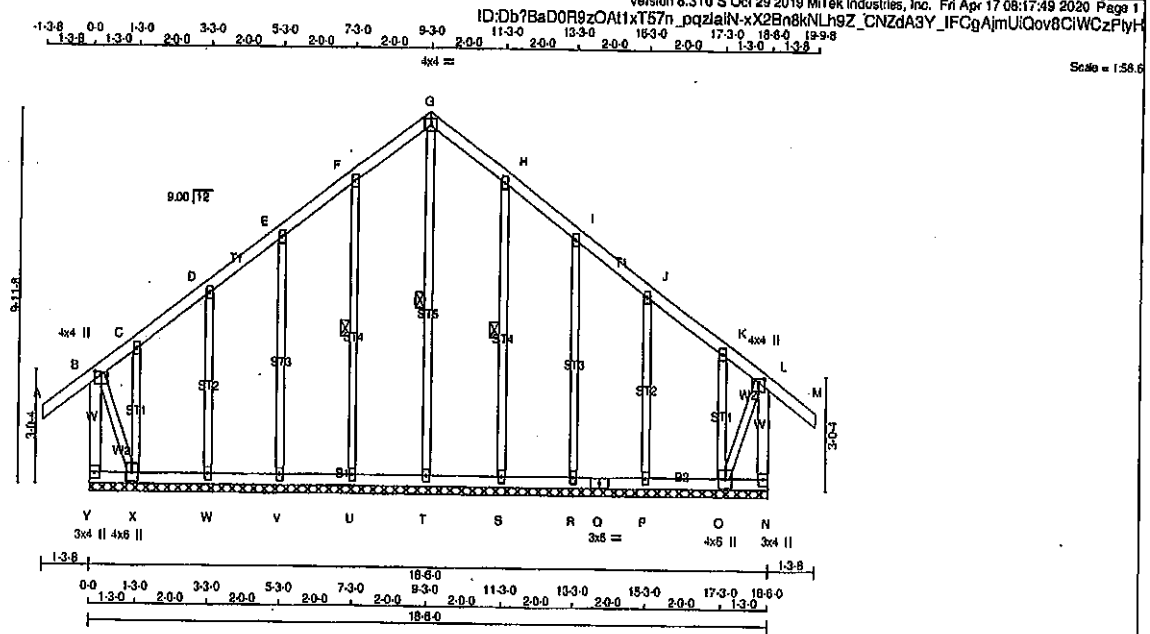
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.84 (K) (INPUT = 0.90)
JSI METAL = 0.57 (J) (INPUT = 1.00)



JOB NAME 408187	TRUSS NAME T4G	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



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

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
C, D, E, F, H, I, J, K						
C	TMVW+p	MT20	2.0	4.0		
G	TTW+p	MT20	4.0	4.0	2.25	2.00
L	TMVW+p	MT20	4.0	4.0	1.00	2.00
N	BMV1+p	MT20	3.0	4.0		
O	BMVW1+p	MT20	4.0	8.0		
P, R, S, T, U, V, W						
P	BMV1+p	MT20	2.0	4.0		
Q	BS4	MT20	3.0	8.0		
X	BMVW1+p	MT20	4.0	8.0		
Y	BMV1+p	MT20	3.0	4.0		

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

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 8.25 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.
1 LATERAL BRACE(S) AT 1/2 LENGTH OF G-T, F-U, H-S.

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

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED UNBRACED LENGTH (FT)	
FR-TO					FR-TO				
A-B	0:38	-91.8	-91.8 0.12 (1)	10.00	T-G	-171:0	0.11 (1)		
B-C	-37:0	-91.8	-91.8 0.12 (1)	6.25	U-F	-210:0	0.10 (1)		
C-D	0:11	-91.8	-91.8 0.05 (1)	10.00	V-E	-174:0	0.14 (1)		
D-E	0:7	-91.8	-91.8 0.05 (1)	10.00	W-D	-195:0	0.09 (1)		
E-F	0:14	-91.8	-91.8 0.05 (1)	10.00	X-C	-88:0	0.02 (1)		
F-G	0:3	-91.8	-91.8 0.05 (1)	10.00	S-H	-210:0	0.10 (1)		
G-H	0:3	-91.8	-91.8 0.05 (1)	10.00	R-I	-174:0	0.14 (1)		
H-I	0:14	-91.8	-91.8 0.05 (1)	10.00	P-J	-195:0	0.09 (1)		
I-J	0:7	-91.8	-91.8 0.05 (1)	10.00	O-K	-88:0	0.02 (1)		
J-K	0:11	-91.8	-91.8 0.05 (1)	10.00	B-X	-4:0	0.00 (1)		
K-L	-37:0	-91.8	-91.8 0.12 (1)	6.25	O-L	-4:0	0.00 (1)		
L-M	0:38	-91.8	-91.8 0.12 (1)	10.00					
Y-B	-240:0	0.0	0.0 0.04 (1)	7.81					
N-L	-240:0	0.0	0.0 0.04 (1)	7.81					
Y-X	0:0	-18.5	-18.5 0.01 (4)	10.00					
X-W	-3:0	-18.5	-18.5 0.02 (4)	10.00					
W-V	-7:0	-18.5	-18.5 0.02 (4)	10.00					
V-U	-9:0	-18.5	-18.5 0.01 (4)	10.00					
U-T	-11:0	-18.5	-18.5 0.01 (4)	6.25					
T-S	-11:0	-18.5	-18.5 0.01 (4)	6.25					
S-R	-9:0	-18.5	-18.5 0.01 (4)	10.00					
R-Q	-7:0	-18.5	-18.5 0.02 (4)	10.00					
Q-P	-7:0	-18.5	-18.5 0.02 (4)	10.00					
P-O	-3:0	-18.5	-18.5 0.02 (4)	10.00					
O-N	0:0	-18.5	-18.5 0.01 (4)	10.00					

TOTAL WEIGHT = 108 lb

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

SPACING = 24.0 IN./C
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS
- OVERHANG NOT TO BE ALTERED OR CUT OFF.
(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CS: TC=0.12/1.00 (L-M:1), BC=0.02/1.00 (P-R:4), WB=0.14/1.00 (R-I:1), SI=0.08/1.00 (L-M:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

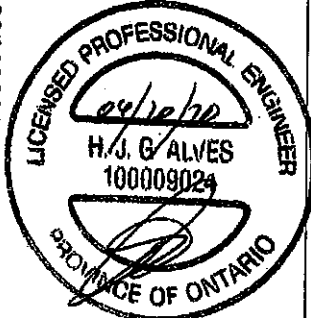
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.49 (L) (INPUT = 0.80)
JSI METAL= 0.11 (H) (INPUT = 1.00)

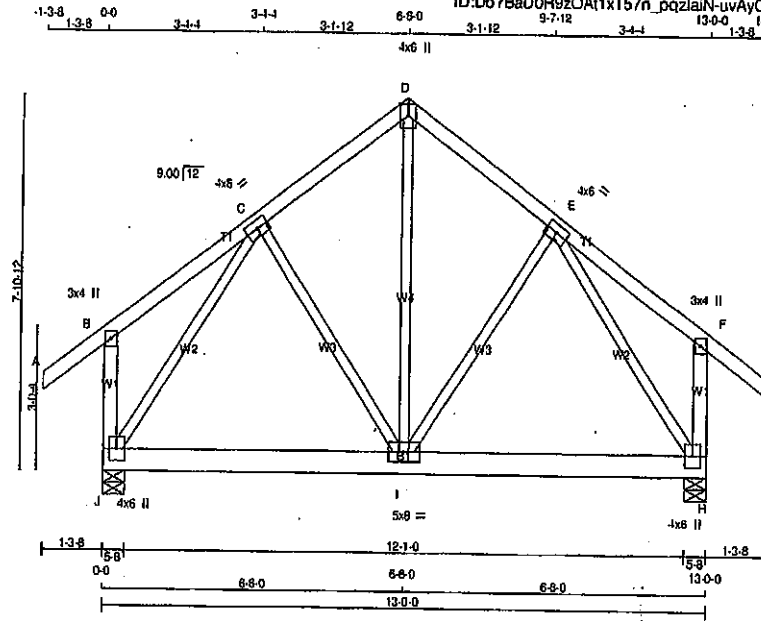


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408187	T5	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:17:50 2020 Page 1
ID:Db7BaD0R9zOA1xT57n_pqzlaiN-uvAyCqleslPHDWWxb603iKW4_CPyT94MShpa6zPlyF

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



LUMBER	CHORDS	SIZE	LUMBER	DESCR.
N.L.G.A. RULES				
A - D	2x4	DRY	No.2	SPF
D - G	2x4	DRY	No.2	SPF
J - B	2x4	DRY	No.2	SPF
H - F	2x4	DRY	No.2	SPF
J - H	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	TMV+p	MT20	3.0	4.0		
C	TMWW-t	MT20	4.0	6.0		
D	TTW+p	MT20	4.0	6.0	Edge	
E	TMWW-t	MT20	4.0	6.0		
F	TMV+p	MT20	3.0	4.0		
H	BMVW1+p	MT20	4.0	6.0		
I	BMVWW-t	MT20	5.0	8.0		
J	BMVW1+p	MT20	4.0	6.0		

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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	IN-SX	IN-SX
J	1493	0	5-8	5-8
H	1493	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
J	1114	403/0	0/0	0/0	711/0	0/0
H	1114	403/0	0/0	0/0	711/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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	VERT. LOAD	LC1	MAX	CS1 (LC)	MAX. UNBRACED LENGTH	FR-TO	MEMB.	MAX. FACTORED	VERT. LOAD	LC1	MAX	CS1 (LC)
A-B	0/38	-91.8	-91.8	0.16	(1)	10.00	10.00	I-D	0/775	0.27	(4)			
B-C	0/19	-91.8	-91.8	0.16	(1)	10.00	10.00	I-E	0/207	0.08	(4)			
C-D	-858/0	-91.8	-91.8	0.19	(1)	5.25	5.25	C-I	0/207	0.08	(4)			
D-E	-858/0	-91.8	-91.8	0.19	(1)	5.25	5.25	J-C	-1134/0	0.70	(1)			
E-F	0/19	-91.8	-91.8	0.16	(1)	10.00	10.00	E-H	-1134/0	0.70	(1)			
F-G	0/38	-91.8	-91.8	0.16	(1)	10.00	10.00							
J-B	-245/0	0.0	0.0	0.04	(1)	7.81	7.81							
H-F	-245/0	0.0	0.0	0.04	(1)	7.81	7.81							
J-I	0/616	-118.5	-118.5	0.84	(4)	10.00	10.00							
I-H	0/616	-118.5	-118.5	0.84	(4)	10.00	10.00							

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C/C

*** NON STANDARD GIRDER ***

ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.43")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CS1: TC=0.19/1.00 (C-D-1), BC=0.84/1.00 (I-J-4), WB=0.70/1.00 (C-J-1), SS1=0.55/1.00 (I-J-4)

DOL LUMBER=0.88 NAIL=0.88 LS BEND=1.00
COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

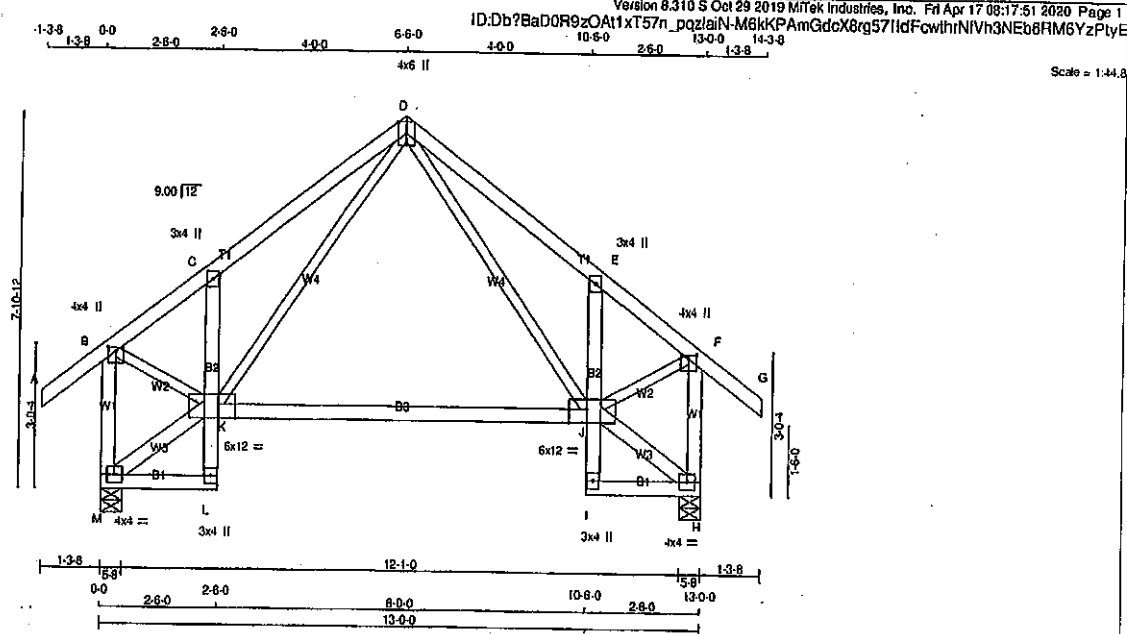
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.76 (E) (INPUT = 0.90)
JSI METAL = 0.32 (H) (INPUT = 1.00)

Structural component only
DWG# T-2006429



JOB NAME 408187	TRUSS NAME T5S	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



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

DRY: SEASONED LUMBER.

PLATES (table in inches)				
JT TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0 1.00 2.00
C	TMV+p	MT20	3.0	4.0
D	TTWW+p	MT20	4.0	8.0 Edge
E	TMV+p	MT20	3.0	4.0
F	TMVW+p	MT20	4.0	4.0 1.00 2.00
H	BMVW1-t	MT20	4.0	4.0
I	BMV+p	MT20	3.0	4.0
J	BVMWW1-t	MT20	6.0	12.0 Edge 4.50
K	BVMWW1-t	MT20	6.0	12.0 Edge 4.50
L	BMV+p	MT20	3.0	4.0
M	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

FACTORED		MAXIMUM FACTORED		INPUT		REQD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
VERT	HORZ	DOWN	HORZ	UPL/FT	IN-SX	IN-SX	
JT							
M	843	0	843	0	5-8	5-8	
H	843	0	843	0	5-8	5-8	

UNFACTORED REACTIONS

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

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO				FR-TO			
A-B	0 / 38	-91.8	-91.8 0.12 (1)	D-J	0 / 268	0.08 (1)	
B-C	-608 / 0	-91.8	-91.8 0.15 (1)	K-D	0 / 268	0.08 (1)	
C-D	-655 / 0	-91.8	-91.8 0.19 (1)	M-K	-8 / 0	0.00 (1)	
D-E	-655 / 0	-91.8	-91.8 0.19 (1)	B-K	0 / 578	0.13 (1)	
E-F	-608 / 0	-91.8	-91.8 0.15 (1)	J-H	-8 / 0	0.00 (1)	
F-G	0 / 38	-91.8	-91.8 0.12 (1)				
M-B	-817 / 0	0.0	0.0 0.13 (1)				
H-F	-817 / 0	0.0	0.0 0.13 (1)				
M-L	0 / 7	-18.5	-18.5 0.03 (4)				
L-K	0 / 24	0.0	0.0 0.02 (1)				
K-C	-387 / 0	0.0	0.0 0.02 (1)				
K-J	0 / 358	-18.5	-18.5 0.40 (4)				
I-J	0 / 24	0.0	0.0 0.02 (1)				
J-E	-387 / 0	0.0	0.0 0.02 (1)				
I-H	0 / 7	-18.5	-18.5 0.03 (4)				

TOTAL WEIGHT = 2 X 74 = 147 lb [M/F]

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

(5% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.43")
CALCULATED VERT. DEFL. (LL) = L/999 (0.01")
ALLOWABLE DEFL. (TL) = L/360 (0.43")
CALCULATED VERT. DEFL. (TL) = L/678 (0.23")

CSI: TC=0.19/1.00 (C-D:1), BC=0.40/1.00 (J-K:4), WB=0.13/1.00 (B-K:1), SS=0.14/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

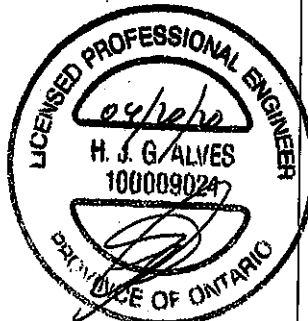
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

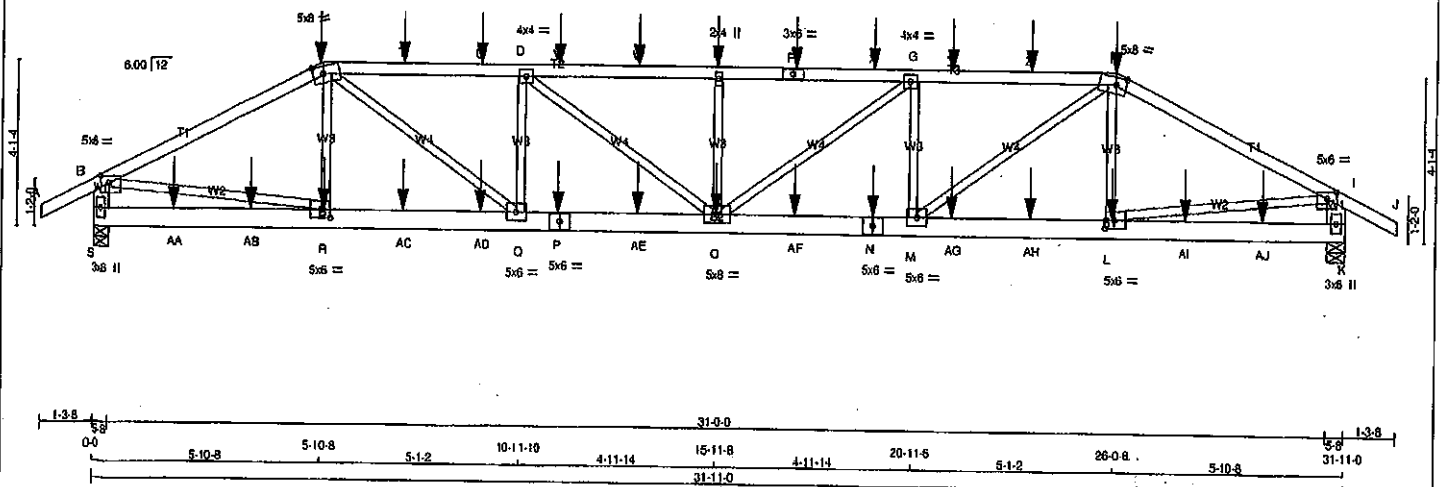
PLATE ROTATION TOL. = 5.0 Deg.

ISI GRIP= 0.74 (B) (INPUT = 0.90)
ISI METAL= 0.20 (F) (INPUT = 1.00)



Structural component only
DWG# T-2006430

JOB NAME 408187	TRUSS NAME T21	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.310 S Oct 28 2019 Mitek Industries, Inc. Fri Apr 17 08:17:52 2020 Page 1	
ID:1ebEM4Ca92xn94Zv7jkFPizmBR3-qlllcWnuOv7TgKs78U97PnLn_yQRiNqmAwI_zPtyD				31-11-0 33-2-8 1-3-8	
1-3-8 04 1-3-8 5-10-8 5-10-8 5-1-2 10-11-10 4-11-14 15-11-8 4-11-14 20-11-6 5-1-2 28-0-8 5-10-8 31-11-0				Scale = 1:52.6	



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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C	12	SIDE(61.0)
C - F	12	SIDE(61.0)
F - H	12	SIDE(61.0)
H - J	12	SIDE(61.0)
S - B	2	TOP
K - I	2	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
S - 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(0.5)
L - H	1	SIDE(0.5)
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table in inches)	PLATES	W	LEN	Y	X
JT TYPE	MT20	5.0	8.0	2.00	2.75
B	TMWW-p	MT20	5.0	8.0	2.25 3.00
C	TTWW-m	MT20	5.0	8.0	
D	TMWW-i	MT20	4.0	4.0	
E	TMWW-w	MT20	2.0	4.0	
F	TS-1	MT20	3.0	6.0	
G	TMWW-i	MT20	4.0	4.0	
H	TTWW-m	MT20	5.0	8.0	2.25 3.00
I	TMWW-p	MT20	5.0	8.0	2.00 2.75
K	BMV1-p	MT20	3.0	6.0	
L	BMWW-i	MT20	5.0	6.0	2.50 2.75
M	BMWW-i	MT20	5.0	6.0	
N	BS-1	MT20	5.0	8.0	
O	BMWWH	MT20	5.0	8.0	
P	BS-1	MT20	5.0	8.0	
Q	BMWW-i	MT20	5.0	6.0	
R	BMWW-i	MT20	5.0	6.0	2.50 2.75
S	BMV1-p	MT20	3.0	6.0	

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	3049	3049	0	5-8
S	3047	3047	0	5-8
K	3047	3047	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX. MIN. COMPONENT REACTIONS	WIND	DEAD	SOIL
JT	2155	1415	0	0
S	2155	1415	0	0
K	2155	1415	0	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.48 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (LBS)	MAX. UNBRACED CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CS1 (LC)	
FR-TO		FROM TO	CS1 (LC)	FR-TO			
A-B	0/28	-91.8	-91.8 0.07 (1)	10.00	R-C	-342/39	0.04 (1)
B-C	-4568/0	-91.8	-91.8 0.48 (1)	4.07	C-Q	0/2360	0.29 (1)
C-T	-5980/0	-91.8	-91.8 0.49 (1)	3.57	Q-D	-1232/0	0.19 (1)
T-U	-5980/0	-91.8	-91.8 0.49 (1)	3.57	D-O	0/879	0.08 (1)
U-D	-5980/0	-91.8	-91.8 0.49 (1)	3.57	O-E	-680/0	0.09 (1)
D-V	-6524/0	-91.8	-91.8 0.52 (1)	3.40	O-G	0/883	0.08 (1)
V-W	-6524/0	-91.8	-91.8 0.52 (1)	3.40	M-G	-1232/0	0.19 (1)
W-E	-6524/0	-91.8	-91.8 0.52 (1)	3.40	M-H	0/2360	0.29 (1)
E-F	-6524/0	-91.8	-91.8 0.52 (1)	3.40	L-H	-342/38	0.04 (1)
F-X	-6524/0	-91.8	-91.8 0.52 (1)	3.40	B-R	0/4118	0.51 (1)
X-G	-6524/0	-91.8	-91.8 0.52 (1)	3.40	L-I	0/4115	0.51 (1)
G-Y	-5977/0	-91.8	-91.8 0.49 (1)	3.58			
Y-Z	-5977/0	-91.8	-91.8 0.49 (1)	3.58			
Z-H	-5977/0	-91.8	-91.8 0.49 (1)	3.58			
H-I	-4565/0	-91.8	-91.8 0.48 (1)	4.08			
I-J	0/28	-91.8	-91.8 0.07 (1)	10.00			
J-S	-2971/0	0.0	0.0 0.10 (1)	7.81			
K-I	-2989/0	0.0	0.0 0.10 (1)	7.81			

PROFESSION

S-AA	0/0	-18.5	-18.5 0.07 (4)	10.00
AA-AB	0/0	-18.5	-18.5 0.07 (4)	10.00
AB-R	0/0	-18.5	-18.5 0.07 (4)	10.00
R-AC	0/4074	-18.5	-18.5 0.30 (1)	10.00
AC-AD	0/4074	-18.5	-18.5 0.30 (1)	10.00
AD-Q	0/4074	-18.5	-18.5 0.30 (1)	10.00
Q-AE	0/5980	-18.5	-18.5 0.45 (1)	10.00
AE-O	0/5980	-18.5	-18.5 0.45 (1)	10.00
O-AF	0/5977	-18.5	-18.5 0.45 (1)	10.00
AF-N	0/5977	-18.5	-18.5 0.45 (1)	10.00
N-M	0/5977	-18.5	-18.5 0.45 (1)	10.00
M-AG	0/4071	-18.5	-18.5 0.30 (1)	10.00
AG-AH	0/4071	-18.5	-18.5 0.30 (1)	10.00
AH-L	0/4071	-18.5	-18.5 0.30 (1)	10.00
L-AI	0/0	-18.5	-18.5 0.07 (4)	10.00
AI-AJ	0/0	-18.5	-18.5 0.07 (4)	10.00
AJ-K	0/0	-18.5	-18.5 0.07 (4)	10.00

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX	FACE	DIR.	TYPE	HEEL	CONN.
C	5-10-8	-469	-469	---	FRONT	VERT	TOTAL	C1
E	15-11-4	-110	-110	---	FRONT	VERT	TOTAL	C1
F	17-11-4	-110	-110	---	FRONT	VERT	TOTAL	C1

TOTAL WEIGHT = 2 X 143 = 286 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = U/899 (0.18")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = U/899 (0.33")

CSI: TC=0.52/1.00 (D-E:1), BC=0.45/1.00 (O-Q:1), WB=0.51/1.00 (B-R:1), SSI=0.19/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

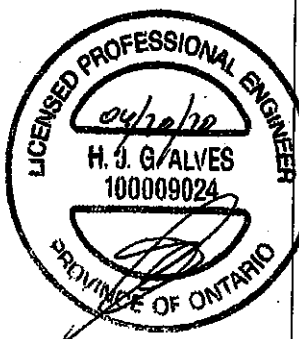
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.90 (I) (INPUT = 0.90)
JSI METAL=0.56 (IN) (INPUT = 1.00)



Structural component only
DWG# T-2008431

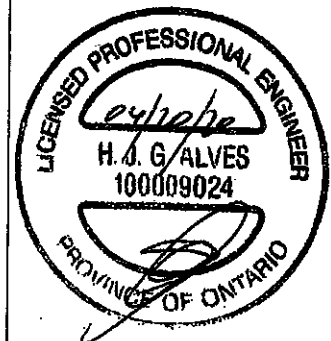
CONTINUED ON PAGE 2

JOB NAME 408187	TRUSS NAME T21	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Floor Truss, Burlington				Version 8.310 S Oct 29 2019 MITek Industries, Inc. Fri Apr 17 08:17:52 2020 Page 2 ID:1ebEM4Ce92xn94Zv7ikFPizmBR3-qlicWnuOv7TggKs78U97PnUn yQRiNmAwf zPtyD	

FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LG1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
H	28-0-8	-489	-489	---	FRONT	VERT	TOTAL	---	C1
L	25-11-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
N	19-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
O	15-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
P	11-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
R	5-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
T	7-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
U	9-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
V	11-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
W	13-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
X	15-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Y	21-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Z	23-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AA	2-0-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AB	4-0-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AC	7-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AD	9-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AE	13-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AF	17-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AG	21-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AH	23-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AI	27-10-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AJ	28-10-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1

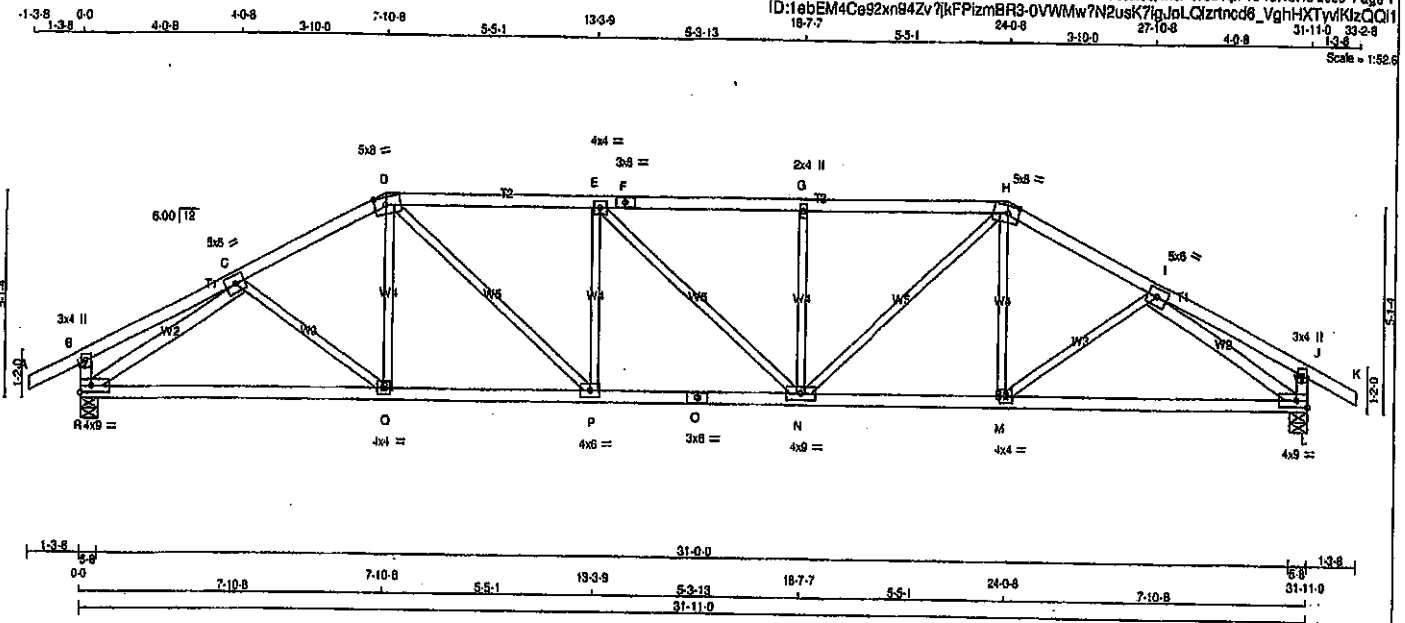
CONNECTION REQUIREMENTS

- 1) C1: A SUITABLE HANGERMECHANICAL CONNECTION IS REQUIRED.



