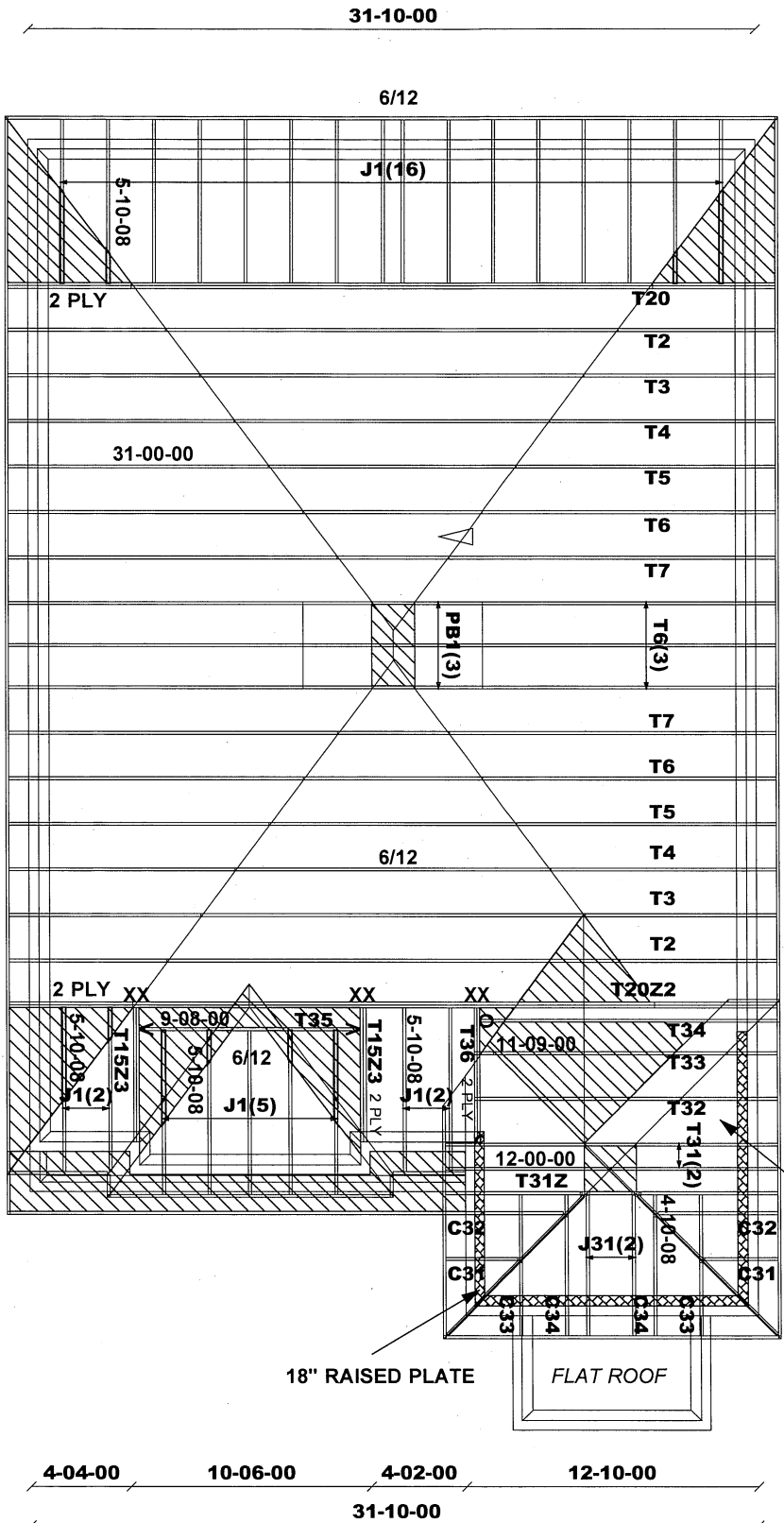


51-07-00

5-00-00

18" RAISED CEILING

ALL ROOF PITCHES ARE 8/12
UNLESS OTHERWISE NOTED



ASPHALT SHINGLES
12" FINISHED OH.
R.T.M.C.
2X6 EXTERIOR WALLS
2X6 FASCIA BOARD

HARDWARE:
LUS24 - (O)
LUS26DS - (V)
HGUS26-2 - (XX)