JOB NAME 408130	TRUSS NAME T22	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Wed Apr 15 16:45:48 2020 Page 1
 ID:1abEM4Ca92xn84Zv7jKfPizmBR3-0VWMw7N2usK7i9JoLCiztned6_VghHXTwKizQOI1
 18-7-7 24-0-8 3-10-0 27-10-8 4-0-8 13-8
 Scale = 1:52.6



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

DRY: SEASONED LUMBER.

PLATES (Table in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMV+P	MT20	3.0	4.0
C	TMWW-I	MT20	5.0	6.0
D	TTWW-m	MT20	5.0	8.0 2.25 3.50
E	TMWW-I	MT20	4.0	4.0
F	TS-I	MT20	3.0	6.0
G	TMW+W	MT20	2.0	4.0
H	TTWW-m	MT20	5.0	8.0 2.25 3.50
I	TMWW-I	MT20	5.0	6.0
J	TMV+P	MT20	3.0	4.0
L	BMVW-I	MT20	4.0	9.0 Edge
M	BMWW-I	MT20	4.0	4.0
N	BMVWW-I	MT20	4.0	9.0
O	BS-I	MT20	3.0	6.0
Q	BMWW-I	MT20	4.0	6.0
R	BMVW-I	MT20	4.0	4.0 Edge

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
<u>BEARINGS</u>									
	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG			
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
R	1884	0	1884	0	0	5-8	5-8		
L	1884	0	1884	0	0	5-8	5-8		
<u>UNFACTORED REACTIONS</u>									
	1ST LCASE	MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
R	1330	886 / 0	0 / 0	0 / 0	0 0	444 0	0 0		
L	1330	886 / 0	0 / 0	0 / 0	0 0	444 0	0 0		
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) R, L									
<u>SPACING</u>									

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.61 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
 ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX LG1 (LBS)	MAX LG2 (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LG1 (LBS)	MAX LG2 (LBS)	
FR-TO					FR-TO				
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00	C-Q	0 / 74	0.03 (4)	
B-C	0 / 17	-91.8	-91.8	0.20 (1)	10.00	C-D	0 / 133	0.04 (4)	
C-D	-2489 / 0	-91.8	-91.8	0.30 (1)	4.12	D-P	0 / 933	0.21 (1)	
D-E	-2893 / 0	-91.8	-91.8	0.54 (1)	3.61	P-E	-394 / 0	0.21 (1)	
E-F	-2891 / 0	-91.8	-91.8	0.53 (1)	3.61	E-N	-2 / 0	0.00 (1)	
F-G	-2891 / 0	-91.8	-91.8	0.53 (1)	3.61	N-G	-533 / 0	0.21 (1)	
G-H	-2891 / 0	-91.8	-91.8	0.53 (1)	3.61	N-H	0 / 931	0.21 (1)	
H-I	-2489 / 0	-91.8	-91.8	0.30 (1)	4.12	M-H	0 / 134	0.04 (4)	
I-J	0 / 17	-91.8	-91.8	0.20 (1)	10.00	M-I	0 / 74	0.03 (4)	
J-K	0 / 28	-91.8	-91.8	0.12 (1)	10.00	R-C	-2668 / 0	0.74 (1)	
R-B	-269 / 0	0.0	0.0	0.03 (1)	7.81	I-L	-2667 / 0	0.74 (1)	
L-J	-269 / 0	0.0	0.0	0.03 (1)	7.81				
R-Q	0 / 2167	-18.5	-18.5	0.49 (1)	10.00				
Q-P	0 / 2194	-18.5	-18.5	0.48 (1)	10.00				
P-O	0 / 2693	-18.5	-18.5	0.53 (1)	10.00				
O-N	0 / 2893	-18.5	-18.5	0.53 (1)	10.00				
N-M	0 / 2194	-18.5	-18.5	0.49 (1)	10.00				
M-L	0 / 2168	-18.5	-18.5	0.49 (1)	10.00				

DESIGN CRITERIA	
SPECIFIED LOADS:	
TOP CH. LL	= 25.8 PSF
DL	= 6.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 PSF
SPACING	= 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM
 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:
 - PART 9 OF CBC 2010, CBC 2012, ABC 2010
 - PART 9 OF CBC 2012 (2019 AMENDMENT)
 - CSA 088-09, CSA 086-14
 - TPOG 2011, TPOG 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.06")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
 ALLOWABLE DEFL.(TL) = L/360 (1.06")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.89")
 CSI: TC=0.54/1.00 (D-E:1), BC=0.53/1.00 (N-P:1), WB=0.74/1.00 (L:1), SS=0.23/1.00 (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

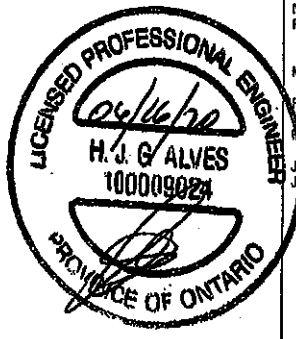
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

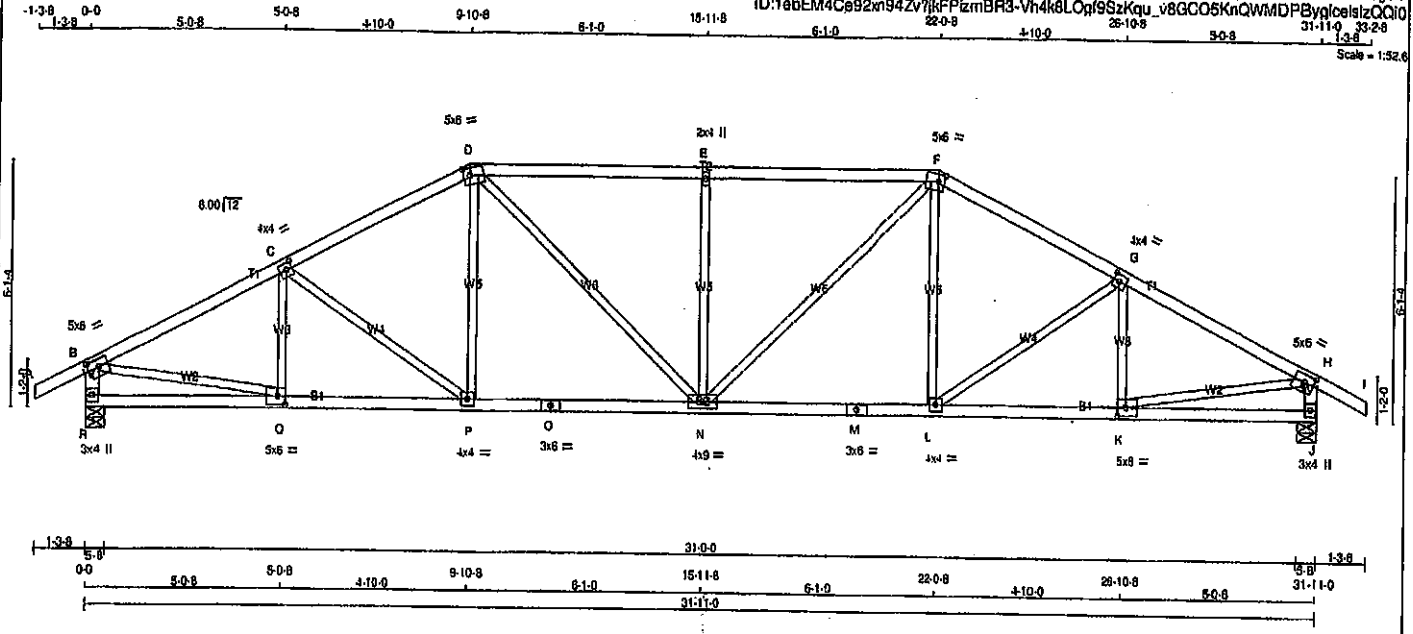
J GRIP = 0.84 (O) (INPUT = 0.80)
 J METAL = 0.94 (O) (INPUT = 1.00)



Structural component only
 DWG# T-2006317

JOB NAME 408130	TRUSS NAME T23	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Wed Apr 15 16:45:49 2020 Page 1
 ID:1ebEM4Ce92m94Zv7kFPizmBR3-Vh4k8LQp9SSzKqu_v8GCO5KnQWMDPBvgicelszQQ10
 31-11-0 33-28
 Scale = 1:52.6



LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-1	MT20	5.0	8.0	2.25	2.75
C	TMVW-1	MT20	4.0	4.0	2.00	1.75
D	TTWW-m	MT20	5.0	8.0	2.25	2.00
E	TMVW-w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	8.0	2.25	2.00
G	TMVW-1	MT20	4.0	4.0	2.00	1.75
H	TMVW-1	MT20	5.0	8.0	2.25	2.75
J	BMV1+p	MT20	3.0	4.0		
K	BMVW-1	MT20	5.0	8.0	2.50	2.50
L	BMVW-1	MT20	4.0	4.0		
M	BS-1	MT20	3.0	6.0		
N	BMVWW-1	MT20	4.0	9.0		
O	BS-1	MT20	3.0	6.0		
P	BMVW-1	MT20	4.0	4.0		
Q	BMVW-1	MT20	5.0	8.0	2.50	2.50
R	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
R	1884	0	1884	0	5-8	5-8
J	1884	0	1884	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX/MIN COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
R	1330	888 / 0	0 / 0	0 / 0	0	444	0
J	1330	888 / 0	0 / 0	0 / 0	0	444	0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.82 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1		MAX. UNBRACED LENGTH	FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	
		FROM	TO				FR-TO	TO
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00	C-C	-301	0
B-C	-2538 / 0	-91.8	-91.8	0.37 (1)	4.02	C-P	-284	0
C-D	-2342 / 0	-91.8	-91.8	0.35 (1)	4.17	P-D	0	257
D-E	-2493 / 0	-91.8	-91.8	0.54 (1)	3.82	D-N	0	575
E-F	-2493 / 0	-91.8	-91.8	0.54 (1)	3.82	N-E	-685	0
F-G	-2342 / 0	-91.8	-91.8	0.35 (1)	4.17	N-F	0	575
G-H	-2538 / 0	-91.8	-91.8	0.37 (1)	4.02	L-F	0	257
H-I	0 / 28	-91.8	-91.8	0.12 (1)	10.00	L-G	-284	0
R-B	-1841 / 0	0.0	0.0	0.19 (1)	8.17	K-G	-301	0
J-H	-1841 / 0	0.0	0.0	0.19 (1)	8.17	B-Q	0	2323
R-Q	0 / 0	-18.5	-18.5	0.10 (4)	10.00	K-H	0	2323
Q-P	0 / 2290	-18.5	-18.5	0.43 (1)	10.00			
P-O	0 / 2077	-18.5	-18.5	0.40 (1)	10.00			
O-N	0 / 2077	-18.5	-18.5	0.40 (1)	10.00			
N-M	0 / 2077	-18.5	-18.5	0.40 (1)	10.00			
M-L	0 / 2077	-18.5	-18.5	0.40 (1)	10.00			
L-K	0 / 2290	-18.5	-18.5	0.43 (1)	10.00			
K-J	0 / 0	-18.5	-18.5	0.10 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 26.6 PSF
 DL = 6.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.4 PSF
 TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/G

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.0/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:
 - PART 9 OF CBC 2015, CBC 2012, ABC 2019
 - PART 9 OF CBC 2012 (2019 AMENDMENT)
 - CSA 088-09, CSA 086-14
 - TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.08")
CALCULATED VERT. DEFL.(LL) = L/899 (0.13")
ALLOWABLE DEFL.(TL) = L/360 (1.08")
CALCULATED VERT. DEFL.(TL) = L/899 (0.24")

CSI: TC=0.54/1.00 (D-E:1), BC=0.43/1.00 (K-L:1), WB=0.52/1.00 (H-K:1), SEI=0.27/1.00 (E-F:1)

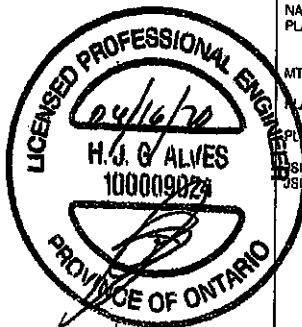
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

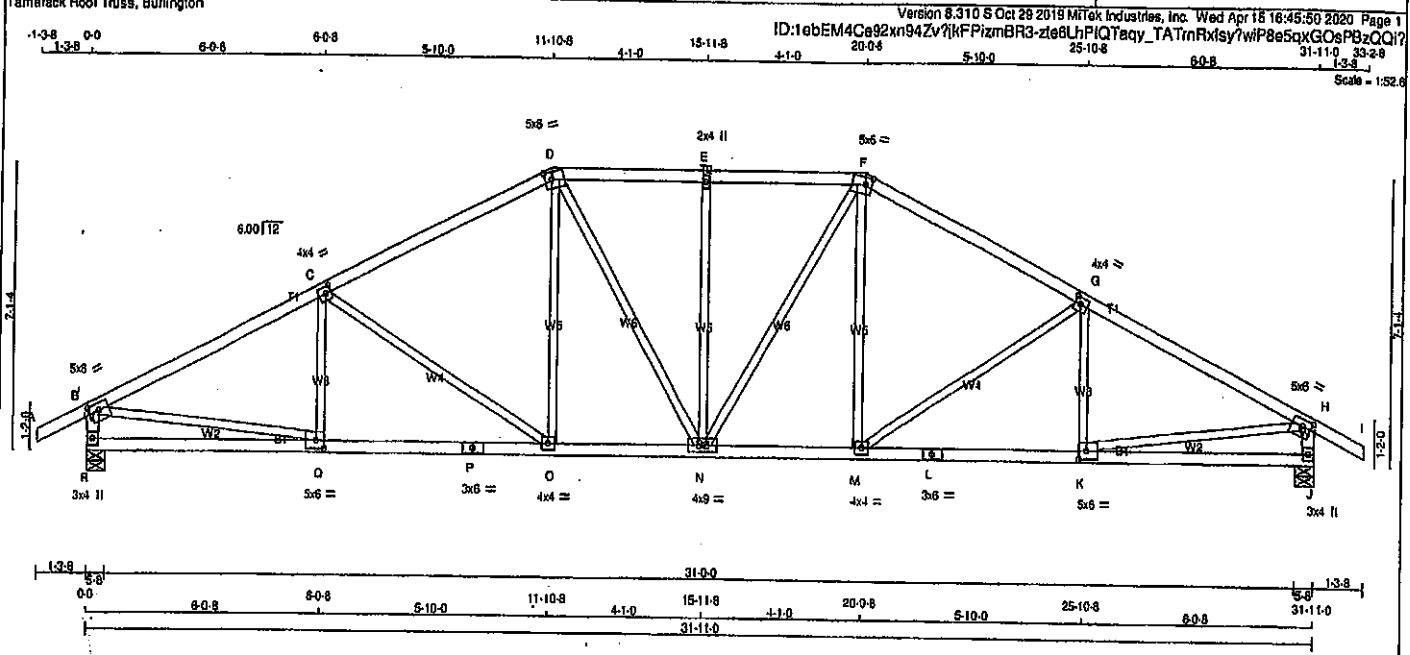
NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
 MAX MIN MAX MIN MAX MIN
 MT20 618 354 1607 788 1907 1608

PLATE PLACEMENT TOL = 0.250 inches
PLATE ROTATION TOL = 5.0 Deg.
 SHEAR GRIP=0.90 (B) (INPUT = 0.90)
 JOINT METAL=0.67 (B) (INPUT = 1.00)



Structural component only
 DWG# T-2006318

JOB NAME 408130	TRUSS NAME T24	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	ORWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



LUMBER

N.L.G.A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWV-1	MT20	5.0	6.0	2.00	2.75
C	TMWV-1	MT20	4.0	4.0	2.00	1.75
D	TTWW-m	MT20	5.0	6.0	2.25	2.00
E	TMWV-w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	6.0	2.25	2.00
G	TMWV-1	MT20	4.0	4.0	2.00	1.75
H	TMWV-1	MT20	5.0	6.0	2.00	2.75
J	BMV1-p	MT20	3.0	4.0		
K	BMWV-1	MT20	5.0	6.0	2.50	2.50
L	BS-1	MT20	3.0	6.0		
M	BMWV-1	MT20	4.0	4.0		
N	BMWVW-1	MT20	4.0	9.0		
O	BMWV-1	MT20	4.0	4.0		
P	BS-1	MT20	3.0	6.0		
Q	BMWV-1	MT20	5.0	6.0	2.50	2.50
R	BMV1-p	MT20	3.0	4.0		

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
R	1884	0	1884	0
J	1884	0	1884	0

UNFACTORED REACTIONS

	1ST LGASE	MAX/MIN COMPONENT REACTIONS
JT	COMBINED	SNOW LIVE PERM LIVE WIND DEAD SOIL
R	1330	888 / 0 0 / 0 0 / 0 444 0 0 0
J	1330	888 / 0 0 / 0 0 / 0 444 0 0 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.75 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-91.8 -91.8 0.12 (1)	10.00	Q-C	-212 / 29	0.08 (1)	
B-C	-2579 / 0	-91.8 -91.8 0.55 (1)	3.79	C-D	-480 / 0	0.48 (1)	
C-D	-2188 / 0	-91.8 -91.8 0.49 (1)	4.11	D-E	0 / 362	0.08 (1)	
D-E	-2069 / 0	-91.8 -91.8 0.24 (1)	4.49	E-F	0 / 286	0.07 (1)	
E-F	-2088 / 0	-91.8 -91.8 0.24 (1)	4.49	F-G	-451 / 0	0.39 (1)	
F-G	-2188 / 0	-91.8 -91.8 0.49 (1)	4.11	G-H	0 / 298	0.07 (1)	
G-H	-2579 / 0	-91.8 -91.8 0.55 (1)	3.79	H-I	0 / 362	0.08 (1)	
H-I	0 / 28	-91.8 -91.8 0.12 (1)	10.00	I-J	-480 / 0	0.48 (1)	
J-K	-1836 / 0	0.0 0.0 0.19 (1)	6.18	K-L	-212 / 29	0.08 (1)	
K-L	-1836 / 0	0.0 0.0 0.19 (1)	6.18	L-M	0 / 2355	0.53 (1)	
M-N	0 / 0	-18.5 -18.5 0.15 (4)	10.00	N-O	0 / 2355	0.53 (1)	
O-P	0 / 2332	-18.5 -18.5 0.44 (1)	10.00	P-Q	0 / 2332	-18.5 -18.5 0.44 (1)	10.00
Q-R	0 / 2332	-18.5 -18.5 0.44 (1)	10.00	R-S	0 / 1933	-18.5 -18.5 0.37 (1)	10.00
S-T	0 / 1933	-18.5 -18.5 0.37 (1)	10.00	T-U	0 / 1933	-18.5 -18.5 0.37 (1)	10.00
U-V	0 / 2332	-18.5 -18.5 0.44 (1)	10.00	V-W	0 / 2332	-18.5 -18.5 0.44 (1)	10.00
W-X	0 / 2332	-18.5 -18.5 0.44 (1)	10.00	X-Y	0 / 0	-18.5 -18.5 0.15 (4)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

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

CALCULATED VERT. DEFL. (LL) = L/999 (0.12")

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

CALCULATED VERT. DEFL. (TL) = L/999 (0.21")

CSI: TC=0.55/1.00 (G-H-1), BC=0.44/1.00 (K-M-1), WB=0.53/1.00 (H-K-1), SS=0.24/1.00 (G-H-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

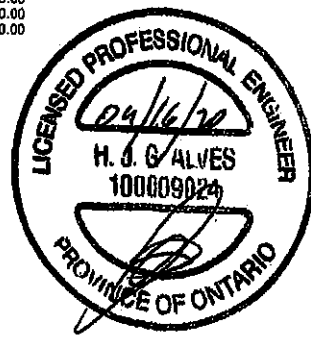
PLATE	GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	518	354	1667

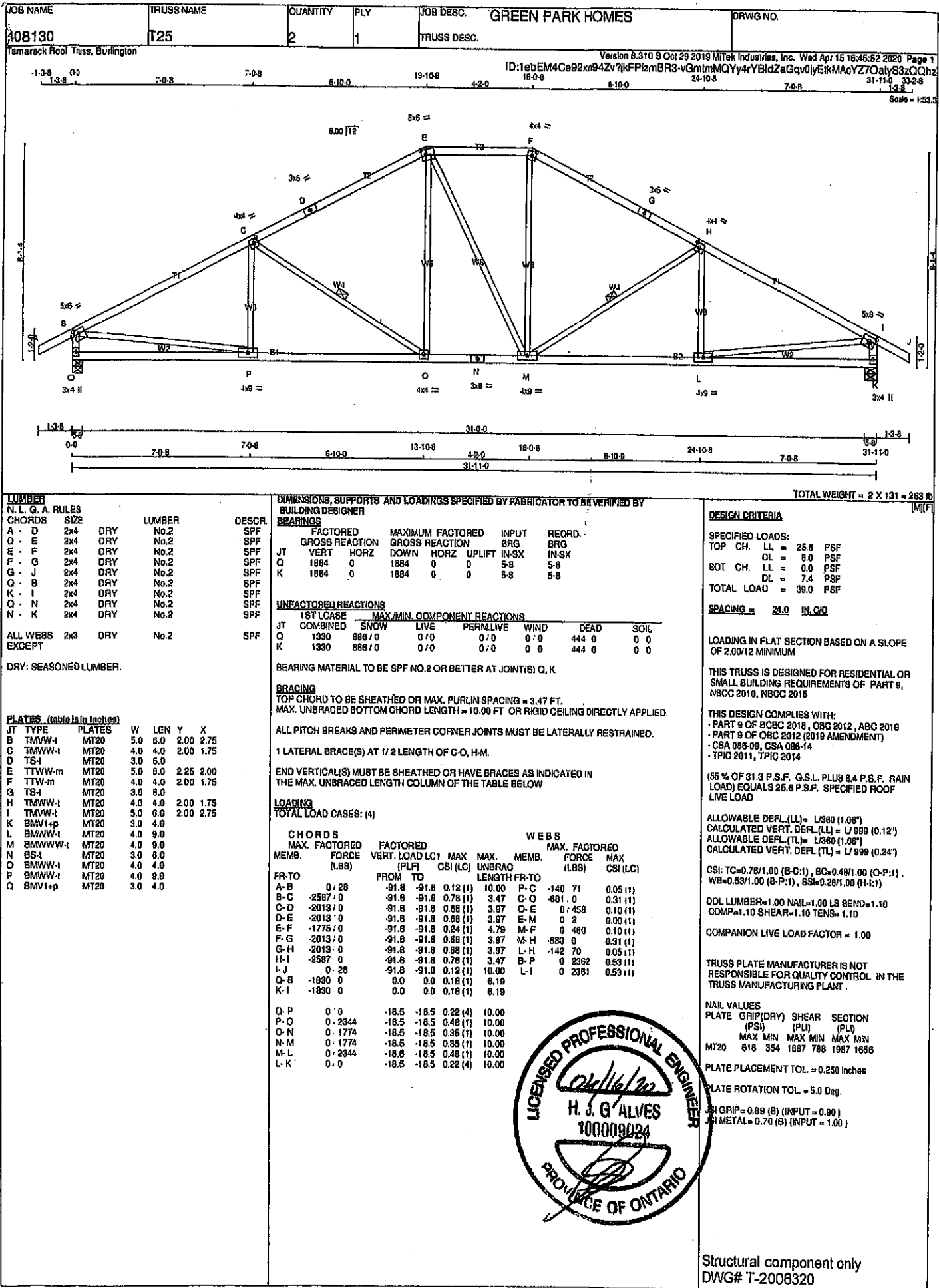
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

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

JSI METAL = 0.74 (P) (INPUT = 1.00)





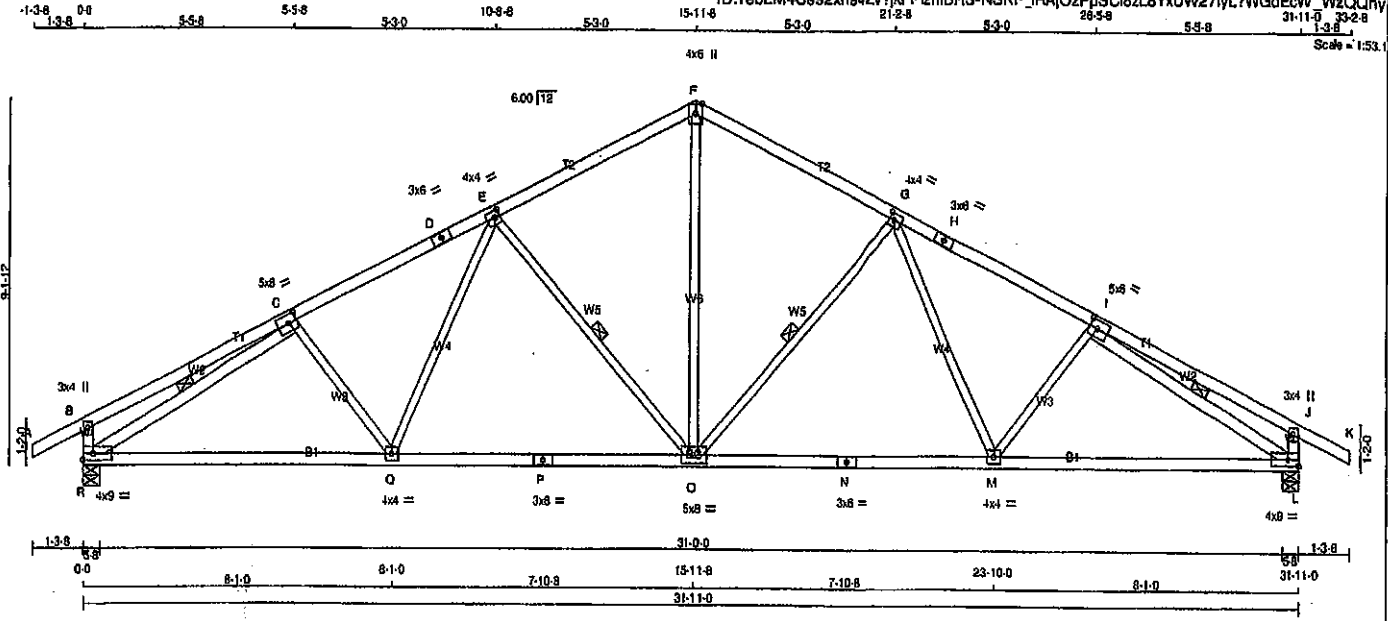
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408130	T26	3	1	GREEN PARK HOMES	
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.310.8 Oct 29 2019 MITEX Industries, Inc. Wed Apr 15 16:45:33 2020 Page 1

ID:1ebEM4Ce92xn94Zv7jKFPzmBR3-NSKF_IRAJ0zPpSC8zL8YxUW27iYL7WGdEcW_WzQQhy

Scale = 1:53.1



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMVW-1	MT20	5.0	6.0	2.50	2.50
D	TS-1	MT20	3.0	6.0		
E	TMVW-1	MT20	4.0	4.0	2.00	1.50
F	TTW+p	MT20	4.0	8.0	Edge	
G	TMVW-1	MT20	4.0	4.0	2.00	1.50
H	TS-1	MT20	3.0	6.0		
I	TMVW-1	MT20	5.0	6.0	2.50	2.50
J	TMV+p	MT20	3.0	4.0		
L	BMVW-1	MT20	4.0	9.0	Edge	
M	BMVW-1	MT20	4.0	4.0		
N	BS-1	MT20	3.0	6.0		
O	BMVW-1	MT20	5.0	8.0		
P	BS-1	MT20	3.0	6.0		
Q	BMVW-1	MT20	4.0	4.0		
R	BMVW-1	MT20	4.0	9.0	Edge	

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

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

BRACINGS	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
R	1884	0	1884	0
L	1884	0	1884	0

UNFACTORED REACTIONS	1ST CASE	MAX/MIN	COMPONENT REACTIONS
	COMBINED	SNOW	LIVE
R	1330	888 / 0	0 / 0
L	1330	888 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.11 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF G-O, E-O, C-R, I-L.

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

LOADING	CHORDS	WEBS
TOTAL LOAD CASES: (4)	MAX. FACTORED	MAX. FACTORED
	MEMB. FORCE (LBS)	MEMB. FORCE (LBS)
	FR-TO	FR-TO
	A-B	0 / 28
	B-C	0 / 20
	C-D	-2428 / 0
	D-E	-2428 / 0
	E-F	-1808 / 0
	F-G	-1808 / 0
	G-H	-2428 / 0
	H-I	-2428 / 0
	I-J	0 / 20
	J-K	0 / 28
	K-L	-325 / 0
	L-M	-325 / 0
	M-N	0 / 2268
	N-O	0 / 2051
	O-P	0 / 2051
	P-Q	0 / 2051
	Q-R	0 / 2051
	R-S	0 / 2051
	S-T	0 / 2268

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = L/899 (0.11")
ALLOWABLE DEFL.(TL) = L/380 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.24")

CS: TC=0.37/1.00 (G-I:1), BC=0.51/1.00 (L-M:1), WB=0.55/1.00 (I-L:1), SS=0.20/1.00 (I-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

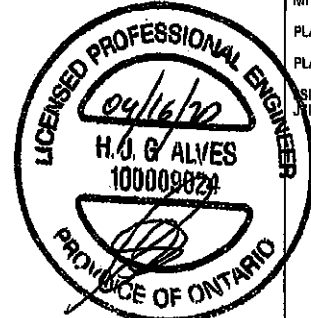
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SI GRIP=0.88 (I) (INPUT = 0.80)
SI METAL=0.70 (I) (INPUT = 1.00)



Structural component only
DWG# T-2006321

Structural component only
DWG# T-2006441

JOB NAME 408188	TRUSS NAME T32	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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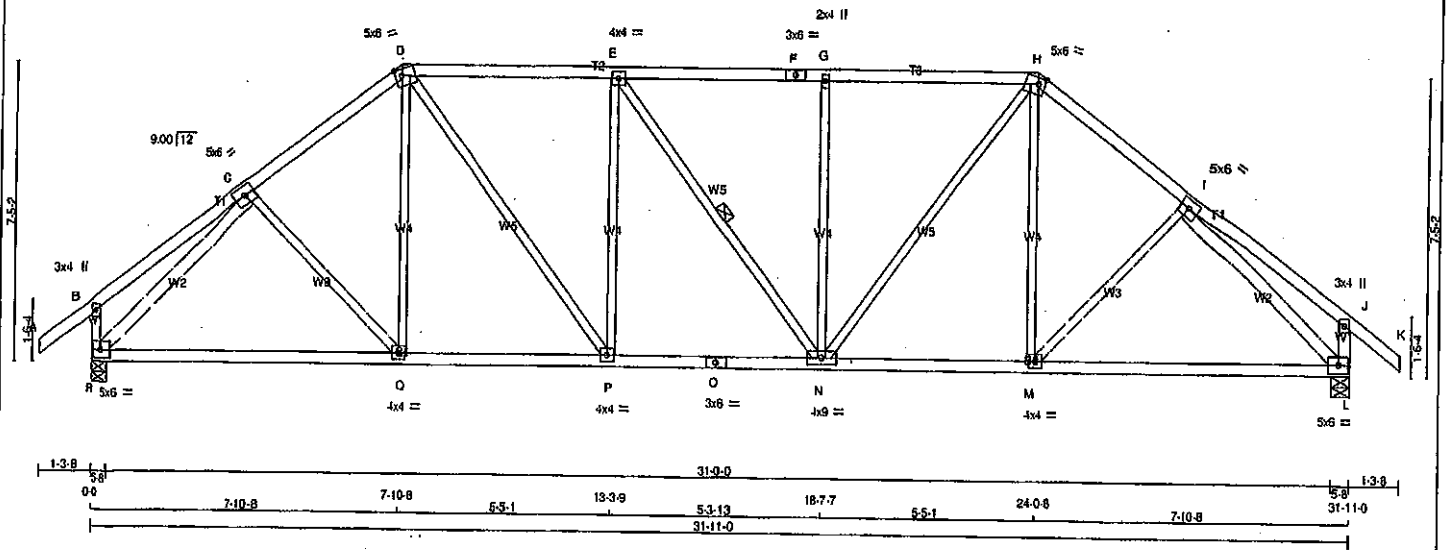
Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Fri Apr 17 08:26:13 2020 Page 1

ID: uqqs_6Xw1BIHcUBaEP9inzQC9m-lh36mq9Prnv3pTcjdzyfP5k?EJys71C1wkSzPlqO

18-7-7 55-1 24-0-8 3-10-0 27-10-8 4-0-8 1-3-8 31-11-0 33-2-8 1-3-8

Scale = 1:52.6



LUMBER						
N. L. G. A. RULES						
CHORDS		SIZE	LUMBER		DESCR.	
A - D	2x4	DRY	No.2	SPF		
D - F	2x4	DRY	No.2	SPF		
F - 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 EXCEPT		2x3	DRY	No.2	SPF	
R - C	2x4	DRY	No.2	SPF		
I - L	2x4	DRY	No.2	SPF		
DRY, SEASONED LUMBER.						

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT	TYPE	PLATES	W	LEN	Y	X
B	TMW-p	MT20	3.0	4.0			
C	TMWW-I	MT20	5.0	6.0			
D	TTWW-m	MT20	5.0	6.0	2.00	2.00	
E	TMWW-I	MT20	4.0	4.0			
F	TS-I	MT20	3.0	6.0			
G	TMW-w	MT20	2.0	4.0			
H	TTWW-m	MT20	5.0	6.0	2.00	2.00	
I	TMWW-I	MT20	5.0	6.0			
J	TMW-p	MT20	3.0	4.0			
L	BMWW-I	MT20	5.0	6.0			
M, P, Q							
N	BMWW-I	MT20	4.0	4.0			
O	BS-I	MT20	4.0	9.0			
R	BMWW-I	MT20	3.0	6.0			

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	HORZ	UPLIFT
R	1886	0	1886	0
L	1886	0	1886	0

UNFACTORED REACTIONS	1ST CASE	MAX-MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
R	1331	887.0	0.0
L	1331	887.0	0.0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.34 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 E-N.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX.	MEMB.	FORCE	MAX
MEMB.	FORCE	VERT. LOAD	LC1	MAX	MAX.	MEMB.	FORCE	MAX	
	(LBS)	(PLF)	CSI (LC)	UNBRAC	LENGTH	FR-TO	FORCE	MAX	
A-B	0.38	-91.8	-91.8	0.12 (1)	10.00	C-Q	0.52	0.02 (4)	
B-C	0.24	-91.8	-91.8	0.22 (1)	10.00	Q-D	0.149	0.05 (4)	
C-D	-1878.0	-91.8	-91.8	0.29 (1)	4.82	D-P	0.777	0.17 (1)	
D-E	-1953.0	-91.8	-91.8	0.45 (1)	4.34	P-E	-533.0	0.53 (1)	
E-F	-1951.0	-91.8	-91.8	0.45 (1)	4.34	E-N	-3.0	0.00 (1)	
F-G	-1951.0	-91.8	-91.8	0.45 (1)	4.34	N-G	-532.0	0.53 (1)	
G-H	-1951.0	-91.8	-91.8	0.45 (1)	4.35	H-H	0.774	0.17 (1)	
H-I	-1878.0	-91.8	-91.8	0.29 (1)	4.82	M-H	0.150	0.05 (4)	
I-J	0.24	-91.8	-91.8	0.22 (1)	10.00	M-I	0.52	0.02 (4)	
J-K	0.38	-91.8	-91.8	0.12 (1)	10.00	R-C	-2149.0	0.82 (1)	
R-B	-268.0	0.0	0.0	0.03 (1)	7.81	I-L	-2149.0	0.82 (1)	
L-J	-268.0	0.0	0.0	0.03 (1)	7.81				
R-Q	0.1479	-18.5	-18.5	0.38 (1)	10.00				
Q-P	0.1482	-18.5	-18.5	0.38 (1)	10.00				
P-O	0.1953	-18.5	-18.5	0.37 (1)	10.00				
O-N	0.1953	-18.5	-18.5	0.37 (1)	10.00				
N-M	0.1482	-18.5	-18.5	0.38 (1)	10.00				
M-L	0.1479	-18.5	-18.5	0.38 (1)	10.00				

TOTAL WEIGHT = 2 X 148 = 296 lb

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

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.08")
CALCULATED VERT. DEFL.(LL) = L/889 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (1.05")
CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

CSI: TC=0.45/1.00 (D-E:1), BC=0.38/1.00 (M-N:1), WB=0.82/1.00 (I-L:1), SS=0.23/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

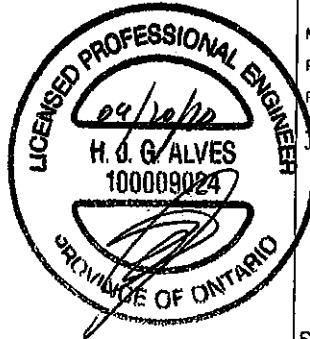
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1987 788 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

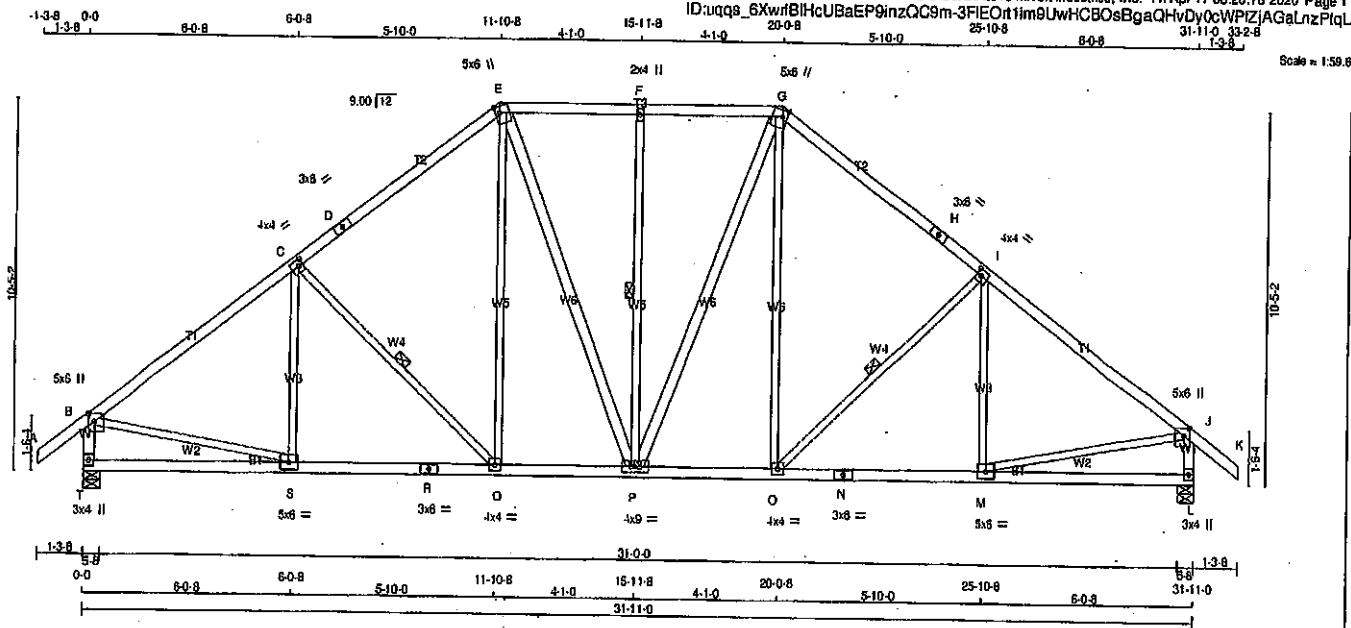
PLATE ROTATION TOL. = 5.0 Deg.

SI GRIP = 0.89 (I) (INPUT = 0.90)
SI METAL = 0.68 (O) (INPUT = 1.00)



Structural component only
DWG# T-2006442

JOB NAME 408188	TRUSS NAME T34	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Famarack Pool Truss, Burlington		Version 8.310 S Oct 29 2019 MITek Industries, Inc. Fri Apr 17 08:26:18 2020 Page 1			



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

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

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

FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
T	1888	0	1888	0	5-8	5-8	
L	1888	0	1888	0	5-8	5-8	

UNFACTORED REACTIONS

1ST CASE		MAX. MIN. COMPONENT REACTIONS		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE					
T	1331	887.0	0.0	0.0	0.0	444.0	0.0	0.0	0.0
L	1331	887.0	0.0	0.0	0.0	444.0	0.0	0.0	0.0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.30 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. MAX. CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO		FROM TO	LENGTH
A-B	0/38	-91.8	-91.8 0.12 (1)	10.00	S-C	-189.37	0.11 (1)
B-C	-1942/0	-91.8	-91.8 0.53 (1)	4.30	C-Q	-400/0	0.18 (1)
C-D	-1664/0	-91.8	-91.8 0.48 (1)	4.61	Q-E	0/370	0.08 (1)
D-E	-1664/0	-91.8	-91.8 0.48 (1)	4.61	E-P	0/276	0.04 (1)
E-F	-1404/0	-91.8	-91.8 0.21 (1)	5.29	P-F	-448/0	0.34 (1)
F-G	-1404/0	-91.8	-91.8 0.21 (1)	5.29	P-G	0/276	0.04 (1)
G-H	-1664/0	-91.8	-91.8 0.48 (1)	4.61	O-G	0/370	0.08 (1)
H-I	-1664/0	-91.8	-91.8 0.48 (1)	4.61	O-I	-400/0	0.18 (1)
I-J	-1942/0	-91.8	-91.8 0.53 (1)	4.30	M-I	-189.37	0.11 (1)
J-K	0/38	-91.8	-91.8 0.12 (1)	10.00	B-S	0/1615	0.36 (1)
T-B	-1840/0	0.0	0.0 0.19 (1)	6.17	M-J	0/1615	0.36 (1)
L-J	-1840/0	0.0	0.0 0.19 (1)	6.17			
T-S	0/0	-18.5	-18.5 0.18 (4)	10.00			
S-R	0/1585	-18.5	-18.5 0.34 (1)	10.00			
R-Q	0/1585	-18.5	-18.5 0.34 (1)	10.00			
Q-P	0/1301	-18.5	-18.5 0.26 (1)	10.00			
P-O	0/1301	-18.5	-18.5 0.26 (1)	10.00			
O-N	0/1585	-18.5	-18.5 0.34 (1)	10.00			
N-M	0/1585	-18.5	-18.5 0.34 (1)	10.00			
M-L	0/0	-18.5	-18.5 0.18 (4)	10.00			

TOTAL WEIGHT = 2 X 155 = 331 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

(5% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = L/699 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TC=0.53/1.00 (B-C:1), BC=0.34/1.00 (Q-S:1),
WB=0.36/1.00 (J-M:1), SSI=0.21/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

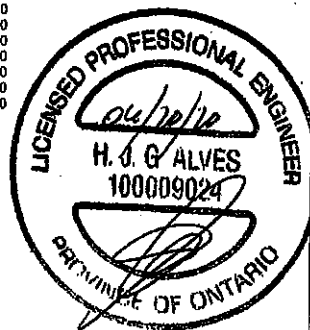
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

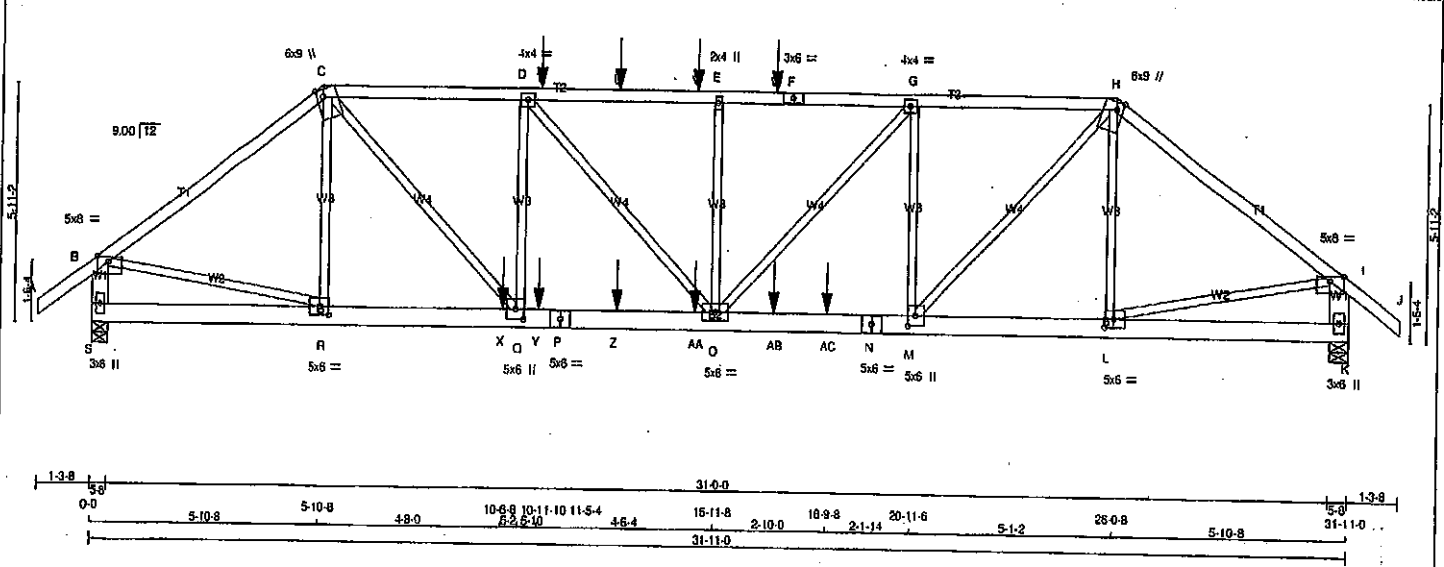
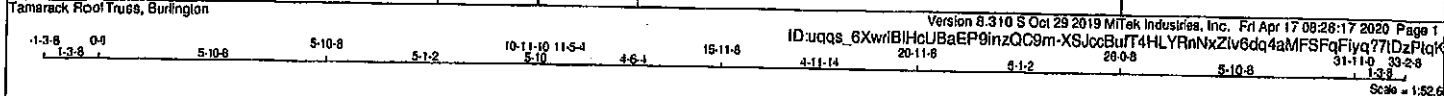
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (B) (INPUT = 0.90)
JSI METAL = 0.52 (R) (INPUT = 1.00)



Structural component only
DWG# T-2006444

JOB NAME 408188	TRUSS NAME T35	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Trusses, Burlington		TRUSS DESC.		Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:28:17 2020 Page 1	



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

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	DOWN	HORIZ	UPLIFT
S 3971 0	3971 0	5-8	5-8
K 3851 0	3551 0	5-8	5-8

1ST CASE	MAX. MIN. COMPONENT REACTIONS	WIND	DEAD	SOIL
JT COMBINED	SNOW	LIVE	PERM. LIVE	
S 2798 1898 0	0 0	0 0	902 0	0 0
K 2503 1893 0	0 0	0 0	810 0	0 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.39 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	MAX. UNBRAC	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 (PLF)	CS1 (LC)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	LENGTH	FR-TO	
A-B	0 38	-91.8 -91.8 0.07 (1)	10.00	R-C	-424 0
B-C	-4732 0	-91.8 -91.8 0.55 (1)	4.00	C-Q	0 3813
C-D	-6354 0	-91.8 -91.8 0.48 (1)	3.52	Q-O	-1192 0
D-T	-6786 0	-91.8 -91.8 0.49 (1)	3.39	O-O	0 571
T-U	-6786 0	-91.8 -91.8 0.49 (1)	3.39	O-E	-867 0
U-V	-6786 0	-91.8 -91.8 0.49 (1)	3.39	O-G	0 1542
V-E	-6786 0	-91.8 -91.8 0.49 (1)	3.39	M-G	-1871 0
E-W	-6786 0	-91.8 -91.8 0.49 (1)	3.39	M-H	0 3581
W-F	-6786 0	-91.8 -91.8 0.49 (1)	3.39	L-H	-632 0
F-G	-6786 0	-91.8 -91.8 0.49 (1)	3.39	B-R	0 3844
G-H	-5705 0	-91.8 -91.8 0.35 (1)	3.81	L-I	0 3348
H-I	-4121 0	-91.8 -91.8 0.50 (1)	4.27		
I-J	0 38	-91.8 -91.8 0.07 (1)	10.00		
S-B	-3944 0	0.0 0.0 0.14 (1)	7.14		
K-I	-3486 0	0.0 0.0 0.13 (1)	7.49		

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.
GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

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

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

PLATES (table in inches)

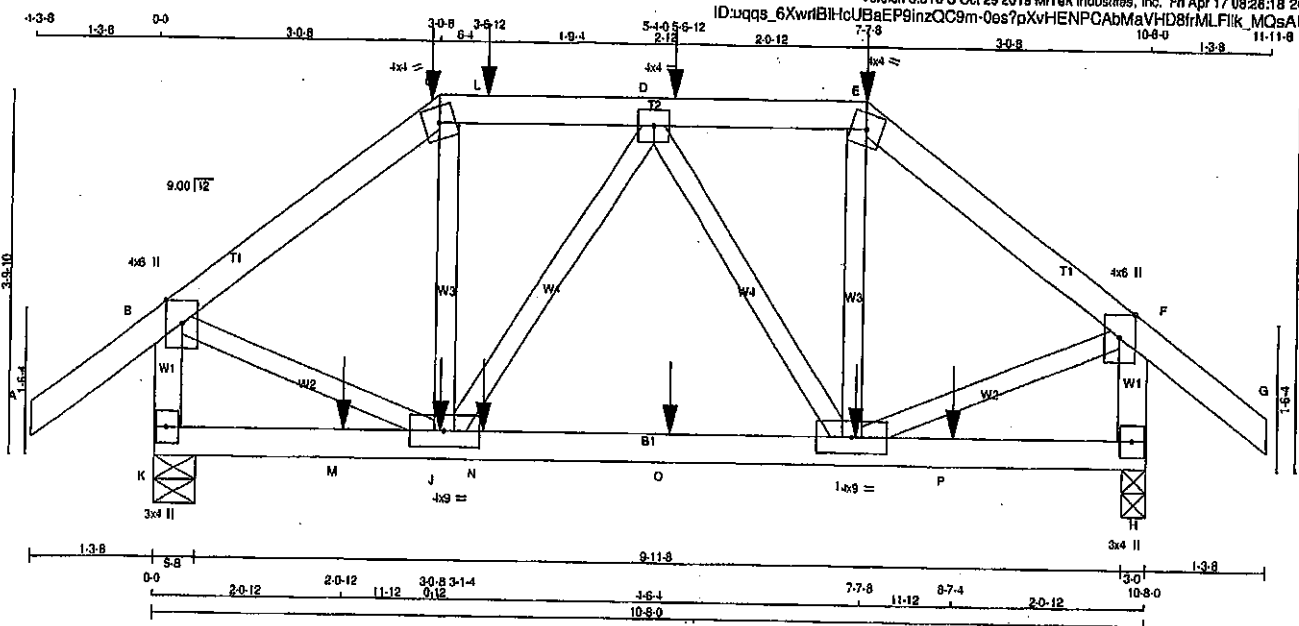
JT TYPE	PLATES	W	LEN	Y	X
B TMVW-p	MT20	5.0	8.0	Edge	
C TTWW+m	MT20	6.0	9.0	Edge	2.00
D TMVW-i	MT20	4.0	4.0		
E TMVW-w	MT20	2.0	4.0		
F TS-i	MT20	3.0	6.0		
G TMVW-i	MT20	4.0	4.0		
H TTWW+m	MT20	6.0	9.0	Edge	2.00
I TMVW-p	MT20	5.0	8.0	Edge	
K BMV1+p	MT20	3.0	8.0		
L BMVW-i	MT20	5.0	6.0	2.50	2.75
M BMVW-i	MT20	5.0	6.0	3.00	2.25
N BS-i	MT20	5.0	6.0		
O BMVW-i	MT20	5.0	6.0		
P BS-i	MT20	5.0	6.0		
Q BMVW-i	MT20	5.0	6.0	3.00	2.25
R BMVW-i	MT20	5.0	6.0	2.50	2.75
S BMV1+p	MT20	3.0	8.0		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
T	11-5.4	-178	-178		BACK	VERT	TOTAL		C1
U	13-5.4	-178	-178		BACK	VERT	TOTAL		C1
V	15-5.4	-178	-178		BACK	VERT	TOTAL		C1
W	17-5.4	-178	-178		BACK	VERT	TOTAL		C1
X	10-8.8	-1849	-1849		BACK	VERT	TOTAL		C1
Y	11-5.4	-36	-36		BACK	VERT	TOTAL		C1
Z	13-5.4	-36	-36		BACK	VERT	TOTAL		C1
AA	15-5.4	-36	-36		BACK	VERT	TOTAL		C1
AB	17-5.4	-36	-36		BACK	VERT	TOTAL		C1
AC	18-9.8	-1247	-1247		BACK	VERT	TOTAL		C1

Structural component only
DWG# T-2006445

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408188	T36	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 09:28:18 2020 Page 1					
ID: uqqs_6XwrlBIhCUBaEP9inzQC9m-0es7pXvHENPCabMaVHD8rMLFlk MQsAUlhpPzPiq.					
Scale = 1/222					