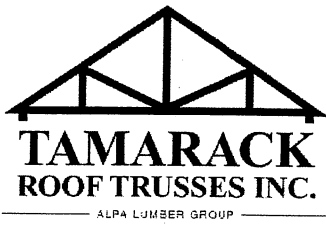
DENOTES
CONV.
FRAMING

DESIGN CONFORMS WITH
OBC 2012
(2019 AMENDMENT)
OCCUPANCY: RESIDENTIAL
PART: 9
Ss = 31.3 psf Sr = 8.4 psf
DESIGN LOADS:
TCSL = 25.6 psf
TCDL = 6.0 psf
BCLL = 0.0 psf
BCDL = 7.4 psf

ALL CONV. FRAMING TO CONFORM WITH PART 9 OF O.B.C.2012
(2019 AMENDMENT) ROOF RAFTERS THAT CROSS MEET OVER
TRUSSES TO BE 2X4 SPF @ 24"O.C. WITH A 2X4 VERT. POST
TO THE TRUSS UNDER NEATH AT EACH CROSS PT. VERT. POST
LONGER THAN 6' TO HAVE LATERAL BRACING SO THAT THE
DISTANCE BETWEEN END PT. & BETWEEN ROWS OF BRACING
DOES NOT EXCEED 6'

M13466

		Job Track: 51012		Builder / Location: ROYAL PINE HOMES / RICHMOND HILL		Model / Elevation: 38-11 / C	
Plan Log: 201982		Project: CENTREFIELD		THESE DRAWINGS CONSTITUTE THE PROPERTY OF TAMARACK ROOF TRUSSES INC. SHALL NOT BE REPRODUCED, PUBLISHED, OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.			
Layout ID: 413426		Date: 2021-06-04		Sales: Mario DiCaro		Designer: LC	
Mitek ver 6.4.2.266							



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: 38-11
 Lot #:
 Elevation: A

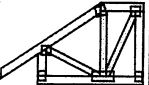
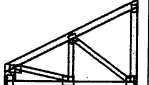
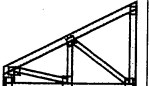
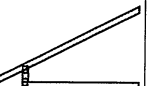
Job Track: 51012
 PlanLog: 201982
 Layout ID: 406513
 Ref #
 Page: 1 of 2
 Date: 10-14-2020
 Designer: Leo Chen
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T1 Hip Girder	8 /12	31-00-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	294.04 181.33		
	1 2-ply	T1Z Hip Girder	8 /12	31-00-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	294.04 181.33		
	2	T2 Hip	8 /12	31-00-00	5-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	255.62 161.00		
	2	T3 Hip	8 /12	31-00-00	6-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	269.73 168.67		
	2	T4 Hip	8 /12	31-00-00	7-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	267.35 169.67		
	2	T5 Hip	8 /12	31-00-00	8-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	279.9 175.33		
	5	T6 Hip	8 /12	31-00-00	9-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	699.7 436.67		
	2	T7 Hip	8 /12	31-00-00	10-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	285.16 178.67		
	1	T8 Hip Girder	8 /12	12-00-00	3-10-10	2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	69.24 43.00		
	3	T10 Common	8 /12	12-00-00	5-04-13	2 x 4	1-03-08	1-04-13 1-04-13	142.96 87.50		
	1	T10CP Hip	8 /12	12-00-00	5-02-08	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	49.18 29.83		
	1	T11 Hip Girder	8 /12	13-08-00	3-10-10	2 x 6	1-03-08	1-04-13 1-04-13	73.59 45.50		
	1	T12 Hip	8 /12	13-08-00	5-02-08	2 x 4	1-03-08	1-04-13 1-04-13	58.72 37.50		
	2 2-ply	T13 Half Hip	8 /12	3-08-08	2-03-13	2 x 4	1-03-08	1-04-13 2-03-13	73.9 51.33		