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
G - H	2x4	DRY	No.2
H - I	2x4	DRY	No.2
I - J	2x4	DRY	No.2
J - K	2x4	DRY	No.2
K - L	2x4	DRY	No.2
L - M	2x4	DRY	No.2
M - N	2x4	DRY	No.2
N - O	2x4	DRY	No.2
O - P	2x4	DRY	No.2
P - Q	2x4	DRY	No.2
Q - R	2x4	DRY	No.2
R - S	2x4	DRY	No.2
S - T	2x4	DRY	No.2
T - U	2x4	DRY	No.2
U - V	2x4	DRY	No.2
V - W	2x4	DRY	No.2
W - X	2x4	DRY	No.2
X - Y	2x4	DRY	No.2
Y - Z	2x4	DRY	No.2
Z - AA	2x4	DRY	No.2
AA - AB	2x4	DRY	No.2
AB - AC	2x4	DRY	No.2
AC - AD	2x4	DRY	No.2
AD - AE	2x4	DRY	No.2
AE - AF	2x4	DRY	No.2
AF - AG	2x4	DRY	No.2
AG - AH	2x4	DRY	No.2
AH - AI	2x4	DRY	No.2
AI - AJ	2x4	DRY	No.2
AJ - AK	2x4	DRY	No.2
AK - AL	2x4	DRY	No.2
AL - AM	2x4	DRY	No.2
AM - AN	2x4	DRY	No.2
AN - AO	2x4	DRY	No.2
AO - AP	2x4	DRY	No.2
AP - AQ	2x4	DRY	No.2
AQ - AR	2x4	DRY	No.2
AR - AS	2x4	DRY	No.2
AS - AT	2x4	DRY	No.2
AT - AU	2x4	DRY	No.2
AU - AV	2x4	DRY	No.2
AV - AW	2x4	DRY	No.2
AW - AX	2x4	DRY	No.2
AX - AY	2x4	DRY	No.2
AY - AZ	2x4	DRY	No.2
AZ - BA	2x4	DRY	No.2
BA - BB	2x4	DRY	No.2
BB - BC	2x4	DRY	No.2
BC - BD	2x4	DRY	No.2
BD - BE	2x4	DRY	No.2
BE - BF	2x4	DRY	No.2
BF - BG	2x4	DRY	No.2
BG - BH	2x4	DRY	No.2
BH - BI	2x4	DRY	No.2
BI - BJ	2x4	DRY	No.2
BJ - BK	2x4	DRY	No.2
BK - BL	2x4	DRY	No.2
BL - BM	2x4	DRY	No.2
BM - BN	2x4	DRY	No.2
BN - BO	2x4	DRY	No.2
BO - BP	2x4	DRY	No.2
BP - BQ	2x4	DRY	No.2
BQ - BR	2x4	DRY	No.2
BR - BS	2x4	DRY	No.2
BS - BT	2x4	DRY	No.2
BT - BU	2x4	DRY	No.2
BU - BV	2x4	DRY	No.2
BV - BW	2x4	DRY	No.2
BW - BX	2x4	DRY	No.2
BX - BY	2x4	DRY	No.2
BY - BZ	2x4	DRY	No.2
BZ - CA	2x4	DRY	No.2
CA - CB	2x4	DRY	No.2
CB - CC	2x4	DRY	No.2
CC - CD	2x4	DRY	No.2
CD - CE	2x4	DRY	No.2
CE - CF	2x4	DRY	No.2
CF - CG	2x4	DRY	No.2
CG - CH	2x4	DRY	No.2
CH - CI	2x4	DRY	No.2
CI - CJ	2x4	DRY	No.2
CJ - CK	2x4	DRY	No.2
CK - CL	2x4	DRY	No.2
CL - CM	2x4	DRY	No.2
CM - CN	2x4	DRY	No.2
CN - CO	2x4	DRY	No.2
CO - CP	2x4	DRY	No.2
CP - CQ	2x4	DRY	No.2
CQ - CR	2x4	DRY	No.2
CR - CS	2x4	DRY	No.2
CS - CT	2x4	DRY	No.2
CT - CU	2x4	DRY	No.2
CU - CV	2x4	DRY	No.2
CV - CW	2x4	DRY	No.2
CW - CX	2x4	DRY	No.2
CX - CY	2x4	DRY	No.2
CY - CZ	2x4	DRY	No.2
CZ - DA	2x4	DRY	No.2
DA - DB	2x4	DRY	No.2
DB - DC	2x4	DRY	No.2
DC - DD	2x4	DRY	No.2
DD - DE	2x4	DRY	No.2
DE - DF	2x4	DRY	No.2
DF - DG	2x4	DRY	No.2
DG - DH	2x4	DRY	No.2
DH - DI	2x4	DRY	No.2
DI - DJ	2x4	DRY	No.2
DJ - DK	2x4	DRY	No.2
DK - DL	2x4	DRY	No.2
DL - DM	2x4	DRY	No.2
DM - DN	2x4	DRY	No.2
DN - DO	2x4	DRY	No.2
DO - DP	2x4	DRY	No.2
DP - DQ	2x4	DRY	No.2
DQ - DR	2x4	DRY	No.2
DR - DS	2x4	DRY	No.2
DS - DT	2x4	DRY	No.2
DT - DU	2x4	DRY	No.2
DU - DV	2x4	DRY	No.2
DV - DW	2x4	DRY	No.2
DW - DX	2x4	DRY	No.2
DX - DY	2x4	DRY	No.2
DY - DZ	2x4	DRY	No.2
DZ - EA	2x4	DRY	No.2
EA - EB	2x4	DRY	No.2
EB - EC	2x4	DRY	No.2
EC - ED	2x4	DRY	No.2
ED - EE	2x4	DRY	No.2
EE - EF	2x4	DRY	No.2
EF - EG	2x4	DRY	No.2
EG - EH	2x4	DRY	No.2
EH - EI	2x4	DRY	No.2
EI - EJ	2x4	DRY	No.2
EJ - EK	2x4	DRY	No.2
EK - EL	2x4	DRY	No.2
EL - EM	2x4	DRY	No.2
EM - EN	2x4	DRY	No.2
EN - EO	2x4	DRY	No.2
EO - EP	2x4	DRY	No.2
EP - EQ	2x4	DRY	No.2
EQ - ER	2x4	DRY	No.2
ER - ES	2x4	DRY	No.2
ES - ET	2x4	DRY	No.2
ET - EU	2x4	DRY	No.2
EU - EV	2x4	DRY	No.2
EV - EW	2x4	DRY	No.2
EW - EX	2x4	DRY	No.2
EX - EY	2x4	DRY	No.2
EY - EZ	2x4	DRY	No.2
EZ - FA	2x4	DRY	No.2
FA - FB	2x4	DRY	No.2
FB - FC	2x4	DRY	No.2
FC - FD	2x4	DRY	No.2
FD - FE	2x4	DRY	No.2
FE - FF	2x4	DRY	No.2
FF - FG	2x4	DRY	No.2
FG - FH	2x4	DRY	No.2
FH - FI	2x4	DRY	No.2
FI - FJ	2x4	DRY	No.2
FJ - FK	2x4	DRY	No.2
FK - FL	2x4	DRY	No.2
FL - FM	2x4	DRY	No.2
FM - FN	2x4	DRY	No.2
FN - FO	2x4	DRY	No.2
FO - FP	2x4	DRY	No.2
FP - FQ	2x4	DRY	No.2
FQ - FR	2x4	DRY	No.2
FR - FS	2x4	DRY	No.2
FS - FT	2x4	DRY	No.2
FT - FU	2x4	DRY	No.2
FU - FV	2x4	DRY	No.2
FV - FW	2x4	DRY	No.2
FW - FX	2x4	DRY	No.2
FX - FY	2x4	DRY	No.2
FY - FZ	2x4	DRY	No.2
FZ - GA	2x4	DRY	No.2
GA - GB	2x4	DRY	No.2
GB - GC	2x4	DRY	No.2
GC - GD	2x4	DRY	No.2
GD - GE	2x4	DRY	No.2
GE - GF	2x4	DRY	No.2
GF - GG	2x4	DRY	No.2
GG - GH	2x4	DRY	No.2
GH - GI	2x4	DRY	No.2
GI - GJ	2x4	DRY	No.2
GJ - GK	2x4	DRY	No.2
GK - GL	2x4	DRY	No.2
GL - GM	2x4	DRY	No.2
GM - GN	2x4	DRY	No.2
GN - GO	2x4	DRY	No.2
GO - GP	2x4	DRY	No.2
GP - GQ	2x4	DRY	No.2
GQ - GR	2x4	DRY	No.2
GR - GS	2x4	DRY	No.2
GS - GT	2x4	DRY	No.2
GT - GU	2x4	DRY	No.2
GU - GV	2x4	DRY	No.2
GV - GW	2x4	DRY	No.2
GW - GX	2x4	DRY	No.2
GX - GY	2x4	DRY	No.2
GY - GZ	2x4	DRY	No.2
GZ - HA	2x4	DRY	No.2
HA - HB	2x4	DRY	No.2
HB - HC	2x4	DRY	No.2
HC - HD	2x4	DRY	No.2
HD - HE	2x4	DRY	No.2
HE - HF	2x4	DRY	No.2
HF - HG	2x4	DRY	No.2
HG - HH	2x4	DRY	No.2
HH - HI	2x4	DRY	No.2
HI - HJ	2x4	DRY	No.2
HJ - HK	2x4	DRY	No.2
HK - HL	2x4	DRY	No.2
HL - HM	2x4	DRY	No.2
HM - HN	2x4	DRY	No.2
HN - HO	2x4	DRY	No.2
HO - HP	2x4	DRY	No.2
HP - HQ	2x4	DRY	No.2
HQ - HR	2x4	DRY	No.2
HR - HS	2x4	DRY	No.2
HS - HT	2x4	DRY	No.2
HT - HU	2x4	DRY	No.2
HU - HV	2x4	DRY	No.2
HV - HW	2x4	DRY	No.2
HW - HX	2x4	DRY	No.2
HX - HY	2x4	DRY	No.2
HY - HZ	2x4	DRY	No.2
HZ - IA	2x4	DRY	No.2
IA - IB	2x4	DRY	No.2
IB - IC	2x4	DRY	No.2
IC - ID	2x4	DRY	No.2
ID - IE	2x4	DRY	No.2
IE - IF	2x4	DRY	No.2
IF - IG	2x4	DRY	No.2
IG - IH	2x4	DRY	No.2
IH - II	2x4	DRY	No.2
II - IJ	2x4	DRY	No.2
IJ - IK	2x4	DRY	No.2
IK - IL	2x4	DRY	No.2
IL - IM	2x4	DRY	No.2
IM - IN	2x4	DRY	No.2
IN - IO	2x4	DRY	No.2
IO - IP	2x4	DRY	No.2
IP - IQ	2x4	DRY	No.2
IQ - IR	2x4	DRY	No.2
IR - IS	2x4	DRY	No.2
IS - IT	2x4	DRY	No.2
IT - IU	2x4	DRY	No.2
IU - IV	2x4	DRY	No.2
IV - IV	2x4	DRY	No.2

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

PLATES (Labels in inches)			
JT TYPE	PLATES	W	LEN Y X
B TMW+p	MT20	4.0	8.0 Edge
C TTW-m	MT20	4.0	4.0
D TMW-w	MT20	4.0	4.0
E TTW-m	MT20	4.0	4.0
F TMW+p	MT20	4.0	8.0 Edge
H BMV1+p	MT20	3.0	4.0
I BMWVW-t	MT20	4.0	9.0
J BMWVW-t	MT20	4.0	9.0
K BMV1+p	MT20	3.0	4.0

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	VERT	HORZ	DOWN	UPLIFT
K	977	0	977	0
H	951	0	951	0

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
K	688	469	0	0	0	219	0
H	670	456	0	0	0	214	0

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

BRACING

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

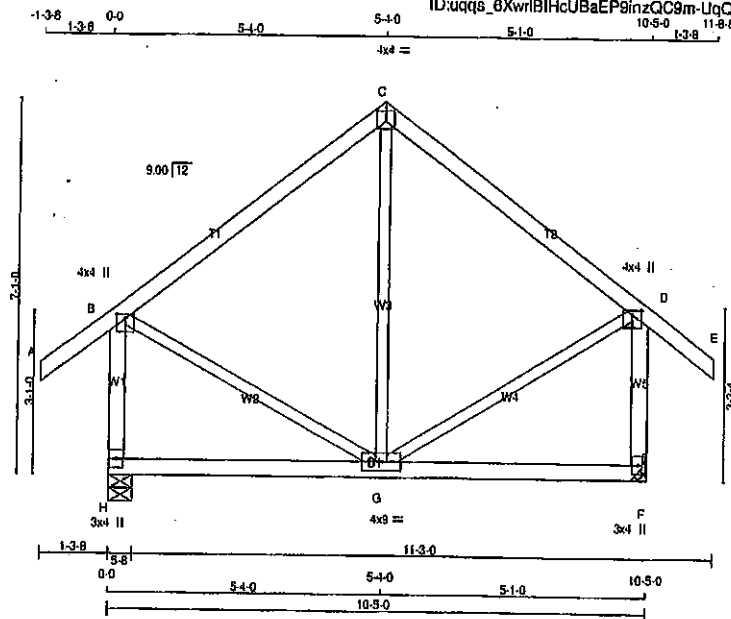
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0.38	-91.8	-91.8 0.14 (1)	10.00	J-C	0.66	0.03 (4)
B-C	-759.0	-91.8	-91.8 0.17 (1)	8.25	I-E	0.71	0.03 (4)
C-L	-606.0	-91.8	-91.8 0.08 (1)	6.25	B-J	0.648	0.16 (1)
L-D	-606.0	-91.8	-91.8 0.09 (1)	6.25	I-F	0.623	0.15 (1)
D-E	-584.0	-91.8	-91.8 0.09 (1)	6.25	J-D	-165.0	0.05 (1)
E-F	-730.0	-91.8	-91.8 0.17 (1)	6.25	D-I	-207.0	0.08 (1)
F-G	0.38	-91.8	-91.8 0.14 (1)	10.00			
K-B	-963.0	0.0	0.0 0.11 (1)	7.81			
H-F	-927.0	0.0	0.0 0.11 (1)	7.81			
K-M	0.0	-18.5	-18.5 0.08 (4)	10.00			
M-J	0.0	-18.5	-18.5 0.08 (4)	10.00			
J-N	0.694	-18.5	-18.5 0.17 (1)	10.00			
N-O	0.694	-18.5	-18.5 0.17 (1)	10.00			
O-I	0.694	-18.5	-18.5 0.17 (1)	10.00			
I-P	0.0	-18.5	-18.5 0.08 (4)	10.00			
P-H	0.0	-18.5	-18.5 0.08 (4)	10.00			

JOB NAME 408188	TRUSS NAME T37	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



Scale = 1/40.0

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

ALL WEBS 2x3 DRY No.2 EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
C	TTW-p	MT20	4.0	4.0	2.25	2.00
D	TMVW+p	MT20	4.0	4.0	1.00	2.00
F	BMV1+p	MT20	3.0	4.0		
G	BMVWW-l	MT20	4.0	8.0		
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	UPLIFT
H	701	0	0	0
F	701	0	0	0

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
H	493	337.0	0.0	0.0	156.0	0.0
F	493	337.0	0.0	0.0	156.0	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 = 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 (PL)	MAX. UNBRACED LENGTH	WEBS	MAX. FACTORED MEMB. FORCE (LBS)	MAX. UNBRACED LENGTH
FR-TO				FR-TO		
A-B	0.738	-91.8	10.00	G-C	-133	41
B-C	-287.0	-91.8	10.00	B-G	0	259
C-D	-287.0	-91.8	10.00	G-D	0	259
D-E	0.738	-91.8	10.00			
H-B	-663.0	0.0	11.11			
F-D	-663.0	0.0	12.12			
H-G	0.0	-18.5	10.00			
G-F	0.0	-18.5	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.35")
CALCULATED VERT. DEFL.(LL) = L/989 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = L/989 (0.02")

CSI: TC=0.33/1.00 (B-C:1), BC=0.14/1.00 (F-G:4), WB=0.11/1.00 (C-G:1), SSI=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

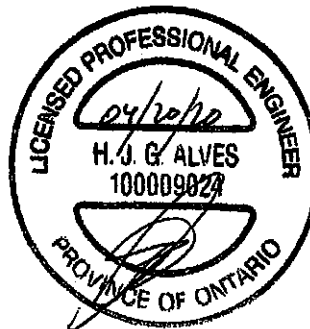
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

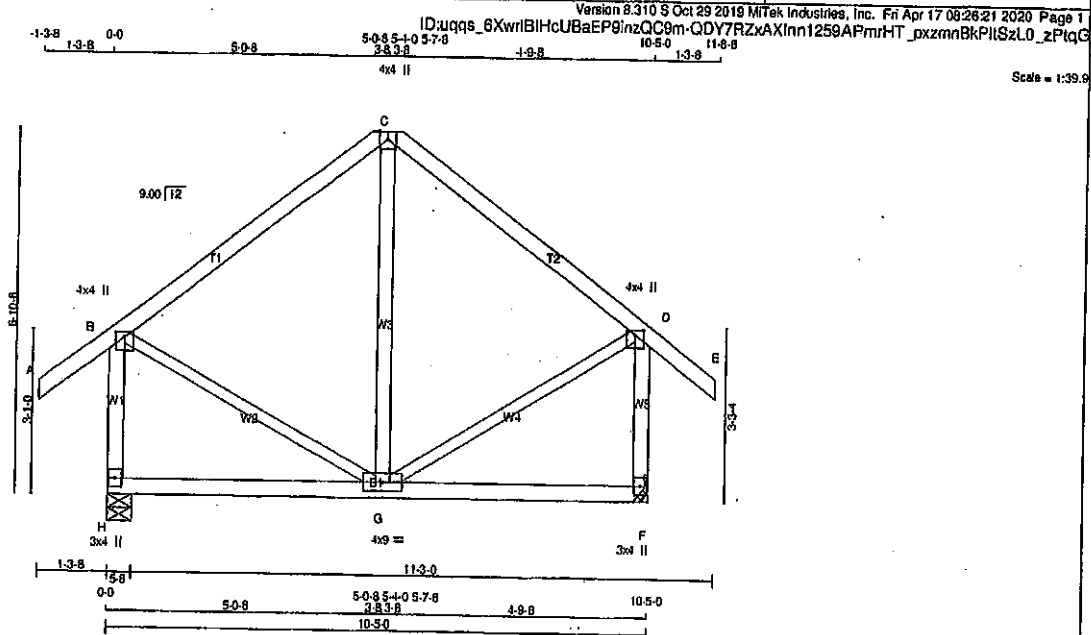
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.53 (B) (INPUT = 0.90)
JSI METAL = 0.13 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006447

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408188	T37CP	1	1	GREEN PARK HOMES	
Tamarack Floor Truss, Burlington				TRUSS DESC.	



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

DRY: SEASONED LUMBER.

PLATES (table in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW+p	MT20	4.0	4.0 1.00 2.00
C	TMVW+p	MT20	4.0	4.0 Edge
D	TMVW+p	MT20	4.0	4.0 1.00 2.00
F	BMV1+p	MT20	3.0	4.0
G	BMVWW-I	MT20	4.0	9.0
H	BMV1+p	MT20	3.0	4.0

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER							
BEARINGS							
	FACTORED	MAXIMUM FACTORED	INPUT	RECORD			
	GROSS REACTION	GROSS REACTION	BRG	BRG			
JT	VERT	HORZ	DOWN	UP/LIFT	IN-SX	IN-SX	
H	701	0	701	0	5.8	5.8	
F	701	0	701	0	0	0	MECHANICAL

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

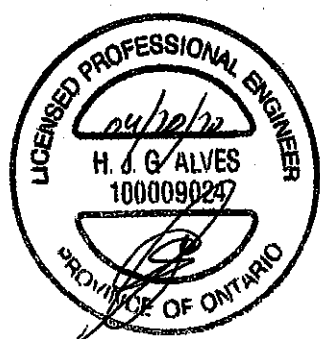
UNFACTORED REACTIONS							
1ST CASE	MAX. MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
H	493	337.0	0.0	0.0	0.0	158.0	0.0
F	493	337.0	0.0	0.0	0.0	158.0	0.0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 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. MAX. (LC) UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. MAX. (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0.38	-91.8 -91.8	0.12 (1)	10.00	B-G	0.259	0.08 (1)
B-C	-287.0	-91.8 -91.8	0.33 (1)	6.25	G-D	0.268	0.08 (1)
C-D	-287.0	-91.8 -91.8	0.30 (1)	8.25	G-C	-133.41	0.08 (1)
D-E	0.38	-91.8 -91.8	0.12 (1)	10.00			
H-B	-662.0	0.0 0.0	0.11 (1)	7.81			
F-D	-665.0	0.0 0.0	0.12 (1)	7.81			
H-G	0.0	-18.5 -18.5	0.14 (4)	10.00			
G-F	0.0	-18.5 -18.5	0.14 (4)	10.00			



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

SPACING = 24.0 IN. C/C
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 2010, CBC 2012, A8C 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.35")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.33/1.00 (B-C:1), BC=0.14/1.00 (G-H:4), WB=0.08/1.00 (G-G:1), SSI=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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)	(PLI)
MT20	618	354	1667 788 1987 1659

PLATE PLACEMENT TOL = 0.260 inches

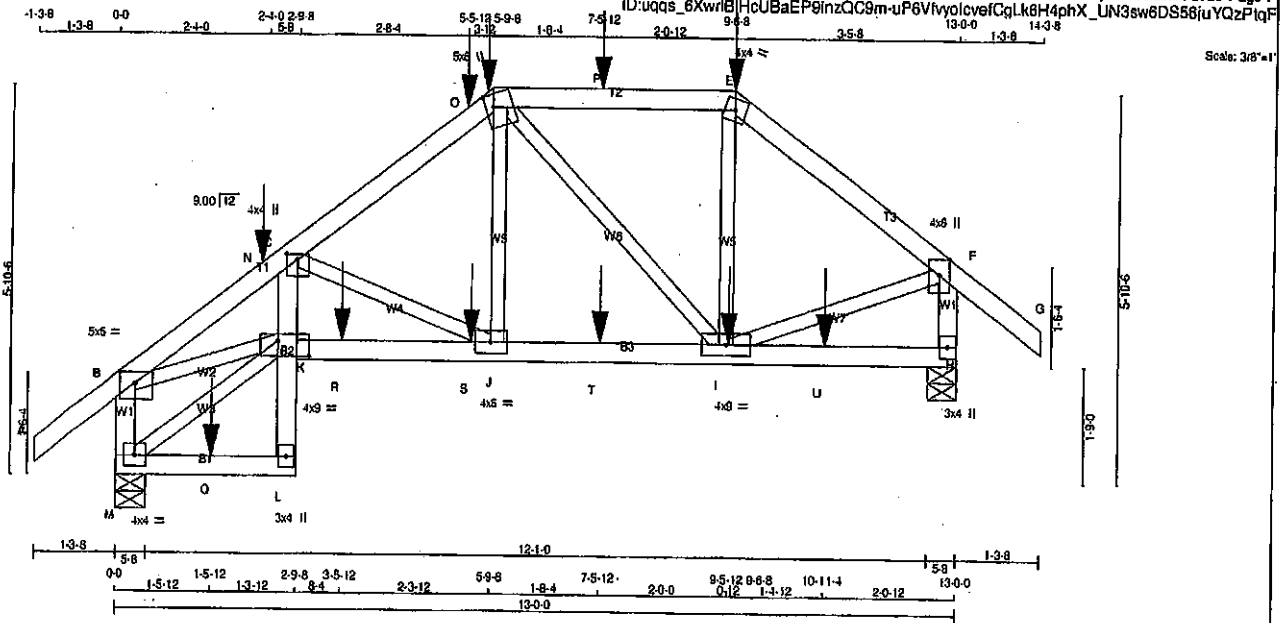
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.53 (B) (INPUT = 0.80)
JSI METAL = 0.13 (B) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408188	T38S	1	1	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

Version 8.310 5 Oct 2019 MTak Industries, Inc. Fri Apr 17 09:25:22 2020 Page 1
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Scale: 3/8"=1'

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

DRY: SEASONED LUMBER.

PLATE TYPE	PLATES	W	LEN	Y	X
B TMW-p	MT20	5.0	8.0	2.00	2.75
C TMW-p	MT20	4.0	4.0	1.00	2.00
D TTW-m	MT20	5.0	8.0	2.25	1.50
E TTW-m	MT20	4.0	4.0		
F TMW-p	MT20	4.0	6.0	Edge	
H BMW1-p	MT20	3.0	4.0		
I BMW1-p	MT20	4.0	9.0		
J BMW1-p	MT20	4.0	6.0		
K BMW1-p	MT20	4.0	9.0	2.75	5.75
L BMW1-p	MT20	3.0	4.0		
M BMW1-p	MT20	4.0	4.0		

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT 1179	DOWN 1179	0	5-8
H	HORIZ 0	HORIZ 0	0	5-8
M	VERT 1128	DOWN 1128	0	5-8

UNFACTORED REACTIONS	1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW LIVE PERM.LIVE WIND DEAD SOIL
H	831	580 0 0 0 0 271 0 0 0
M	795	535 0 0 0 0 260 0 0 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.55 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	FACTORED HORIZ. LOAD (LBS)	MAX. UNBRACED LENGTH (FT)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)
FR-TO					FR-TO		
A-B	0.38	-91.8	-91.8	10.00	C-J	-843.0	0.21 (1)
B-N	-2074.0	-91.8	-91.8	10.00	J-D	0.374	0.08 (1)
N-C	-2074.0	-91.8	-91.8	10.00	D-I	-269.0	0.12 (1)
C-O	-1200.0	-91.8	-91.8	10.00	I-E	0.93	0.04 (4)
O-D	-1200.0	-91.8	-91.8	10.00	E-F	0.834	0.21 (1)
D-P	-792.0	-91.8	-91.8	10.00	F-K	-64.0	0.01 (1)
P-E	-792.0	-91.8	-91.8	10.00	K-X	0.1730	0.43 (1)
E-F	-991.0	-91.8	-91.8	10.00			
F-G	0.38	-91.8	-91.8	10.00			
M-B	-1071.0	0.0	0.0	10.00			
H-F	-1148.0	0.0	0.0	10.00			
M-Q	0.44	-18.5	-18.5	10.00			
Q-L	0.44	-18.5	-18.5	10.00			
L-K	0.29	0.0	0.0	10.00			
K-C	0.509	0.0	0.0	10.00			
K-R	0.1741	-18.5	-18.5	10.00			
R-S	0.1741	-18.5	-18.5	10.00			
S-J	0.1741	-18.5	-18.5	10.00			
J-T	0.978	-18.5	-18.5	10.00			
T-I	0.978	-18.5	-18.5	10.00			
I-U	0.0	-18.5	-18.5	10.00			
U-H	0.0	-18.5	-18.5	10.00			

FACTORED CONCENTRATED LOADS (LBS)	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
JT	5-8	-128	-128	FRONT	VERT	TOTAL	---	C1
D	9-6	-208	-208	FRONT	VERT	TOTAL	---	C1
E	9-5-12	-13	-13	FRONT	VERT	TOTAL	---	C1
I	2-4	-9	-9	FRONT	VERT	DEAD	---	C1
N	2-4	-41	-41	FRONT	VERT	SNOW	---	C1
O	5-5-12	-98	-98	FRONT	VERT	TOTAL	---	C1
P	7-5-12	-67	-67	FRONT	VERT	TOTAL	---	C1
Q	1-5-12	-3	-3	FRONT	VERT	TOTAL	---	C1
R	3-5-12	-15	-15	FRONT	VERT	TOTAL	---	C1
S	5-5-12	-13	-13	FRONT	VERT	TOTAL	---	C1
T	7-5-12	-13	-13	FRONT	VERT	TOTAL	---	C1
U	10-11-4	-13	-13	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

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

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

SPACING = 24.0 IN./C

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

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.43")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.35/1.00 (D-E:1), BC=0.35/1.00 (J-K:1), WB=0.43/1.00 (B-K:1), SSI=0.18/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE 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 1687 788 1987 1658

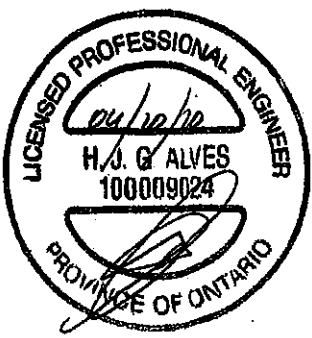
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.51 (F) (INPUT = 1.00)

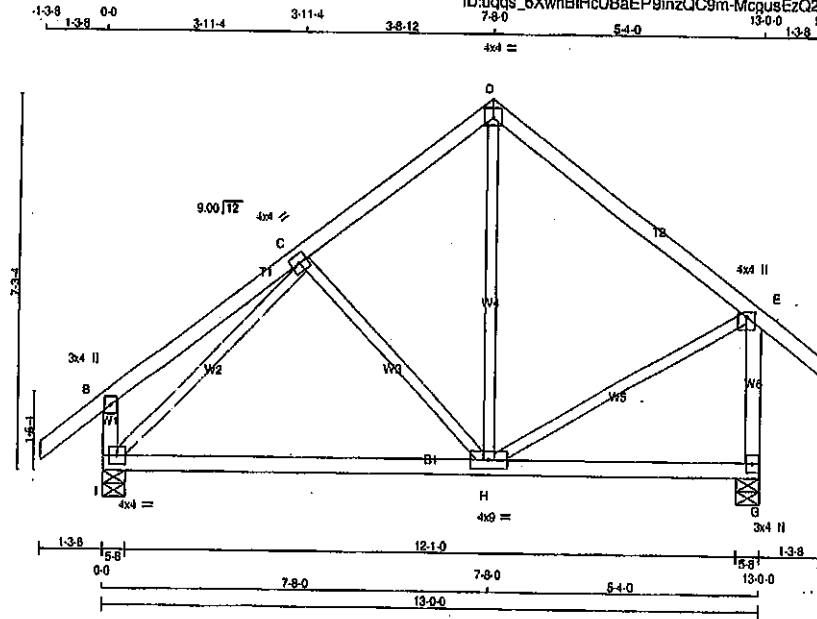
Structural component only
DWG# T-2006449



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408188	T39	5	1	GREEN PARK HOMES		

Tamarack Floor Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:26:23 2020 Page 1
ID:uggs_6XwrtBtHcUBaEP9InzQC9m-McqusEzQ2w1VGMEXlqpJMu49PmQ4faSbKrmSR5tzPlqE



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

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

DRY: SEASONED LUMBER.