 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	DELIVERY SHIPLIST	
	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: 38-11 Lot #: Elevation: A	Job Track: 51012 PlanLog: 201982 Layout ID: 406513 Ref # Page: 2 of 2 Date: 10-14-2020 Designer: Leo Chen 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
	2 2-ply	T14 Half Hip	8 /12	3-08-08	2-10-08	2 x 4	1-03-08	1-04-13 2-10-08	81.2 58.00		
	1 2-ply	T15 Monopitch Girder	6 /12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	58.39 37.67		
	1 2-ply	T15Z Monopitch Girder	6 /12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	58.39 37.67		
	3	PB1 Piggyback	8 /12	7-10-11	2-00-00	2 x 4			64.14 43.00		
	18	J1 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	302.3 192.00		
	4	J2 Jack-Open	8 /12	3-08-08	3-10-08	2 x 4	1-03-08	1-04-13 3-10-08	55 36.00		

TOTAL # TRUSS= 63

TOTAL BFT OF ALL TRUSSES= 2351.67

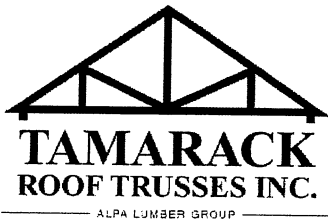
BFT.

TOTAL WEIGHT OF ALL TRSSES 3732.54 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
2	Hardware	HGUS26-2	
2	Hardware	LJS26DS	
3	Hardware	LUS24	
4	Hardware	LUS26-2	

TOTAL NUMBER OF ITEMS= 11



DELIVERY SHIPLIST

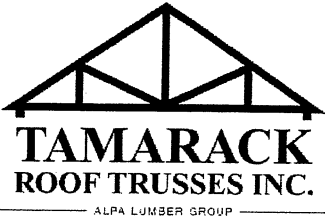
Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: 38-11
 Lot #:
 Elevation: B

Job Track: 51012
 PlanLog: 201982
 Layout ID: 406514
 Ref #
 Page: 1 of 2
 Date: 10-14-2020
 Designer: Leo Chen
 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
	2	T2 Hip	8 / 12	31-00-00	5-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	255.62 161.00		
	2	T3 Hip	8 / 12	31-00-00	6-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	269.73 168.67		
	2	T4 Hip	8 / 12	31-00-00	7-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	267.35 169.67		
	2	T5 Hip	8 / 12	31-00-00	8-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	279.9 175.33		
	5	T6 Hip	8 / 12	31-00-00	9-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	699.7 436.67		
	2	T7 Hip	8 / 12	31-00-00	10-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	285.16 178.67		
	2	T10 Common	8 / 12	12-00-00	5-04-13	2 x 4	1-03-08	1-04-13 1-04-13	95.3 58.33		
	1 2-ply	T15 Monopitch Girder	6 / 12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	58.39 37.67		
	2 2-ply	T15Z2 Monopitch Girder	6 / 12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	116.79 75.33		
	1 2-ply	T20 Hip Girder	8 / 12	31-00-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	302.41 191.33		
	1 2-ply	T20Z Hip Girder	8 / 12	31-00-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	302.41 191.33		
	1	T21 Hip Girder	8 / 12	12-00-00	4-01-04	2 x 4	1-03-08	1-04-13 1-04-13	51.14 33.83		
	1	T22 Hip	8 / 12	12-00-00	5-01-04	2 x 4	1-03-08	1-04-13 1-04-13	54.15 34.50		
	1	T23 Hip Girder	8 / 12	10-03-00	5-07-04	2 x 4 2 x 6		2-10-13 2-10-13	60.1 41.00		

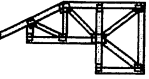
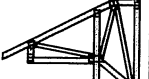
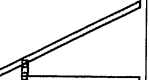
DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: 38-11
 Lot #:
 Elevation: B