PLATES (table in inches)	JT	TYPE	PLATES	W	LEN	Y	X
B - TMV+p	MT20	3.0	4.0				
C - TMW-W-I	MT20	4.0	4.0				
D - TTW-p	MT20	4.0	4.0	2.25	2.00		
E - TMVW+p	MT20	4.0	4.0	1.00	2.00		
G - BMV1+p	MT20	3.0	4.0				
H - BMVW-W-I	MT20	4.0	9.0				
I - BMVW1-I	MT20	4.0	4.0				

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

BEARINGS	FACTORED		MAXIMUM FACTORED		INPUT	RECORD
	GROSS REACTION	DOWN	GROSS REACTION	UP		
JT	VERT	HORZ	DOWN	HORZ	BRG	BRG
I	843	0	843	0	5-8	5-8
G	843	0	843	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX. MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
I	594	403.0	0.0	0.0	0.0	191.0	0.0
G	594	403.0	0.0	0.0	0.0	191.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	FACTORED		FACTORED			MEMB.	FACTORED		
	FORCE	VERT.	LOAD	LC1	MAX.		FORCE	MAX.	
	(LBS)	(PLF)			CSI (LC)		(LBS)	CSI (LC)	
FR-TO		FROM	TO		UNBRAC	FR-TO			
A-B	0.38	-91.8	-91.8	0.12 (1)	10.00	C-H	-226.0	0.12 (1)	
B-C	0.25	-91.8	-91.8	0.22 (1)	10.00	H-D	0.129	0.04 (4)	
C-D	-449.0	-91.8	-91.8	0.17 (1)	8.25	I-C	-722.0	0.37 (1)	
D-E	-424.0	-91.8	-91.8	0.34 (1)	8.25	H-E	0.387	0.09 (1)	
E-F	0.38	-91.8	-91.8	0.12 (1)	10.00				
F-G	-260.0	0.0	0.0	0.03 (1)	7.81				
G-E	-813.0	0.0	0.0	0.15 (1)	7.81				
I-H	0.495	-18.5	-18.5	0.28 (4)	10.00				
H-G	0.0	-18.5	-18.5	0.25 (4)	10.00				

TOTAL WEIGHT = 5 X 61 = 303 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.43")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.34/1.00 (D-E:1), BC=0.28/1.00 (H-I:4), WB=0.37/1.00 (C-I:1), SSI=0.16/1.00 (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.

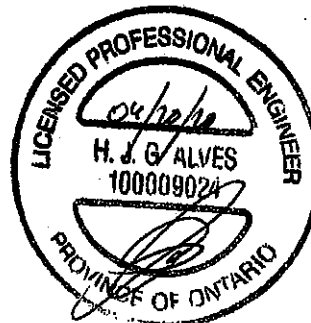
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (C) INPUT = 0.80
JSI METAL= 0.26 (C) INPUT = 1.00



Structural component only
DWG# T-2006450

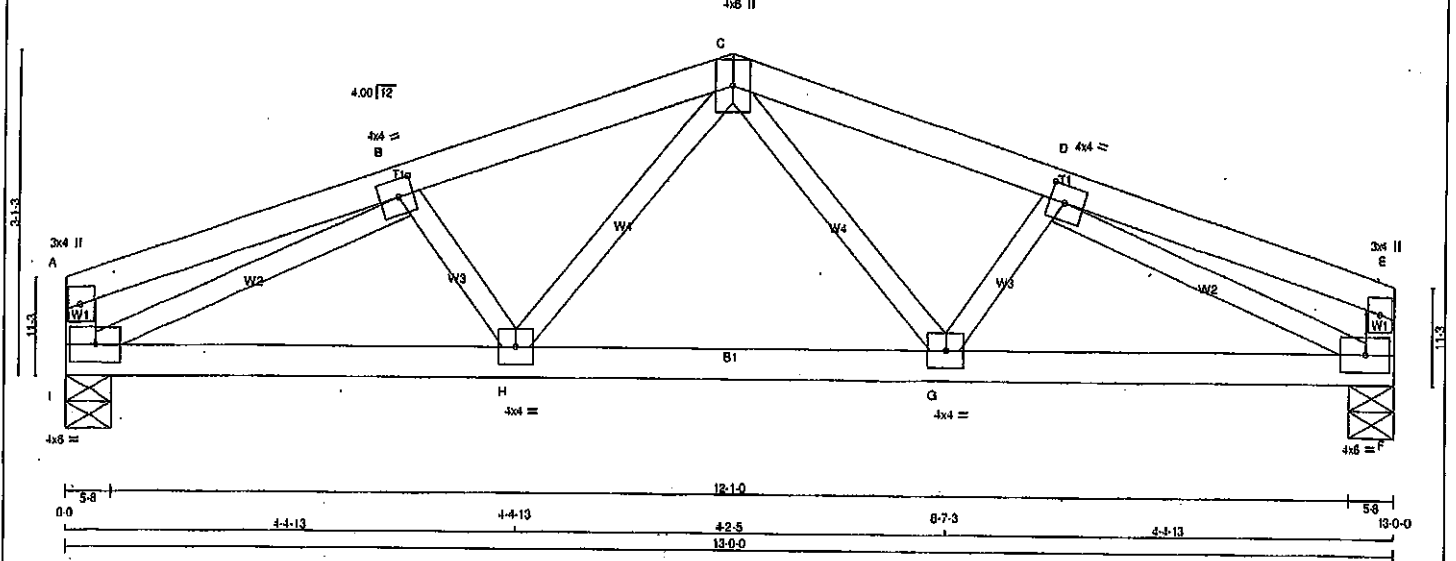
Tamarack Roof Trusses, Burlington

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Fri Apr 17 08:28:23 2020 Page 1

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Scale = 1:20.3

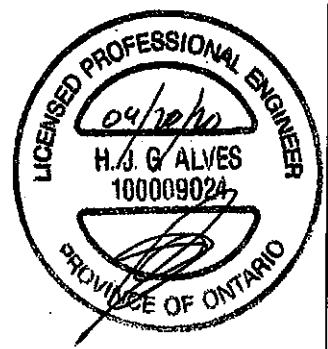


PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
A	TMV+P	MT20	3.0	4.0
B	TMVW-I	MT20	4.0	4.0 2.00 1.75
C	TTVW+P	MT20	4.0	6.0
D	TMVW-I	MT20	4.0	4.0 2.00 1.75
E	TMV+P	MT20	3.0	4.0
F	BMVW-I	MT20	4.0	8.0
G	BMVW-I	MT20	4.0	4.0
H	BMVW-I	MT20	4.0	4.0
I	BMVW-I	MT20	4.0	8.0

CHORDS	WEBS
--------	------

MAX. FACTORED		FACTORED		MEMB.		MAX. FACTORED	
FR-TO	FORCE (LBS)	VERT. LOAD (PLF)	MAX CSI (LC)	MAX. UNBRAC LENGTH	FR-TO	FORCE (LBS)	MAX CSI (LC)
A-B	0 / 0	-91.8	-91.8 0.13 (1)	10.00	C-G	0 / 260	0.06 (1)
B-C	-1042 / 0	-91.8	-91.8 0.11 (1)	6.04	G-D	-148 / 4	0.02 (1)
C-D	-1042 / 0	-91.8	-91.8 0.11 (1)	6.04	H-C	0 / 260	0.06 (1)
D-E	0 / 0	-91.8	-91.8 0.13 (1)	10.00	H-B	-148 / 4	0.02 (1)
F-A	-122 / 0	0.0	0.0 0.01 (1)	7.81	I-B	-1198 / 0	0.26 (1)
F-E	-122 / 0	0.0	0.0 0.01 (1)	7.81	O-F	-1198 / 0	0.26 (1)
F-H	0 / 1061	-18.5	-18.5 0.22 (1)	10.00			
H-G	0 / 824	-18.5	-18.5 0.16 (1)	10.00			
G-F	0 / 1061	-18.5	-18.5 0.22 (1)	10.00			

JSI GRIP= 0.79 (B) (INPUT = 0.90)
JSI METAL= 0.43 (B) (INPUT = 1.00)

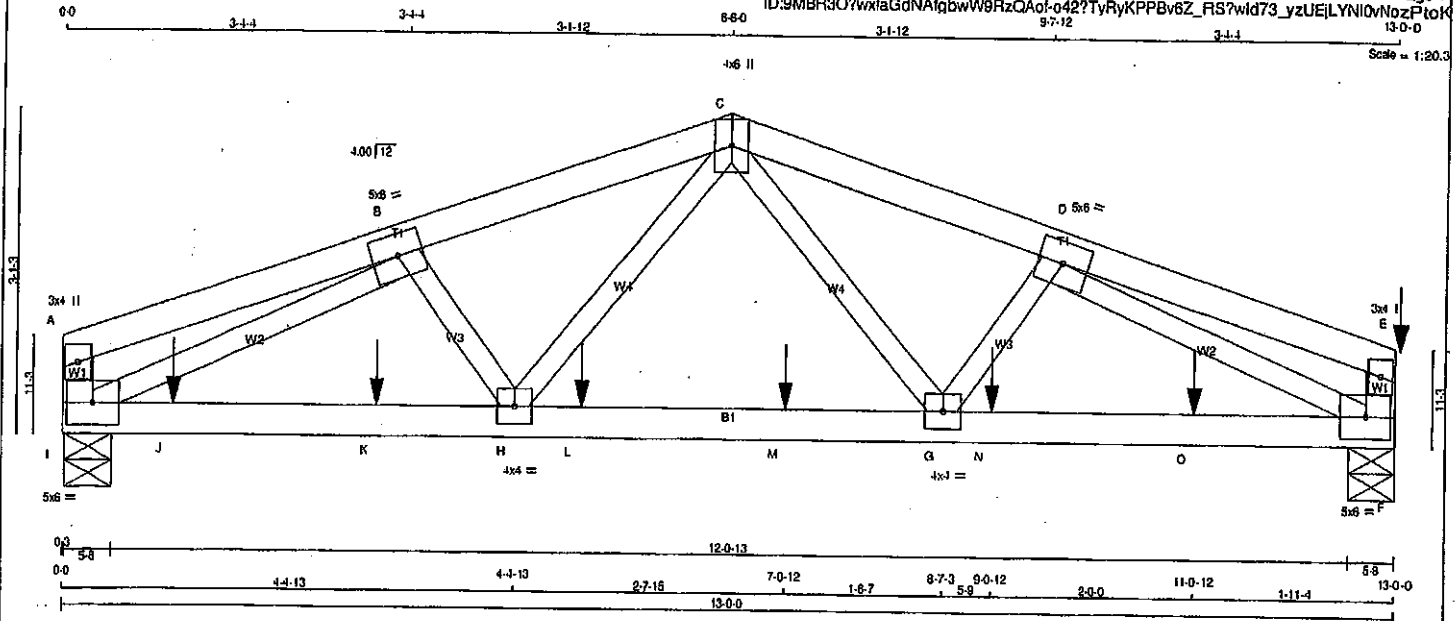


Structural component only
DWG# T-2006455

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408189	T53Z	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:28:25 2020 Page 1
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9-7-12 13-0-0 Scale = 1:20.3



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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C	12	TOP
C - E	12	TOP
I - A	12	TOP
F - E	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
I - F	12	SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMV-p	MT20	3.0	4.0		
B	TMWV-I	MT20	5.0	6.0		
C	TTWV-p	MT20	4.0	6.0		
D	TMWV-I	MT20	5.0	6.0		
E	TMV-p	MT20	3.0	4.0		
F	BMWV-I	MT20	5.0	6.0		
G	BMWV-I	MT20	4.0	4.0		
H	BMWV-I	MT20	4.0	4.0		
I	BMWV-I	MT20	5.0	6.0		

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

BEARINGS								
FACTORED			MAXIMUM FACTORED			INPUT	REQD	
JT	GROSS REACTION		GROSS REACTION		BRG	BRG		
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
I	2267	0	2267	0	0	5-8	5-8	
F	2267	0	2267	0	0	5-8	5-8	

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	1590	1118	0	0	0	471	0
F	1598	1135	0	0	0	451	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.91 FT. 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 (LBS)	MAX. FACTORED (PLF)	MEMB.	FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED (PLF)
FR-TO				FR-TO			
A-B	0/3	-91.8	-91.8 0.08 (1)	C-G	0/958	0.12 (1)	10.00
B-C	-3507/0	-91.8	-91.8 0.12 (1)	G-D	0/239	0.03 (1)	10.00
C-D	-3247/0	-91.8	-91.8 0.11 (1)	H-C	0/1370	0.17 (1)	10.00
D-E	0/4	-91.8	-91.8 0.08 (1)	B-H	0/288	0.04 (1)	10.00
I-A	-140/0	0.0	0.0 0.01 (1)	I-B	-3580/0	0.45 (1)	10.00
F-E	-558/0	0.0	0.0 0.03 (1)	D-F	-3329/0	0.42 (1)	10.00
I-J	0/3168	-18.5	-18.5 0.68 (1)				
J-K	0/3168	-18.5	-18.5 0.68 (1)				
K-H	0/3168	-18.5	-18.5 0.68 (1)				
H-L	0/2503	-18.5	-18.5 0.62 (1)				
L-M	0/2503	-18.5	-18.5 0.62 (1)				
M-G	0/2503	-18.5	-18.5 0.62 (1)				
G-N	0/2946	-18.5	-18.5 0.50 (1)				
N-O	0/2946	-18.5	-18.5 0.50 (1)				
O-F	0/2946	-18.5	-18.5 0.50 (1)				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX.	FACE	VERT	TYPE
E	13-0-0	-421	-421	---	TOP	VERT	TOTAL
J	1-0-12	-507	-507	---	FRONT	VERT	TOTAL
K	3-0-12	-507	-507	---	FRONT	VERT	TOTAL
L	5-0-12	-507	-507	---	FRONT	VERT	TOTAL
M	7-0-12	-507	-507	---	FRONT	VERT	TOTAL
N	9-0-12	-387	-387	---	TOP	VERT	TOTAL
O	11-4-12	-265	-265	---	TOP	VERT	TOTAL

CONNECTION REQUIREMENTS

1) G1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = $\frac{1}{360}$ (0.43")
CALCULATED VERT. DEFL.(LL) = $\frac{1}{999}$ (0.06")
ALLOWABLE DEFL.(TL) = $\frac{1}{360}$ (0.43")
CALCULATED VERT. DEFL.(TL) = $\frac{1}{999}$ (0.12")

CSK: TC=0.12/1.00 (B-C:1), BC=0.68/1.00 (H-I:1), WB=0.45/1.00 (B-I:1), SS=0.30/1.00 (G-H:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00

COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

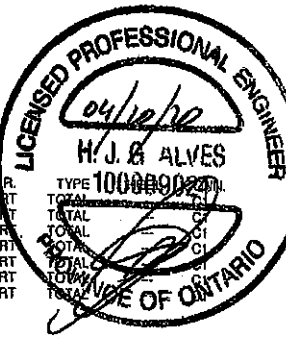
PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MT20	618	354	1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

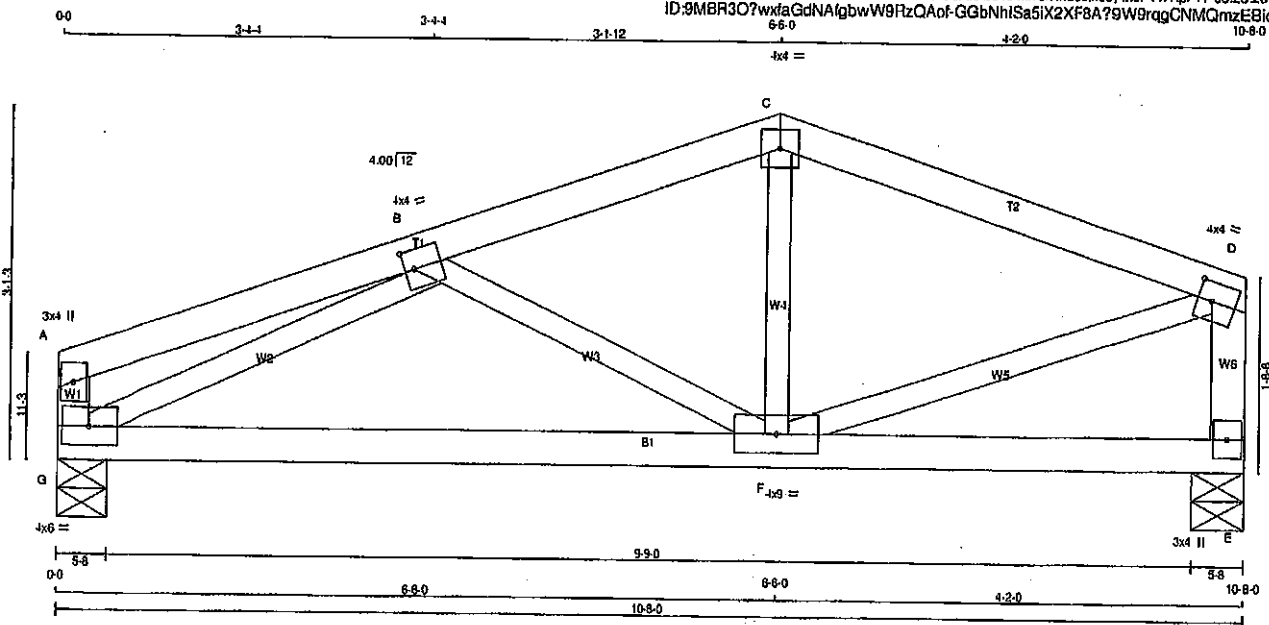
JSI GRIP = 0.90 (F) (INPUT = 0.90)

JSI METAL = 0.45 (D) (INPUT = 1.00)



Structural component only
DWG# T-2006456

JOB NAME 408189	TRUSS NAME T55	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.310 5 Oct 2019 Mitek Industries, Inc. Fri Apr 17 08:20:26 2020 Page 1			
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		Scale = 1:18.6			



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

PLATES (table/s in inches)	JT TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	3.0	4.0		
B	TMVW-1	MT20	4.0	4.0	2.00	1.00
C	TTW-p	MT20	4.0	4.0		
D	TMVW-1	MT20	4.0	4.0	2.00	1.50
E	BMV1+p	MT20	3.0	4.0		
F	BMVWV-1	MT20	4.0	9.0		
G	BMVWV-1	MT20	4.0	6.0		

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

BEARINGS		FACTORED		MAXIMUM FACTORED			INPUT	REQD
		GROSS REACTION		GROSS REACTION		BRG		BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX		IN-SX
E	588	0	588	0	0	5-8		5-8
G	588	0	588	0	0	5-8		5-8

UNFACTORED REACTIONS

JT	1ST LOOSE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	416	273.0	0.0	0.0	0.0	0.0	143.0	0.0
G	416	273.0	0.0	0.0	0.0	0.0	143.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LG1 MAX. CSI (LG)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LG)		
FR-TO		FROM	TO		FR-TO				
A-B	0 / 10	-91.8	-91.8	0.14 (1)	10.00	B-F	-289	0	0.07 (1)
B-C	-598/0	-91.8	-91.8	0.11 (1)	6.25	F-C	0	83	0.03 (4)
C-D	-598/0	-91.8	-91.8	0.21 (1)	6.25	G-B	-895	0	0.22 (1)
G-A	-121/0	0.0	0.0	0.01 (1)	7.81	F-D	0	597	0.13 (1)
E-D	-585-0	0.0	0.0	0.06 (1)	7.81				
G-F	0 / 793	-18.5	-18.5	0.22 (4)	10.00				
F-E	0 / 0	-18.5	-18.5	0.17 (4)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

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

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

(56 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.38")
CALCULATED VERT. DEFL. (LL) = L/999 (0.01")
ALLOWABLE DEFL. (TL) = L/360 (0.38")
CALCULATED VERT. DEFL. (TL) = L/999 (0.06")

CSI: TC=0.21/1.00 (C-D:1), BC=0.22/1.00 (F-G:4),
WB=0.22/1.00 (B-G:1), SS=0.14/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1867 783 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.82 (D) (INPUT = 0.90)
JSI METAL = 0.29 (B) (INPUT = 1.00)

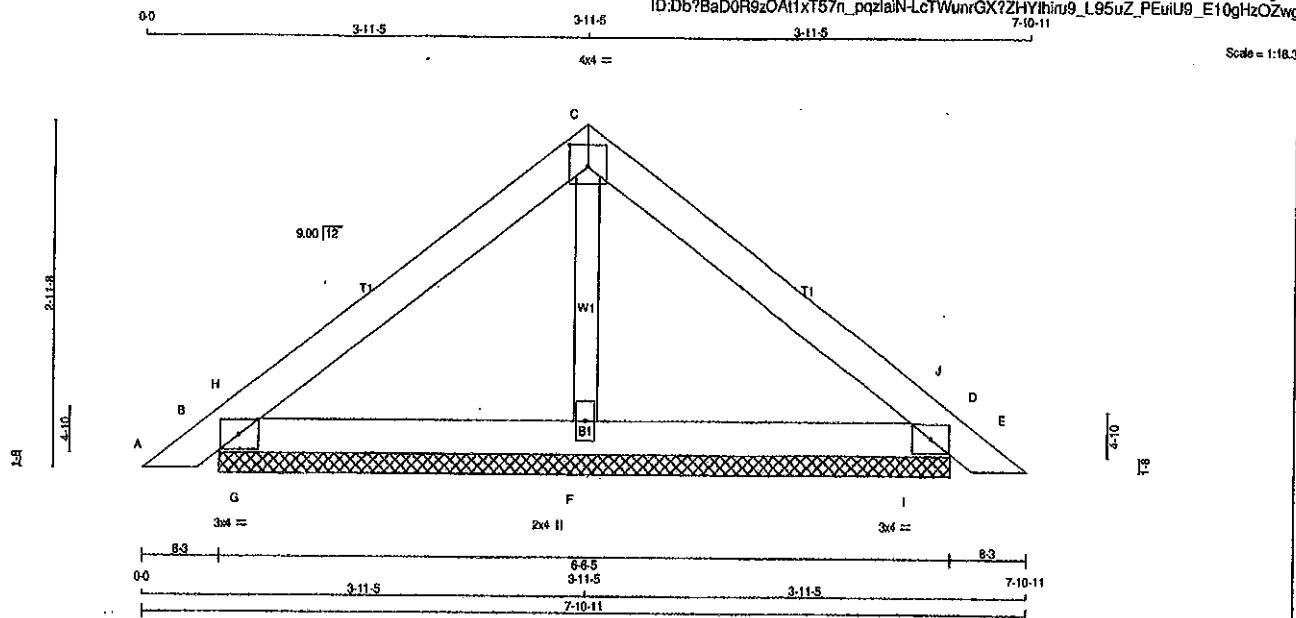


Structural component only
DWG# T-2006457

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408187	PB1	15	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 21 07:53:55 2020 Page 1

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-I	MT20	3.0	4.0	
C	TTW-p	MT20	4.0	4.0	2.25 2.00
D	TMB1-I	MT20	3.0	4.0	
F	BMW1+V	MT20	2.0	4.0	

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	RECORD
		GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
B	282	0	282	0	6-6-5
D	282	0	282	0	6-6-5
F	285	0	285	0	6-6-5

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	197	142/0	0/0	0/0	0/0	56/0	0/0
D	197	142/0	0/0	0/0	0/0	56/0	0/0
F	190	111/0	0/0	0/0	0/0	78/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0/15	-91.8	-91.8 0.02 (1)	F-C	-116/0	0.02 (1)	
B-H	-28/0	-91.8	-91.8 0.08 (1)	G-H	-295/0	0.00 (1)	
H-C	-119/0	-91.8	-91.8 0.11 (1)	F-J	-295/0	0.00 (1)	
C-J	-119/0	-91.8	-91.8 0.11 (1)				
J-D	-28/0	-91.8	-91.8 0.08 (1)				
D-E	0/15	-91.8	-91.8 0.02 (1)				
B-G	0/88	-18.5	-18.5 0.12 (1)				
G-F	0/88	-18.5	-18.5 0.12 (1)				
F-I	0/88	-18.5	-18.5 0.12 (1)				
I-D	0/88	-18.5	-18.5 0.12 (1)				

TOTAL WEIGHT = 15 X 20 = 307 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

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

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

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

CSI: TC=0.11/1.00 (C-J:1), BC=0.12/1.00 (F-I:1), WB=0.02/1.00 (C-F:1), SS=0.22/1.00 (B-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

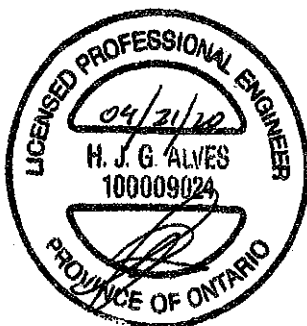
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PS) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

Structural component only
DWG# T-2008619

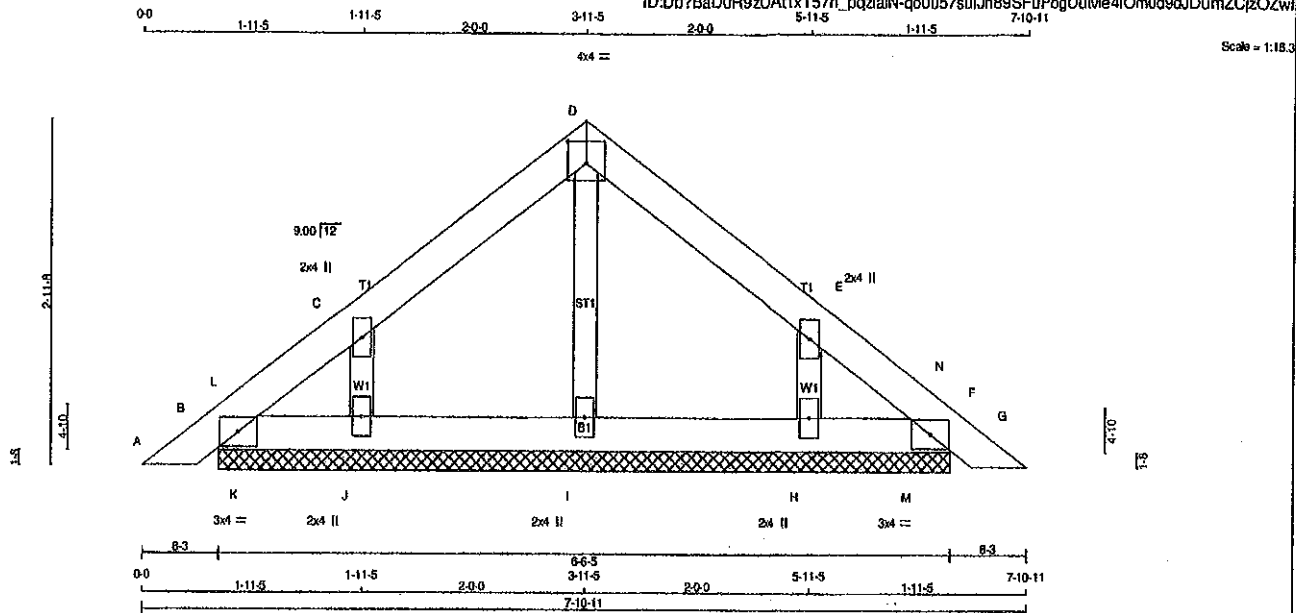


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408187	PB1G	2	1	TRUSS DESC.		

Tamareck Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 21 07:53:56 2020 Page 1

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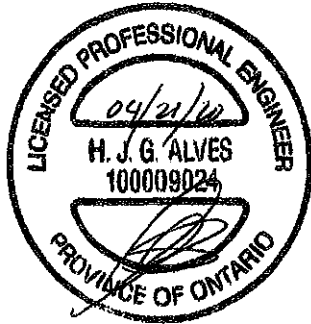


LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER
A - D	2x4	DRY	No.2	
D - G	2x4	DRY	No.2	
B - F	2x4	DRY	No.2	
ALL WEBS	2x3	DRY	No.2	
ALL GABLE WEBS	2x3	DRY	No.2	
DRY: SEASONED LUMBER.				
GABLE STUDS SPACED AT 2-0-0 OC.				

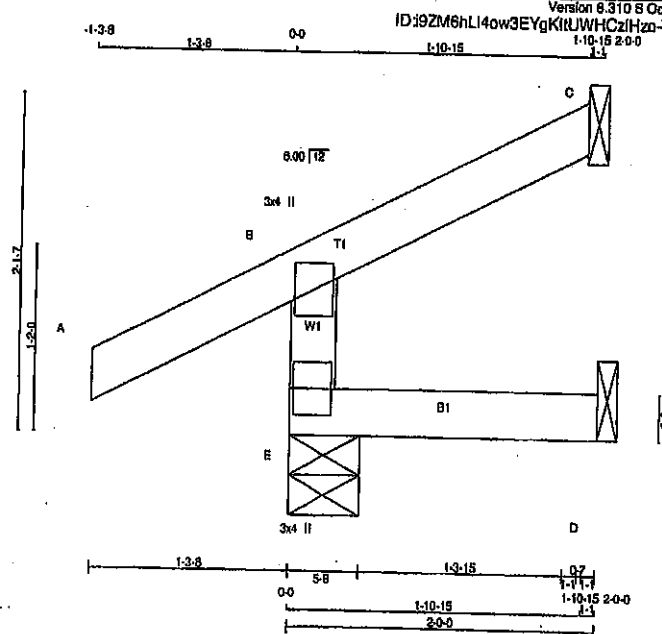
PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-I	MT20	3.0	4.0	
C	TMW+u	MT20	2.0	4.0	
D	TTW+p	MT20	4.0	4.0	2.25 2.00
E	TMW+u	MT20	2.0	4.0	
F	TMB1-I	MT20	3.0	4.0	
H, I, J	BMW1+u	MT20	2.0	4.0	

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.									
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.									
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.									
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.									
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.									
LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX (CSI (LC))	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX (CSI (LC))	MAX. UNBRACED LENGTH (FT)
FR-TO		FROM	TO		FR-TO		FROM	TO	
A-B	0 / 15	-91.8	-91.8	0.02 (1)	10.00	I-D	-119 / 0	0.02 (1)	10.00
B-L	-64 / 0	-91.8	-91.8	0.00 (1)	6.25	J-C	-188 / 0	0.03 (1)	10.00
L-C	-27 / 0	-91.8	-91.8	0.05 (1)	6.25	H-E	-188 / 0	0.03 (1)	10.00
C-D	-42 / 0	-91.8	-91.8	0.05 (1)	6.25	K-L	0 / 8	0.00 (1)	10.00
D-E	-42 / 0	-91.8	-91.8	0.05 (1)	6.25	M-N	0 / 8	0.00 (1)	10.00
E-N	-27 / 0	-91.8	-91.8	0.05 (1)	6.25				
N-F	-64 / 0	-91.8	-91.8	0.00 (1)	6.25				
F-G	0 / 15	-91.8	-91.8	0.02 (1)	10.00				
B-K	0 / 42	-18.5	-18.5	0.01 (1)	10.00				
K-J	0 / 42	-18.5	-18.5	0.01 (4)	10.00				
J-I	0 / 26	-18.5	-18.5	0.02 (4)	10.00				
I-H	0 / 25	-18.5	-18.5	0.02 (4)	10.00				
H-M	0 / 42	-18.5	-18.5	0.01 (4)	10.00				
M-F	0 / 42	-18.5	-18.5	0.01 (1)	10.00				

DESIGN CRITERIA	
SPECIFIED LOADS:	
TOP CH. LL	= 25.8 PSF
DL	= 8.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 PSF
SPACING = 24.0 IN. OC	
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015	
THIS DESIGN COMPLIES WITH:	
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019	
- PART 9 OF OBC 2012 (2019 AMENDMENT)	
- CSA 088-09, CSA 086-14	
- TPIC 2011, TPIC 2014	
(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD	
CSI: TC=0.05/1.00 (D-E:1), BC=0.02/1.00 (I-J:4), WB=0.03/1.00 (C-J:1), SSI=0.07/1.00 (D-E:1)	
DOL LUMBER=1.00 NAIL=1.00 L3 BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10	
COMPANION LIVE LOAD FACTOR = 1.00	
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.	
NAIL VALUES	
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)	
MAX MIN MAX MIN MAX MIN	
MT20 618 354 1667 788 1987 1658	
PLATE PLACEMENT TOL. = 0.250 inches	
PLATE ROTATION TOL. = 5.0 Deg.	
JSI GRIP= 0.13 (E) (INPUT = 0.90)	
JSI METAL= 0.10 (C) (INPUT = 1.00)	



JOB NAME 408204	TRUSS NAME J1	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Pool Truss, Burlington				TRUSS DESC.	



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

DRY: SEASONED LUMBER.

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

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

JT	FACTORED		MAXIMUM FACTORED		INPUT	REQD
	GROSS REACTION		GROSS REACTION			
E	VERT	HORZ	DOWN	HORZ	8RG	8RG
E	254	0	254	0	IN-SX	IN-SX
C	68	0	68	0	5-8	5-8
D	18	0	18	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS					
E	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	177	130 / 0	0 / 0	0 / 0	0 / 0	47 / 0	0 / 0
C	48	37 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
D	13	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORZ. LOAD (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORZ. LOAD (LC1)	
FR-TO		FROM TO		FR-TO			
E-B	-234 / 0	0.0	0.0 (1) (4)				
A-B	0 / 28	-91.8	-91.8 (1) (1)				
B-C	-10 / 0	-91.8	-91.8 (1) (1)				
E-D	0 / 0	-18.5	-18.5 (1) (4)				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 7 = 22 k

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.6 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.02/1.00 (D-E:1),
WB=0.00/1.00 (n/a:0), SS=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

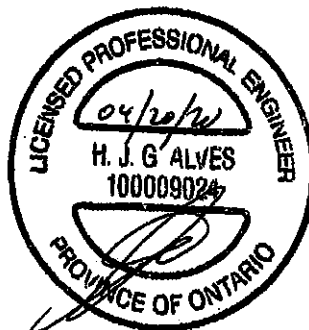
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

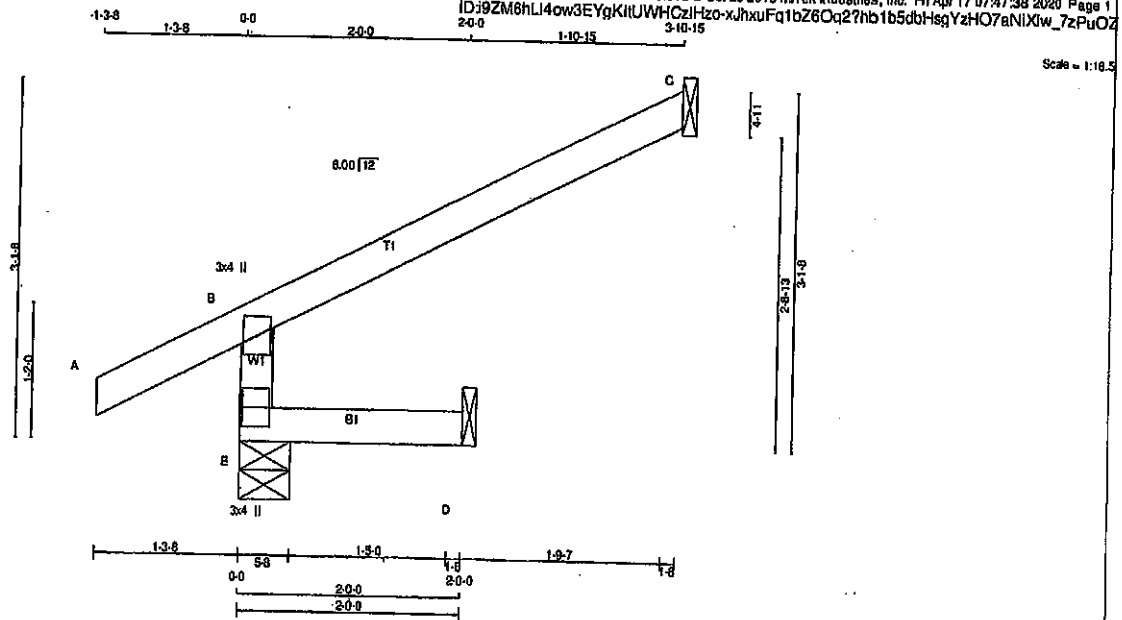
PLATE ROTATION TOL. = 5.0 Deg.

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



Structural component only
DWG# T-2006370

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408204	J2	3	1	GREEN PARK HOMES		
Tamarack Roof Trusses, Burlington						



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

DRY: SEASONED LUMBER.

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

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

BEARINGS		FACTORED			MAXIMUM FACTORED			INPUT	REORD
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG	IN-SX	BRG	IN-SX
E	389	0	389	0	0	5-8		5-8	
C	135	0	135	0	0	1-8		1-8	
D	16	0	18	0	0	1-8		1-8	

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

UNFACTORED REACTIONS	1ST LCASE	MAX MIN COMPONENT REACTIONS	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
JT	COMBINED							
E	258	194/0	0/0	0/0	0/0	0/0	62/0	0/0
C	93	75/0	0/0	0/0	0/0	0/0	18/0	0/0
D	13	0/0	0/0	0/0	0/0	0/0	13/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX. MAX. UNBRAC LENGTH FR-TO	WEBS	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
FR-TO		FROM TO					
E-B	-349/0	0.0	0.0	0.01 (4)	7.81		
A-B	0/28	-91.8	-91.8	0.13 (5)	10.00		
B-C	-20/0	-91.8	-91.8	0.24 (1)	6.25		
E-D	0/0	-18.5	-18.5	0.02 (4)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 10 = 30 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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

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

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL. (LL) = $L/360$ (0.19")
CALCULATED VERT. DEFL. (LL) = $L/998$ (0.00")
ALLOWABLE DEFL. (TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.00")

CS1: TC=0.24/1.00 (B-C:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (NA:0), SS=0.18/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1907 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

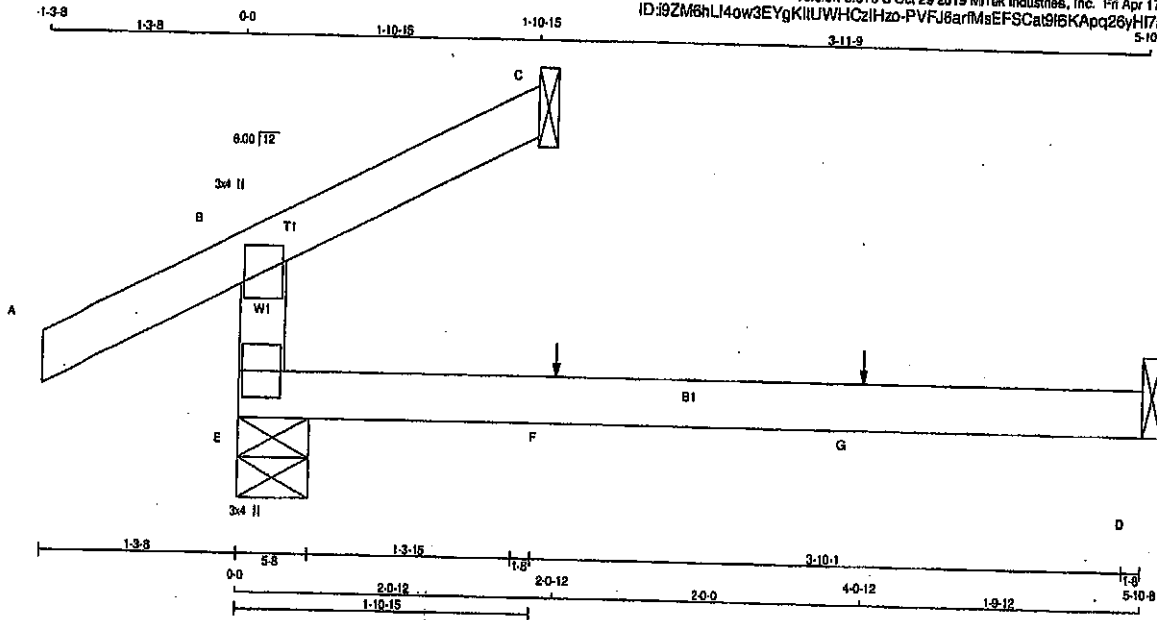


Structural component only
DWG# T-2006371

JOB NAME 408204	TRUSS NAME J3	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 07:47:39 2020 Page 1
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3-11-9 5-10-8

Scale = 1:13.4



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

DRY: SEASONED LUMBER.

PLATES (table in inches)

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT		REQ'D	
	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG	BRG	IN-SX
E	297	0	297	0	0	5-8	5-8	
C	68	0	68	0	0	1-8	1-8	
D	45	0	50	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	212	130.0	0.0	0.0	0.0	82.0	0.0
C	48	37.0	0.0	0.0	0.0	9.0	0.0
D	38	0.0	0.0	0.0	0.0	38.0	0.0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LOAD LC1 MAX. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH FR-TO	MAX. CS1 (LC)
FR-TO		FROM TO		FR-TO			
E-B	-234.0	0.0	0.0 0.13 (4)	7.81			
A-B	0.28	-91.8	-91.8 0.12 (1)	10.00			
B-C	-10.0	-91.8	-91.8 0.08 (1)	10.00			
E-F	0.0	-18.5	-18.5 0.13 (4)	10.00			
F-G	0.0	-18.5	-18.5 0.13 (4)	10.00			
G-D	0.0	-18.5	-18.5 0.13 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	2-0-12	1	1	---	BACK	VERT	TOTAL	---	C1
G	4-0-12	1	1	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 3 X 12 = 35 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. OC

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

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

DESIGN ASSUMPTIONS
OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.13/1.00 (B-E:4), BC=0.13/1.00 (D-E:4),
WB=0.00/1.00 (n/a:0), SS=0.08/1.00 (A-B:1)

DOL LUMBER=0.99 NAIL=0.99 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

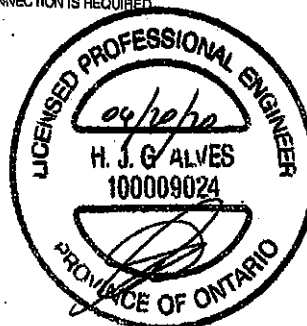
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 364 1667 788 1887 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.10 (E) (INPUT = 0.90)
JSI METAL = 0.07 (B) (INPUT = 1.00)

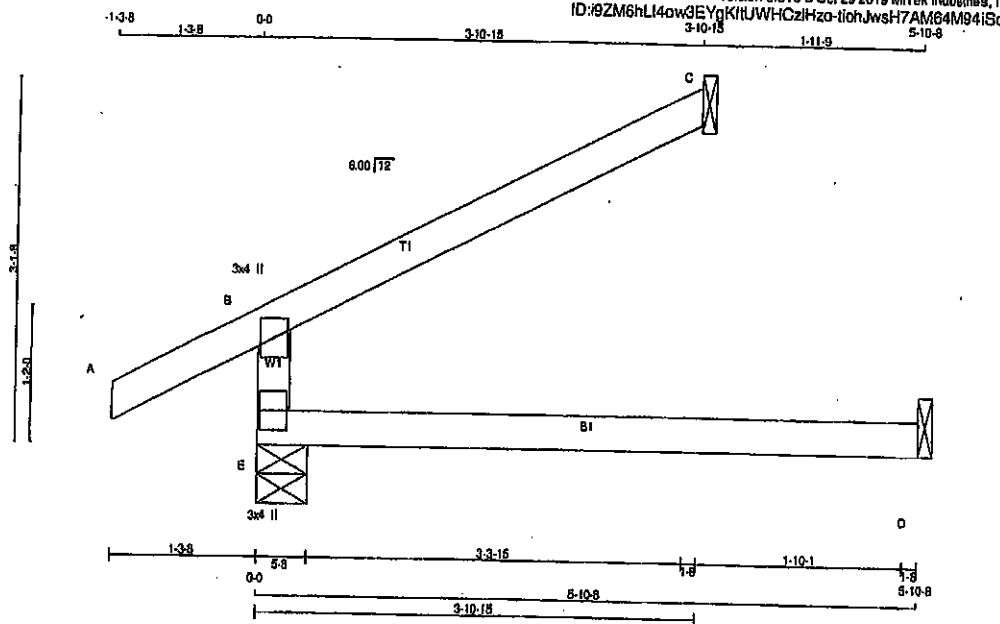


Structural component only
DWG# T-2006372

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408204	J4	3	1	GREEN PARK HOMES		
Tamarack Roof Truss, Burlington						

Version 8.310 8 Oct 2019 Mitek Industries, Inc. Fri Apr 17 07:47:40 2020 Page 1
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Scale = 1:18.2



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

DRY: SEASONED LUMBER.

PLATES (tablets in inches)

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
E	412	0	412	0	5-8	5-8
C	135	0	135	0	1-8	1-8
D	45	0	50	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LOASE		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
E	291	194/0	0/0	0/0	97/0	0/0	0/0
C	93	75/0	0/0	0/0	18/0	0/0	0/0
D	38	0/0	0/0	0/0	38/0	0/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. MEMB. FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO				
E-B	-349/0	0.0	0.0	0.13 (4)
A-B	0/28	-91.8	-91.8	0.12 (1)
B-C	-20/0	-91.8	-91.8	0.24 (1)
E-D	0.0	-18.5	-18.5	0.13 (4)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CS: TC=0.24/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (N/A:3), SS=0.18/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

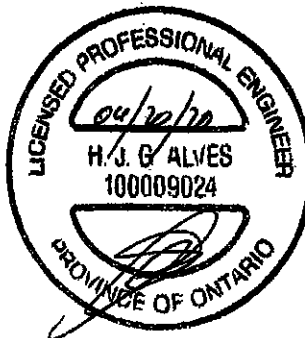
NAIL VALUES

PLATE GRIP (DRY) SHEAR SECTION	(PSI)	(PLI)	(PLI)
MAX MIN MAX MIN MAX MIN			
MT20	618	354	1667 786 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



Structural component only
DWG# T-2006372

Tamarack Pool Truss, Burlington



DRY: SEASONED LUMBER.

PLATES (table is in inches)

BEARINGS

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX/MIN COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	369	257 / 0	0 / 0	0 / 0	0 / 0	111 / 0	0 / 0
C	139	113 / 0	0 / 0	0 / 0	0 / 0	26 / 0	0 / 0
D	38	0 / 0	0 / 0	0 / 0	0 / 0	28 / 0	0 / 0

BRACING

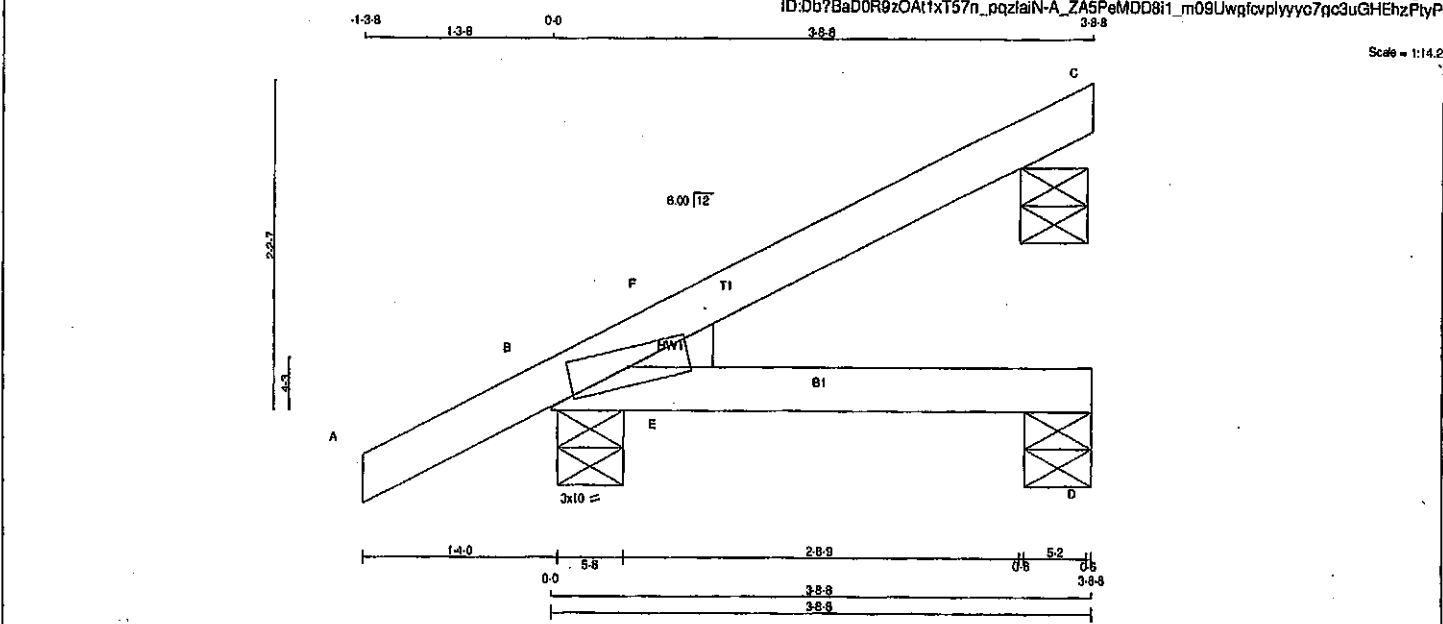
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
E-B	-481.0	0.0	0.0	0.13 (4)			7.81
A-B	0.28	-91.8	-91.8	0.12 (1)		10.00	
B-C	-307.0	-91.8	-91.8	0.54 (1)		6.25	
E-D	0.0	-18.5	-18.5	0.13 (4)		10.00	

Structural component only
DWG# T-2006374



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

DRY: SEASONED LUMBER.

PLATES (tablets in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B	TMBH1-m	MT20	3.0	10.0	

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	GROSS REACTION	VERT	HORZ	GROSS REACTION	DOWN	UP	BRG	BRG	HEEL
C	142	0	0	142	0	0	5-8	5-8	IN-SX
B	329	0	0	329	0	0	5-8	5-8	2x4 L
D	62	0	0	62	0	0	5-8	5-8	

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

UNFACTORED REACTIONS		TST LCASE		MAX/MIN COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERMALIVE	WIND
C	99	76.0	0.0	0.0	0.0
B	230	164.0	0.0	0.0	0.0
D	46	19.0	0.0	0.0	0.0

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

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

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

LOADING		TOTAL LOAD CASES: (5)	
CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0.28	A-B	-123.3
B-F	-17.0	B-F	0.00 (1)
F-C	0.5		
B-E	0.0		
E-D	0.0		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.15/1.00 (C-F:1), BC=0.14/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SSI=0.10/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

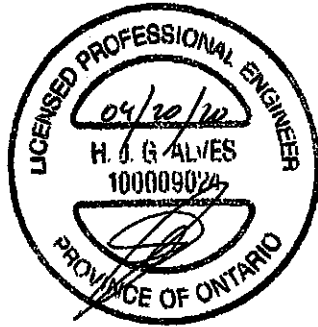
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 789 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.09 (B) (INPUT = 0.90)
JSI METAL= 0.02 (B) (INPUT = 1.00)



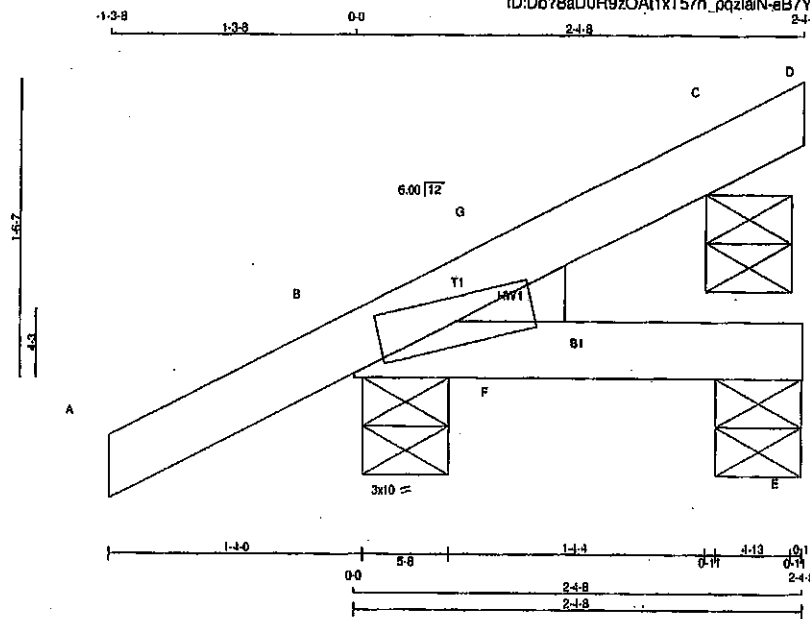
JOB NAME 408187	TRUSS NAME J7	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRAWG NO.
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Tamareck Flood Truss, Burlington

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Fri Apr 17 08:17:41 2020 Page 1

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Scale = 1:11.0



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

DRY: SEASONED LUMBER.

PLATES (tablets in inches)
JT TYPE PLATES W LEN Y X
B TM6H1-m MT20 3.0 10.0

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX	HEEL WEDGE
	VERT	HORZ	DOWN	HORZ			
B	244	0	244	0	5-8	5-8	2x4 L
E	38	0	38	0	5-8	5-8	
C	112	0	112	0	5-8	5-8	

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

UNFACTORED REACTIONS

JT	1ST CASE		MAX. MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
B	170	124.0	0.0	0.0	0.0	46.0	0.0
E	27	11.0	0.0	0.0	0.0	16.0	0.0
C	78	59.0	0.0	0.0	0.0	19.0	0.0

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

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

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

LOADING
TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
A-B	0.26	-91.8	-91.8 0.12 (5)	F-G	-40.8	0.00 (1)	
B-G	-16.0	-91.8	-91.8 0.04 (1)				
G-C	0.10	-91.8	-91.8 0.05 (1)				
C-D	-7.0	-91.8	-91.8 0.01 (1)				
B-F	0.0	-18.5	-18.5 0.05 (1)				
F-E	0.0	-18.5	-18.5 0.05 (1)				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

CSI: TC=0.12/1.00 (A-B:5), BC=0.05/1.00 (E-F:1), WB=0.00/1.00 (F-G:1), SS=0.09/1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

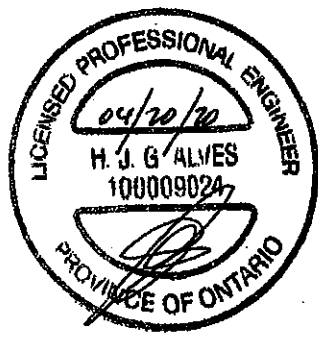
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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 = 0.05 (B) (INPUT = 0.90)
JSI METAL = 0.01 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006422

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Fri Apr 17 08:17:42 2020 Page 1
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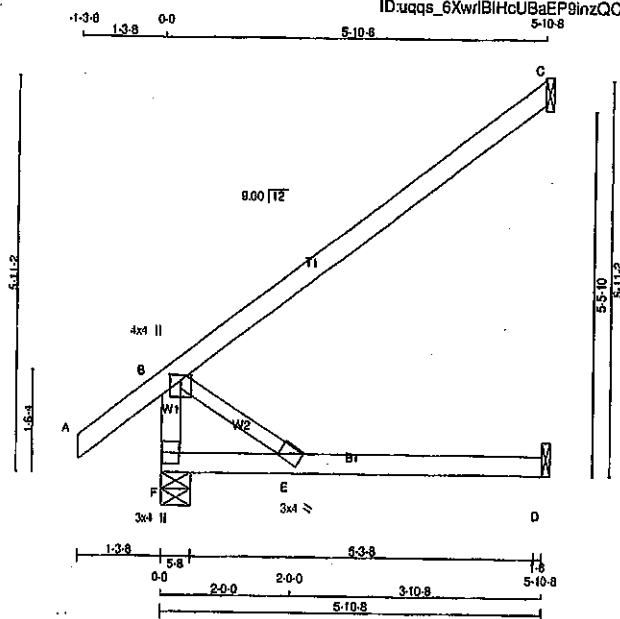


Structural component only
DWG# T-2006423

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408188	J31	4	1	GREEN PARK HOMES		

Tamarack Floor Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:26:06 2020 Page 1
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Scale: 3/8"=1'

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.			

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
F	450	0	450	0
C	270	0	270	0
D	54	0	61	0

TOTAL WEIGHT = 4 X 20 = 81 lb

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	3.0	4.0	
	F	BMV1+p	MT20	3.0	4.0	

SEE MTEK STANDARD DETAIL B87791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS	1ST CASE	MAX MIN COMPONENT REACTIONS
JT	COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
F	318	221 0 0 0 0 0 95 0 0 0
C	186	150 0 0 0 0 0 35 0 0 0
D	43	0 0 0 0 0 0 43 0 0 0

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
F-B	-398 0	0.0 0.0 0.04 (1)	B-E	0.0 0.00 (1)
A-B	0 38	-91.8 -91.8 0.12 (1)		
B-C	0 0	-91.8 -91.8 0.54 (1)		
F-E	0 0	-18.5 -18.5 0.17 (4)		
E-D	0 0	-18.5 -18.5 0.19 (4)		

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. G/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2010, NBC 2012, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 085-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.54/1.00 (B-C:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=0.17/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

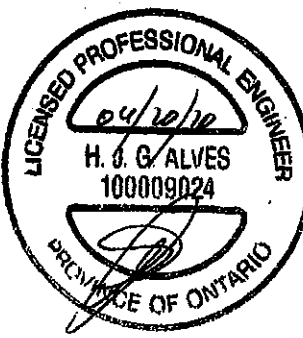
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.32 (B) (INPUT = 0.90)
JSI METAL = 0.08 (B) (INPUT = 1.00)



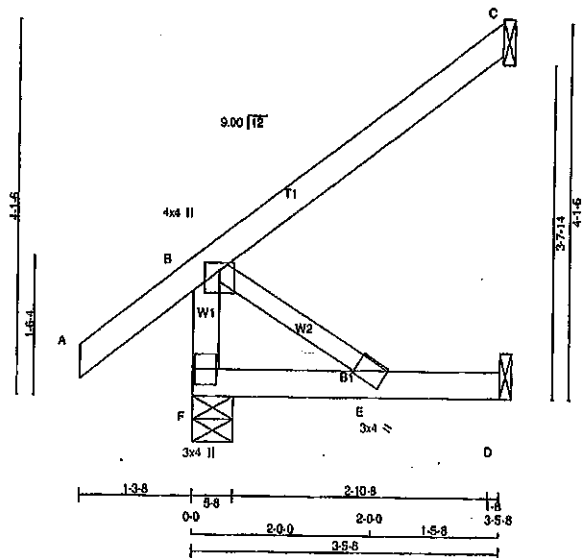
Structural component only
DWG# T-2006436

JOB NAME 408188	TRUSS NAME J32	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2018 Mittek Industries, Inc. Fri Apr 17 08:26:07 2020 Page 1

1-3.8 1-3.8 0-0 3-5.8 3-5.8



Scale = 1:23.3

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	BMVW+w	MT20	3.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
	DOWN	DOWN	IN-SX	IN-SX
JT	VERT	HORZ	UPLIFT	
F	317	0	0	5-8
C	159	0	0	1-8
D	32	0	0	1-8

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

UNFACTORED REACTIONS

1ST CASE	MAX/MIN	COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM	LIVE	WIND	DEAD
F	222	159.0	0.0	0.0	0.0	0.0	83.0
C	109	88.0	0.0	0.0	0.0	0.0	21.0
D	25	0.0	0.0	0.0	0.0	0.0	26.0

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	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE	VERT. LOAD LC1	MEMB.	FORCE
	(LBS)	(PLF)		(LBS)
FR-TO		FROM TO	FR-TO	
F-B	-285.0	0.0	0.0	0.00 (1)
A-B	0.38	-81.8	-91.8	0.14 (5)
B-C	0.0	-91.8	-91.8	0.19 (1)
F-E	0.0	-18.5	-18.5	0.06 (4)
E-D	0.0	-18.5	-18.5	0.06 (4)

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 4 X 14 = 56 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

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

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

CSI: TC=0.19/1.00 (B-C:1), BC=0.08/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SSI=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1887 788 1907 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



Structural component only
DWG# T-2006437

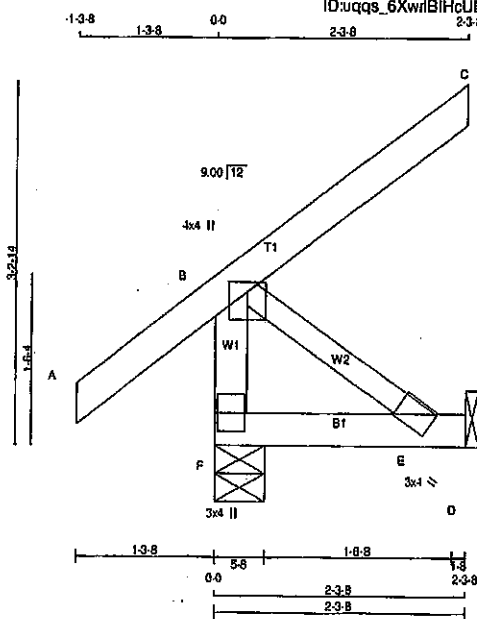
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408188	J33	1	1	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:26:09 2020 Page 1

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Scale = 1:19.0



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 (tablets in inches)	W	LEN	Y	X
BT TYPE PLATES	4.0	4.0	1.00	2.00
BT TYPE PLATES	3.0	4.0		
BT TYPE PLATES	3.0	4.0		

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
F	386	0	386	0
D	21	0	21	0

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

UNFACTORED REACTIONS							
	1ST CASE	MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	254	192 0	0 0	0 0	0 0	62 0	0 0
D	17	0 0	0 0	0 0	0 0	17 0	0 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING		TOTAL LOAD CASES: (5)	
CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)
FR-TO			
F-B	-345 / 0	0.0	0.0 (1)
A-B	0 / 38	-91.8	-91.8 (5)
B-C	-65 / 0	-91.8	-91.8 (1)
F-E	0 / 0	-18.5	-18.5 (4)
E-D	0 / 0	-18.5	-18.5 (2)

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:	TOP CH.	LL	PSF
	DL	25.6	PSF
	DL	6.0	PSF
	DL	0.0	PSF
	DL	7.4	PSF
	DL	39.0	PSF

SPACING = 24.0 IN. C/C

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

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

DESIGN ASSUMPTIONS
- OVERHANG NOT TO BE ALTERED OR CUT OFF.
(85 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19')
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=0.36/1.00 (B-C:1), BC=0.03/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SSI=0.14/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

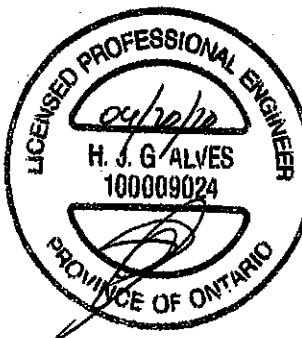
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

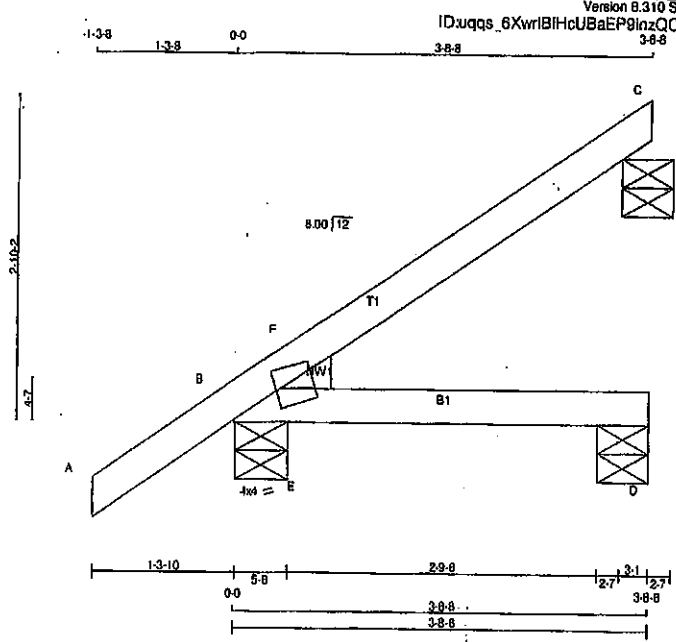
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.27 (B) INPUT = 0.30
JSI METAL = 0.07 (B) INPUT = 1.00



Structural component only
DWG# T-2006438

JOB NAME 408188	TRUSS NAME J35	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMBH1-m	MT20	4.0	4.0	2.00 0.50

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG	HEEL WEDGE
VT	VERT	DOWN	IN-SX	IN-SX	
C	144	144	0	5-8 (3-1)	5-8
B	330	330	0	5-8	5-8
D	61	61	0	5-8	2x4 L

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
C	99	77.0	0.0	0.0	0.0	0.0	22.0	0.0
B	231	165.0	0.0	0.0	0.0	0.0	66.0	0.0
D	45	18.0	0.0	0.0	0.0	0.0	27.0	0.0

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

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

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

LOADING
TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLP)	MAX. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0.734	-91.8	-91.8 0.14 (5)	10.00	E-F	-155.0	0.00 (1)
B-F	-18.0	-91.8	-91.8 0.04 (4)	6.25			
F-C	0.3	-91.8	-91.8 0.15 (1)	10.00			
B-E	0.0	-18.5	-18.5 0.14 (1)	10.00			
E-D	0.0	-18.5	-18.5 0.14 (1)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 4 X 12 = 47 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL. (LL) = L/360 (0.19")
CALCULATED VERT. DEFL. (LL) = L/999 (0.01")
ALLOWABLE DEFL. (TL) = L/360 (0.19")
CALCULATED VERT. DEFL. (TL) = L/999 (0.03")

CSI: TO=0.15/1.00 (C-F:1), BC=0.14/1.00 (B-E:1), WB=0.00/1.00 (E-F:1), SS=0.13/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

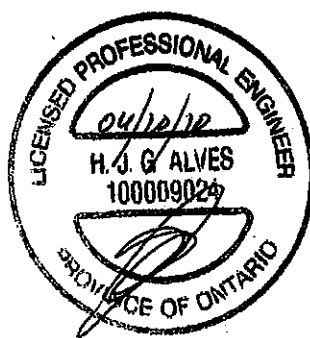
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

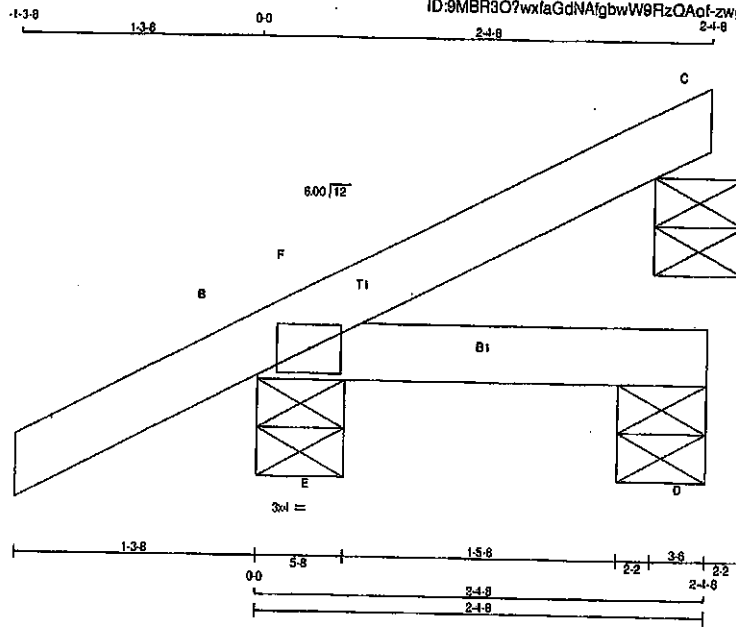
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.22 (B) (INPUT = 0.90)
JSI METAL = 0.05 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006440

JOB NAME 408189	TRUSS NAME J51	QUANTITY 6	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Rd of Truss, Burlington				TRUSS DESC.	



LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER
A - C 2x4 DRY No.2
B - D 2x4 DRY No.2
DRY, SEASONED LUMBER.
GABLE STUDS SPACED AT 2-0-0 O.C.

PLATES (tablets in inches)
JT TYPE PLATES W LEN Y X
B TMB1-4 MT20 3.0 4.0

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER
BEARINGS
THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): C
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)
BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.
LOADING
TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0:28	-91.8 -91.8	0.12 (5)	10.00	E-F	-95 2	0.00 (1)
B-F	-9:0	-91.8 -91.8	0.02 (4)	10.00			
F-C	0:2	-91.8 -91.8	0.06 (1)	10.00			
B-E	0:0	-18.5 -18.5	0.05 (1)	10.00			
E-D	0:0	-18.5 -18.5	0.05 (1)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 6 X 8 = 45 lb (M)

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF
SPACING = 24.0 IN. C/C
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015
THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014
(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD
ALLOWABLE DEFL. (LL) = L/360 (0.19")
CALCULATED VERT. DEFL. (LL) = L/999 (0.00")
ALLOWABLE DEFL. (TL) = L/360 (0.19")
CALCULATED VERT. DEFL. (TL) = L/999 (0.00")
CSI: TC=0.12/1.00 (A-B:5), BC=0.05/1.00 (B-E:1), WB=0.00/1.00 (E-F:1), SSI=0.09/1.00 (A-B:5)
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10
COMPANION LIVE LOAD FACTOR = 1.00
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

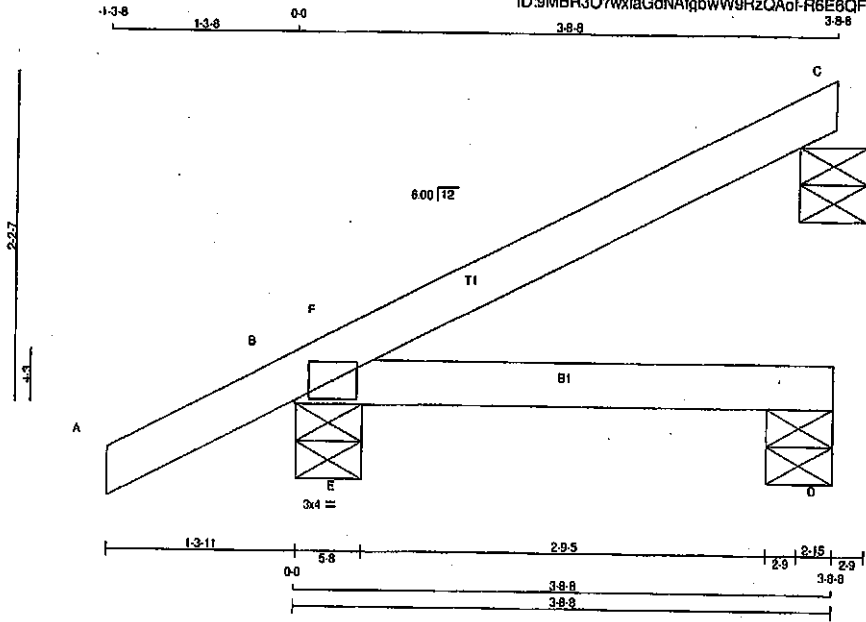
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX M/N
MT20 818 354 1887 788 1987 1656
PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP = 0.20 (B) (INPUT = 0.90)
JSI METAL = 0.04 (B) (INPUT = 1.00)



Structural component only
DWG# T-2008451

JOB NAME 408189	TRUSS NAME J52	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:28:20 2020 Page 1
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Scale = 1:14.2

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REORD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
C	148	0	148	0	5-8 (2-16)	5-8
B	329	0	329	0	5-8	5-8
D	57	0	57	0	5-8	5-8

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

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

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	MAX. MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
C	102	80/0	0/0	0/0	0/0	23/0	0/0
B	230	164/0	0/0	0/0	0/0	66/0	0/0
D	42	15/0	0/0	0/0	0/0	27/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	WEBS MAX. FACTORED FORCE (LBS)	
			VERT. LOAD (LBS)	HORZ. LOAD (LBS)
FR-TO				
A-B	0/28	-81.8 -81.8 0.13 (5)	10.00	E-F -207/5 0.00 (1)
B-F	-18/17	-81.8 -81.8 0.03 (4)	6.25	
F-C	-2/2	-81.8 -81.8 0.16 (1)	10.00	
B-E	0/0	-18.5 -18.5 0.12 (1)	10.00	
E-D	0/0	-18.5 -18.5 0.12 (1)	10.00	

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.19")
 CALCULATED VERT. DEFL.(LL) = L/989 (0.01")
 ALLOWABLE DEFL.(TL) = L/360 (0.19")
 CALCULATED VERT. DEFL.(TL) = L/989 (0.02")

CSI: TC=0.18/1.00 (C-F:1), BC=0.12/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SS=0.17/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

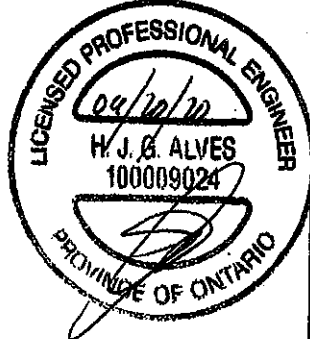
NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618 354 1887 788 1987 1858	

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

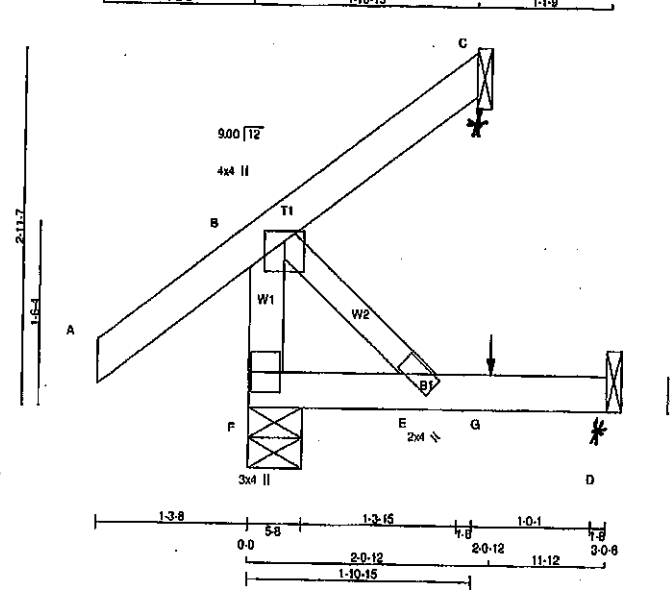
JSI GRIP = 0.28 (B) (INPUT = 0.90)
 JSI METAL = 0.08 (B) (INPUT = 1.00)



Structural component only
 DWG# T-2006452

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408188	C30	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Fri Apr 17 08:26:01 2020 Page 1
 ID:uqqs_6XwrlBIHcUBaEP9inzQC9m-7NLZFjdE9GozdZJ7CP9TF9R2v_ZVIMGL7HJ8zPtqa



Scale = 1:12.6

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

PLATES (table in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	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	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
F	288	0	288	0
C	42	0	42	0
D	28	0	32	0

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

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 180 LBS FACTORED UPLIFT

UNFACTORED REACTIONS	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED							
F	201	145.0	0.0	0.0	0.0	0.0	57.0	0.0
C	29	23.25	0.0	0.0	0.0	0.0	5.0	0.0
D	23	0.0	0.0	0.0	0.0	0.0	23.0	0.0

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

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX	WEBS	MAX. FACTORED	FORCE	MAX
MEMB.	FORCE	VERT.	LOAD	LC1	MAX	MAX	MEMB.	FORCE	MAX	CS1 (LC)
FR-TO	(LBS)	(PLF)	FROM	TO	LENGTH	FR-TO	FR-TO	(LBS)	CS1 (LC)	
F-B	-260.0	0.0	0.0	0.0	0.03 (1)	7.81	B-E	0.0	0.00 (1)	
A-B	0.38	-91.8	-91.8	0.14 (5)	10.00					
B-C	-27.0	-91.8	-91.8	0.13 (5)	6.25					
F-E	0.0	-18.5	-18.5	0.05 (4)	10.00					
E-G	0.0	-18.5	-18.5	0.05 (4)	10.00					
G-D	0.0	-18.5	-18.5	0.05 (4)	10.00					

FACTORED CONCENTRATED LOADS (LBS)	JT	LOC.	LC1	MAX	MAX	FACE	DIR.	TYPE	HEEL	CONN.
G	2-0-12	-0	-0	---	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 11 = 22 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. OC

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

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

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.
 155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CS1: TC=0.14/1.00 (A-B:5), BC=0.05/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS1=0.09/1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

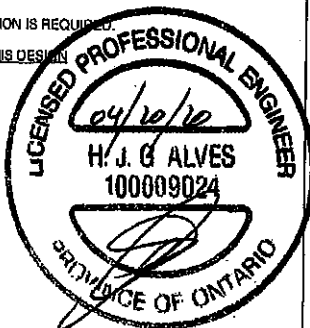
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (8) (INPUT = 0.90)
 JSI METAL= 0.05 (8) (INPUT = 1.00)



Structural component only
 DWG# T-2006432

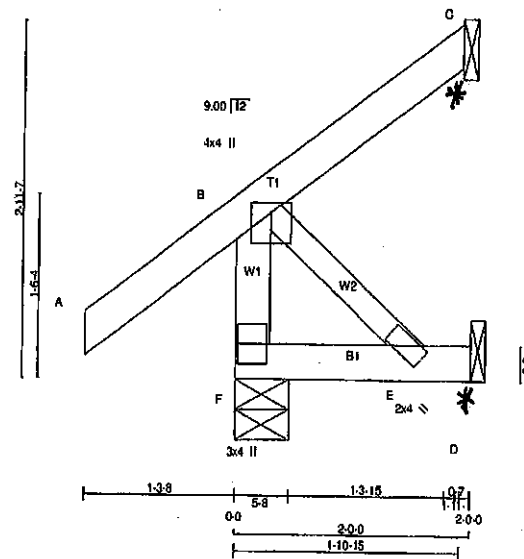
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRAWG NO.
408188	C31	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:26:03 2020 Page 1
ID:uqqs_6XwrlBHCUBaEP9inzQC9m-yISkgPjtmWkHjh7dSdYgFomilUzcCfkcON1zPtqY

1-3.8 1-3.8 0-0 1-10-15 1-10-15 2-0-0

Scale = 1:17.6



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

DESCR.	
SPF	
SPF	
SPF	

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ UPLIFT		
F	278	0	278	0	5-8	5-8
C	42	0	42	0	1-8	1-8
D	19	0	21	0	1-8	1-8

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

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS

JT	COMBINED	MAX/MIN COMPONENT REACTIONS				
		SNOW	LIVE	PERM.LIVE	WIND	DEAD
F	194	145.0	0.0	0.0	0.0	49.0
C	29	23.0	0.0	0.0	0.0	5.0
D	15	0.0	0.0	0.0	0.0	15.0

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. UNSHEATHED 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)

FR-TO	CHORDS		FACTORED		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)
F-B	-260.0	0.0	0.0	0.03 (1)	7.81	0.0
A-B	0.38	-91.8	-91.8	0.12 (1)	10.00	0.0
B-C	-27.0	-91.8	-91.8	0.12 (1)	8.25	0.0
F-E	0.0	-18.5	-18.5	0.02 (4)	10.00	0.0
E-D	0.0	-18.5	-18.5	0.02 (4)	10.00	0.0

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 10 = 29 b

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

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

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

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.02/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SS=0.09/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

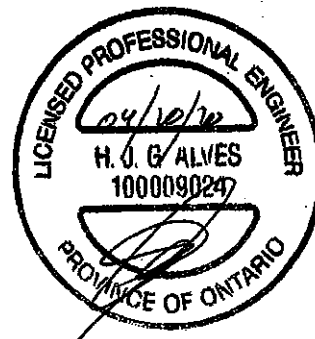
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PS) (PL) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1667 788 1987 1668

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)

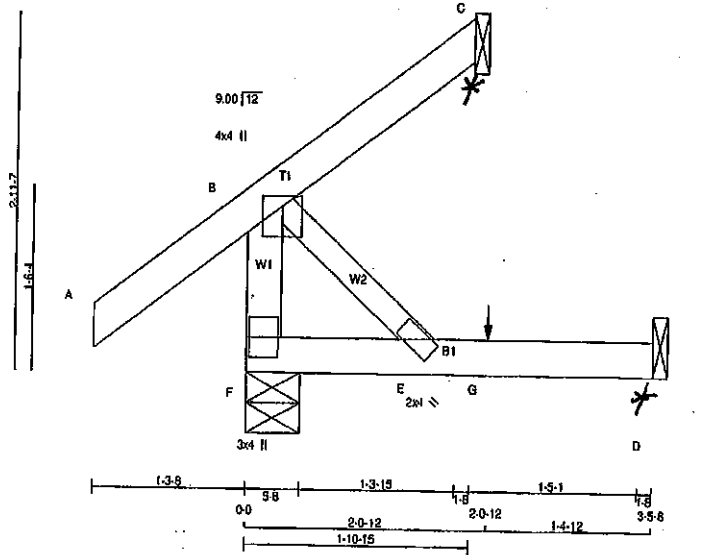


Structural component only
DWG# T-2006433

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408188	C32	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:26:04 2020 Page 1
 ID:uqqs_6XwrlBIHcUBaEP9lnzQC8m-Qy0tlkVX4sBURHuhKzs5unyE6_2i3SoyJmXwTzPlqX
 1-3.8 1-3.8 0-0 1-10-15 1-10-15 1-6.9 3-5.8

Scale = 1:17.6



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

PLATES (tablets in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMW+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		

DESCR
SPF
SPF
SPF

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
F	292	0	292	0
C	42	0	42	0
D	32	0	32	0

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

PROVIDE ANCHORAGE AT BEARING JOINT G FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	205	145.0	0.0	0.0	0.0	60.0	0.0
C	29	23.25	0.0	0.0	0.0	5.0	0.0
D	28	0.0	0.0	0.0	0.0	28.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS	MAX. FACTORED	FACTORED	VERT.	LC1	MAX	MAX.	MEMB.	MAX. FACTORED	WEBS	MAX.	FACTORED	VERT.	LC1	MAX	MAX.	MEMB.	MAX. FACTORED
MEMB.	FORCE (LBS)	FORCE (LBS)	FORCE (LBS)	FORCE (LBS)	FORCE (LBS)	FORCE (LBS)	FORCE (LBS)	FORCE (LBS)	FORCE (LBS)	FORCE (LBS)	FORCE (LBS)	FORCE (LBS)	FORCE (LBS)	FORCE (LBS)	FORCE (LBS)	FORCE (LBS)	FORCE (LBS)
FR-TO																	
F-B	-280 / 0	0.0	0.0	0.03 (1)	7.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A-B	0 / 38	-91.8	-91.8	0.14 (5)	10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B-C	-27 / 0	-91.8	-91.8	0.13 (5)	8.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F-E	0 / 0	-18.5	-18.5	0.06 (4)	10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E-G	0 / 0	-18.5	-18.5	0.06 (4)	10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G-D	0 / 0	-18.5	-18.5	0.06 (4)	10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX	MAX+	FACE	DIR.	TYPE	HEEL	CONV.
G	2-0-12	1	1	1	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL. (LL) = L/360 (0.19")
 CALCULATED VERT. DEFL. (LL) = 1/999 (0.00")
 ALLOWABLE DEFL. (TL) = L/360 (0.19")
 CALCULATED VERT. DEFL. (TL) = 1/999 (0.01")

CSI: TC=0.14/1.00 (A-B-5), BC=0.08/1.00 (D-E-4),
 WB=0.00/1.00 (B-E-1), SS=0.09/1.00 (A-B-5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

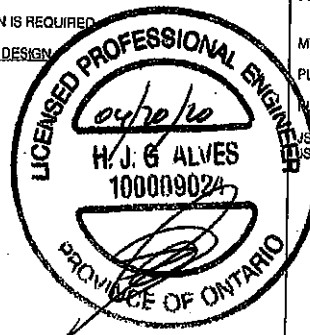
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

GRIP= 0.21 (B) (INPUT = 0.90)
 METAL= 0.05 (B) (INPUT = 1.00)



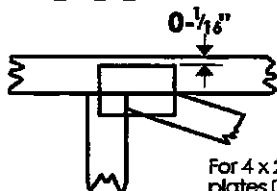
Structural component only
 DWG# T-2006434

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths or mm. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0-1/8" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

*Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T, I or Eliminator bracing if indicated.

BEARING

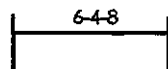


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

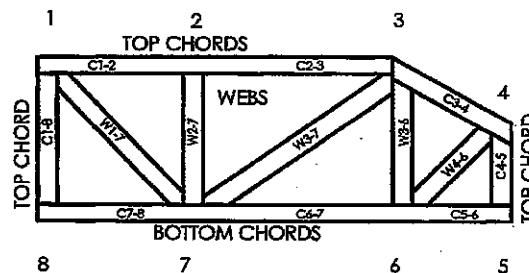
Industry Standards:

TPIC: Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



dimensions shown in ft-in-sixteenths or mm (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

CCMC Reports:

11996-L, 10319-L, 13270-L, 12691-R

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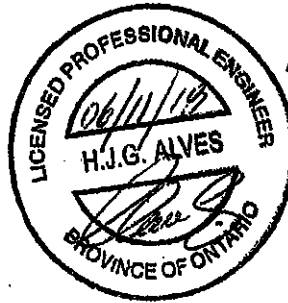
MiTek
POWER TO PERFORM.™

MiTek Engineering Reference Sheet: ME-7473C rev. 10-08

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stock materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by TPIC.
7. Design assumes trusses will be suitably protected from the environment in accord with TPIC.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with TPIC Quality Criteria.



Alves Engineering Services Inc.

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

RESPONSABILITIES

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

SPECIFICATIONS

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

T-1800213

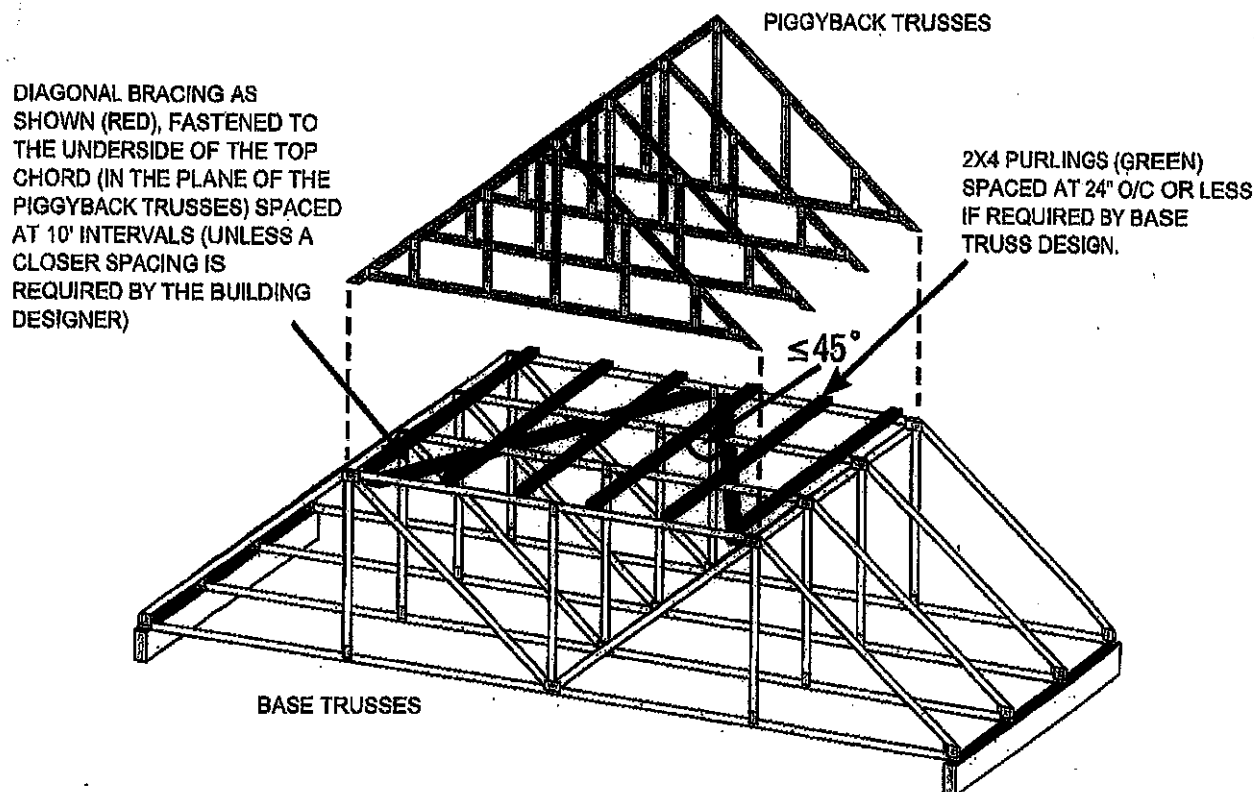
Feb 09, 2018

Overview:

Where piggybacks are connected overtop of base trusses, 2x4 purlins must be first added to the flat portion of the base truss at a spacing no more than 24" o/c. These purlins not only provide support for the piggyback trusses above, but are required to laterally support the top chord of the base truss which will not have the sheathing directly connected to the flat portion of the base truss. This ensures the top chord, most often in compression, will not buckle laterally.

Further, the purlins in the plane of the flat portion require diagonal bracing to prevent lateral displacement of the purlins themselves where under certain conditions, the trusses may in fact all buckle in the same direction if this additional bracing is not added in the plane of the purlins.

Detail:



NOTE: THE SLOPED PORTION OF THE TOP CHORD OF THE BASE TRUSS AND PIGGYBACK TRUSS IN THIS SKETCH IS ASSUMED TO BE SHEATHED IN ACCORDANCE WITH THE OBC.

SKETCH FROM BCSI-CANADA 2013

Disclaimer:

OWTFA Tech Notes are intended to provide guidance to the design community both within the membership as well as to third party designers who might benefit from the information. The details have been developed by the OWTFA technical committee and although there may be professional engineers involved in development, the information contained in the tech-note are not intended to be used without having a professional engineer review the information for a specific application. The OWTFA takes no responsibility with respect to the information provided but has developed this tech-note to offer guidance where it is not currently readily available.

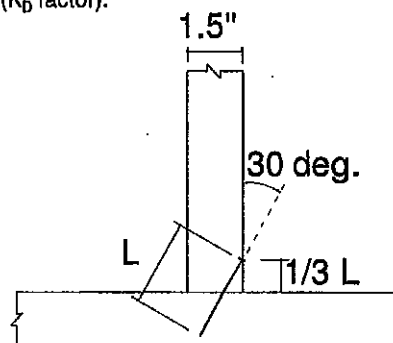
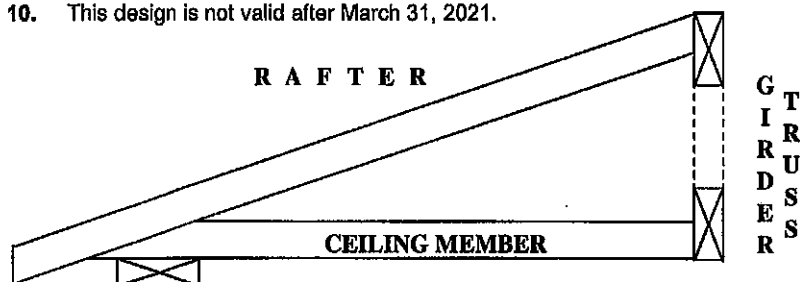
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B97791H1

NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL LATERAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	132	147
	3.25	0.144	132	147
	3.50	0.160	159	177
COMMON SPIRAL	3.00	0.122	97	108
	3.25	0.122	97	108
	3.50	0.152	145	162

NOTES:

1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
2. Toe nail capacities shown in the table are for one toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.4.1.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in tables below.
5. Nail values in table are based on the following relative lumber densities: G = 0.42 (SPF), G = 0.49 (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See next page for nailing on bearing plate).
7. For loads due to wind the nail lateral capacity in this table may be multiplied by 1.15 (K_D factor).
8. Lumber must be dry (< 19% moisture content) at the time of nail installation.
9. Nail values in this table comply with CSA O86-14, section 12.9.4
10. This design is not valid after March 31, 2021.



TOE-NAIL INSTALLATION

Nail type	Common wire	Common spiral	Common wire	Common spiral
Nail dia. (in)	0.160	0.152	0.144	0.122
	(3.5" nail)		(3" and 3.25" nail)	
LUMBER SIZE	MAXIMUM NUMBER OF TOE-NAILS			
2X4 SPF	2	2	3	3
2X4 D. Fir	2	2	2	2
2X6 SPF	4	4	4	5
2X6 D. Fir	3	3	3	4

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

December 2, 2019

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

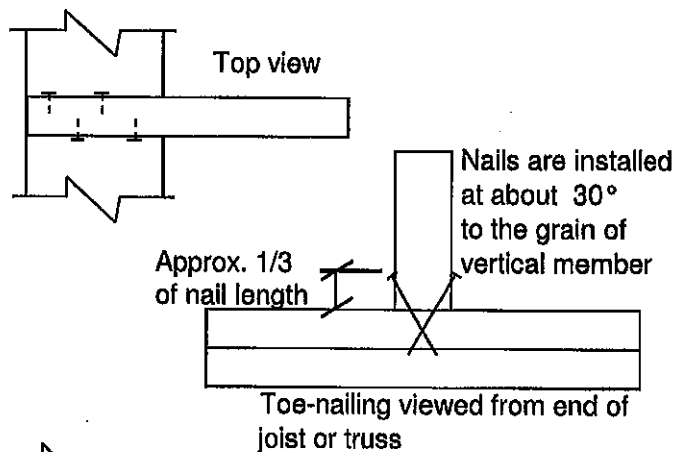
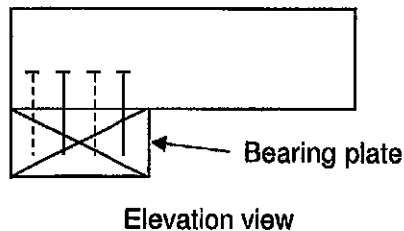
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52
COMMON SPIRAL	3.00	0.122	26	36
	3.25	0.122	28	40
	3.50	0.152	36	50

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

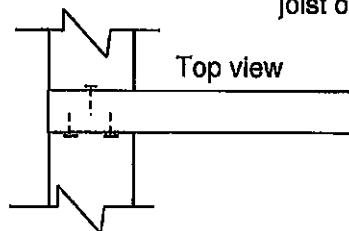
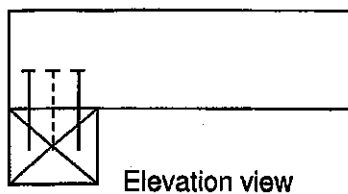
NOTES:

1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to **wind** or **earthquake** load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher than the maximum toe-nail withdrawal capacity.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.5.2.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in table above.
5. Nail values in table are based on the following relative lumber densities: $G = 0.42$ (SPF), $G = 0.49$ (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See drawing on detail B37579H1).
7. Lumber must be dry (< 19% moisture content) at the time of nail installation.
8. Nail values in this table comply with CSA O86-14, section 12.9.5
9. This design is not valid after March 31, 2021.

Toe-nailing on 2x6 Bearing Plate



Toe-nailing on 2x4 Bearing Plate



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

December 2, 2019

LUL/LUS/LJS/HUS/HHUS/HGUS

Standard and Double-Shear Joist Hangers



This product is preferable to similar connectors because of a) easier installation, b) higher capacities, c) lower installed cost, or a combination of these features.

Most hangers in this series have double-shear nailing — an innovation that distributes the load through two points on each joist nail for greater strength. This allows for fewer nails, faster installation, and the use of all common nails for the same connection. (Do not bend or remove tabs)

Double-shear hangers range from the light capacity LUS hangers to the highest capacity HGUS hangers. For medium load truss applications, the HUS offers a lower cost alternative and easier installation than the HGUS hangers, while providing greater load capacity and bearing than the LUS.

Material: See table on pp. 258–259.

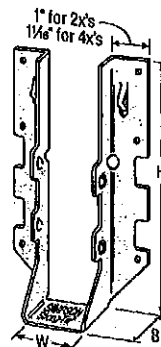
Finish: Galvanized. Some products available in stainless steel or ZMAX® coating; see Corrosion Information, pp. 20–24.

Installation:

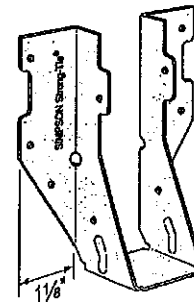
- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for welded or nailer applications.
- With single ply 2x carrying members, use 10d x 1½" nails into the header and 10d commons into the joist, and reduce the resistance to 0.64 of the table value where 16d nails are specified and 0.77 where 10d nails are specified.

Options:

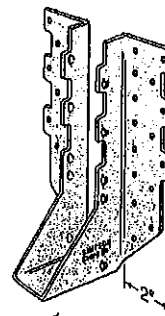
- LUS, LJS, LUL and HUS hangers cannot be modified.
- Other sizes available; consult your Simpson Strong-Tie representative.
- See Hanger Options information on p. 126.



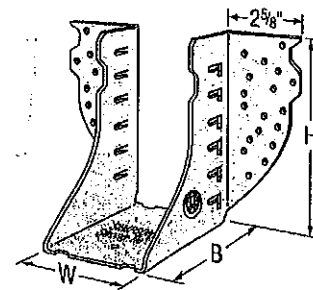
✓ LUS28



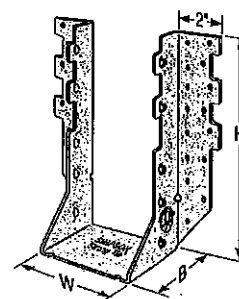
LU26L



✓ HUS210
(HUS26, HUS28,
and HHUS similar)



✓ HGUS28-2



✓ HHUS210-2



Double-Shear
Nailing
Top View

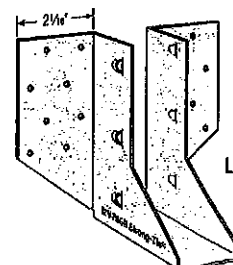
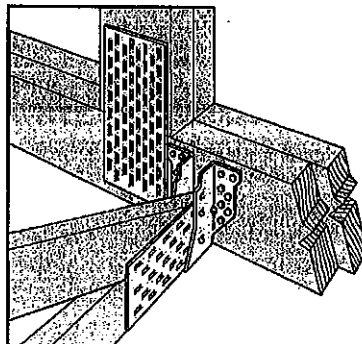


Double-Shear
Nailing
Side View;
Do not
bend tab



Dome Double-Shear
Nailing Side View
(available on
some models)
U.S. Patent 5,603,580

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



LJS26DS

LUL/LUS/LJS/HUS/HHUS/HGUS

HHUS/HGUS

See Hanger Options information on pp. 125–127.

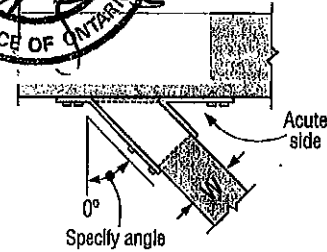
HHUS — Sloped and/or Skewed Seat

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

HGUS — Skewed Seat

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

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



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

Standard and Double-Shear Joist Hangers (cont.)

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

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

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance				
		W	H	B	d _a ³	Header	Joist	D-Fir-L		S-P-F		
								Uplift	Normal	Uplift	Normal	
								(K _D = 1.15) lb. kN	(K _D = 1.00) lb. kN	(K _D = 1.15) lb. kN	(K _D = 1.00) lb. kN	
Single 2x Sizes												
■	LUS24	18	1 1/8	3 1/2	1 1/4	2 1/4	(4) 10d	(2) 10d	710 3.16	1625 7.23	645 2.87	1155 5.14
	LU24L	22	1 1/8	3	1 1/8	2 1/8	(4) 10d	(2) 10d x 1 1/2"	360 1.60	1020 4.54	320 1.42	725 3.22
■	LU26L	22	1 1/8	5	1 1/8	4 1/2	(6) 10d	(4) 10d x 1 1/2"	720 3.20	1605 7.14	645 2.87	1140 5.07
	LUS26	18	1 1/8	4 3/4	1 1/4	3 3/4	(4) 10d	(4) 10d	1420 6.32	2170 9.65	1290 5.74	1630 7.25
SS	HUS26	16	1 1/8	5 1/2	3	3 1/8	(14) 16d	(6) 16d	2705 11.30	4940 21.97	2065 9.20	3675 17.24
	LJS26DS	18	1 1/8	5	3 1/2	4 1/2	(16) 16d	(6) 16d	2055 9.14	4265 18.97	1460 6.48	4115 18.31
■	HGUS26	12	1 1/8	5 1/2	5	4 1/2	(20) 16d	(8) 16d	2885 11.96	6625 29.51	2685 11.96	5700 25.35
	LU28L	20	1 1/8	6 3/4	1 1/8	5 1/2	(8) 10d	(6) 10d x 1 1/2"	1140 5.07	2185 9.72	1020 4.54	1550 6.89
SS	LUS28	18	1 1/8	6 1/2	1 1/4	3 3/4	(6) 10d	(4) 10d	1420 6.32	2520 11.21	1290 5.74	1790 7.96
	HUS28	16	1 1/8	7 1/8	3	6 1/8	(22) 16d	(8) 16d	3805 16.04	5365 23.86	2675 11.90	4345 19.33
■	HGUS28	12	1 1/8	7 1/2	5	6 1/2	(36) 16d	(12) 16d	3310 14.74	7675 34.19	3310 14.74	6900 30.73
	LU210L	20	1 1/8	8	1 1/8	7 1/2	(10) 10d	(6) 10d x 1 1/2"	1140 5.07	2495 11.10	1020 4.54	1770 7.87
SS	LUS210	18	1 1/8	7 1/8	1 1/4	3 3/4	(8) 10d	(4) 10d	1420 6.32	2785 12.39	1290 5.74	2210 9.83

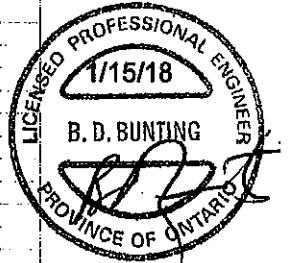
1. Factored uplift resistances have been increased 15% for wind or earthquake loading; no further increase is allowed.
2. Designer must ensure that hanger is compatible with truss when reduced heel height is used.
3. d_a is the distance from the bearing seat to the top joist nail.
4. Resistances shown require a minimum 2-ply girder truss. For fastening to single-ply truss request technical bulletin T-C-N10TRSSCN and/or see installation notes.
5. Nails: 16d = 0.162" dia. x 3 1/2" long. See pp. 27–28 for other nail sizes and information.

Face-Mount Hangers

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

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

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance			
		W	H	B	d _g ^a	Header	Joist	D.Fir-L		S-P-F	
								Uplift	Normal	Uplift	Normal
								(K _D = 1.15)	(K _D = 1.00)	(K _D = 1.15)	(K _D = 1.00)
								lb.	lb.	lb.	lb.
								kN	kN	kN	kN
Double 2x Sizes											
LUS24-2	18	3 1/8	3 1/8	2	1 1/2	(4) 16d	(2) 16d	836	2020	590	1435
SS LUS26-2	18	3 1/8	4 7/8	2	4	(4) 16d	(4) 16d	3.71	8.99	2.62	6.38
HHUS26-2	14	3 1/8	5 1/8	3	3 1/8	(14) 16d	(6) 16d	1720	2595	1545	1920
HGUS26-2	12	3 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	7.65	11.54	6.87	8.54
SS LUS28-2	18	3 1/8	7	2	4	(6) 16d	(4) 16d	2850	7335	2065	5205
HHUS28-2	14	3 1/8	7 1/8	3	6 1/8	(22) 16d	(8) 16d	12.68	32.63	9.20	23.15
HGUS28-2	12	3 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	4385	8950	3110	6355
SS LUS210-2	18	3 1/8	9	2	6	(8) 16d	(6) 16d	19.51	39.81	13.83	28.27
HHUS210-2	14	3 1/8	9 1/8	3	8	(30) 16d	(10) 16d	7.65	14.79	6.87	11.45
HGUS210-2	12	3 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	3785	8940	2675	6345
								16.75	39.77	11.90	28.22
								6070	12980	4310	9215
								27.00	57.74	19.17	40.99
SS LUS210-2	18	3 1/8	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
HHUS210-2	14	3 1/8	9 1/8	3	8	(30) 16d	(10) 16d	11.48	20.02	10.32	14.21
HGUS210-2	12	3 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	4670	9660	4235	7000
								20.77	42.97	18.84	31.14
								6840	14015	4855	10270
								30.43	62.34	21.60	45.89
Triple 2x Sizes											
HGUS26-3	12	4 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355
HGUS28-3	12	4 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	19.51	39.81	13.83	28.27
HHUS210-3	14	4 1/8	9	3	7 1/8	(30) 16d	(10) 16d	6070	12980	4310	9215
HGUS210-3	12	4 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	27.00	57.74	19.17	40.99
								4670	9670	4235	6865
								20.77	43.02	18.84	30.54
								6840	14645	4855	10400
								30.43	65.14	21.60	46.26
Quadruple 2x Sizes											
HGUS26-4	12	6 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355
HGUS28-4	12	6 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	19.51	39.81	13.83	28.27
HHUS210-4	14	6 1/8	8 1/8	3	7 1/8	(30) 16d	(10) 16d	6070	12980	4310	9215
HGUS210-4	12	6 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	27.00	57.74	19.17	40.99
								4670	10155	4235	7210
								20.77	45.17	18.84	32.07
								6840	14645	4855	10400
								30.43	65.14	21.60	46.26
HGUS212-4	12	6 1/8	10 1/8	4	10 1/8	(56) 16d	(20) 16d	7640	14995	5425	10645
HGUS214-4	12	6 1/8	12 1/8	4	11 1/8	(66) 16d	(22) 16d	33.98	66.70	24.13	47.35
								10130	16400	7195	11645
								45.06	72.95	32.00	51.80
4x Sizes											
LUS46	18	3 1/8	4 3/8	2	3 3/8	(4) 16d	(4) 16d	1720	2595	1545	1920
HHUS46	14	3 1/8	5 1/8	3	3 1/8	(14) 16d	(6) 16d	7.65	11.54	6.87	8.54
HGUS46	12	3 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	2540	7335	2065	5205
LUS48	18	3 1/8	6 3/8	2	3 3/8	(6) 16d	(4) 16d	11.30	32.63	9.20	23.15
HHUS48	14	3 1/8	7 1/8	3	6 1/8	(22) 16d	(8) 16d	4385	8950	3110	6355
HGUS48	12	3 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	19.51	39.81	13.83	28.27
LUS410	18	3 1/8	8 3/8	2	5 3/8	(8) 16d	(6) 16d	1720	3325	1545	2575
HHUS410	14	3 1/8	9 1/8	3	8 1/8	(30) 16d	(10) 16d	7.65	14.79	6.87	11.45
HGUS410	12	3 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	3785	8940	2675	6345
								16.75	39.77	11.90	28.22
								6070	12980	4310	9215
								27.00	57.74	19.17	40.99
LUS412	12	3 1/8	10 1/8	4	10 1/8	(56) 16d	(20) 16d	2580	4500	2320	3195
HGUS412	12	3 1/8	10 1/8	4	10 1/8	(56) 16d	(20) 16d	11.48	20.02	10.32	14.21
HGUS414	12	3 1/8	12 1/8	4	11 1/8	(66) 16d	(22) 16d	6840	14015	4855	10270
								30.43	62.34	21.60	45.89
								7640	14995	5425	10645
								33.98	66.70	24.13	47.35
								10130	16400	7195	11645
								45.06	72.95	32.00	51.80



Plated Truss Connectors

See footnotes on p. 268.