Job Track: 51012
 PlanLog: 201982
 Layout ID: 406514
 Ref #
 Page: 2 of 2
 Date: 10-14-2020
 Designer: Leo Chen
 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
	2	T24 Half Hip	6 /12	5-10-08	3-06-13	2 x 4	1-03-08	1-02-00 3-06-13	63.8 44.67		
	2	T25 Half Hip	6 /12	5-10-08	4-10-13	2 x 4	1-03-08	1-02-00 4-10-13	74.51 50.67		
	2	T26 Monopitch	6 /12	5-10-08	5-07-04	2 x 4	1-03-08	1-02-00 5-07-04	70.83 46.67		
	3	PB1 Piggyback	8 /12	7-10-11	2-00-00	2 x 4			64.14 43.00		
	26	J1 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	436.66 277.33		

TOTAL # TRUSS= 65

TOTAL BFT OF ALL TRUSSES= 2415.67

BFT.

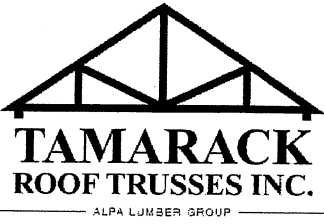
TOTAL WEIGHT OF ALL TRSSES 3808.09 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
3	Hardware	HGUS26-2	
2	Hardware	LJS26DS	
9	Hardware	LUS24	

TOTAL NUMBER OF ITEMS= 14

DELIVERY SHIPLIST

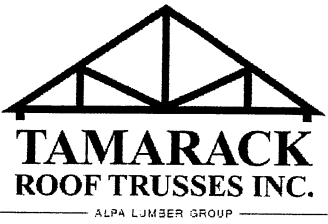


Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: 38-11
 Lot #:
 Elevation: C

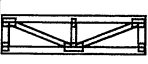
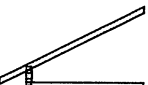
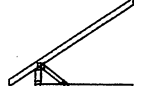
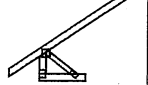
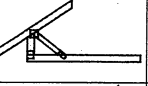
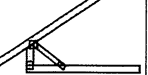
Job Track: 51012
 PlanLog: 201982
 Layout ID: 413426
 Ref #
 Page: 1 of 2
 Date: 10-14-2020
 Designer: Leo Chen
 Sales Rep: Mario DiCano

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
	2	T2 Hip	8 /12	31-00-00	5-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	255.62 161.00		
	2	T3 Hip	8 /12	31-00-00	6-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	269.73 168.67		
	2	T4 Hip	8 /12	31-00-00	7-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	267.35 169.67		
	2	T5 Hip	8 /12	31-00-00	8-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	279.9 175.33		
	5	T6 Hip	8 /12	31-00-00	9-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	699.7 436.67		
	2	T7 Hip	8 /12	31-00-00	10-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	285.16 178.67		
	2 2-ply	T15Z3 Monopitch Girder	6 /12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	116.79 75.33		
	1 2-ply	T20 Hip Girder	8 /12	31-00-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	302.41 191.33		
	1 2-ply	T20Z2 Hip Girder	8 /12	31-00-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	302.41 191.33		
	2	T31 Hip	8 /12	12-00-00	4-07-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	107.31 69.00		
	1	T31Z Hip Girder	8 /12	12-00-00	4-07-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	53.65 34.50		
	1	T32 Hip	8 /12	12-00-00	3-03-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	49.04 31.50		
	1	T33 Hip	8 /12	12-00-00	1-11-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	45.92 29.67		
	1	T34 Common	8 /12	11-09-00	6-02-05	2 x 4	1-03-08	1-04-13 3-01-13	52.02 32.50		

 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST	
	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: 38-11 Lot #: Elevation: C	Job Track: 51012 PlanLog: 201982 Layout ID: 413426 Ref # Page: 2 of 2 Date: 10-14-2020 Designer: Leo Chen 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	T35 Hip Girder	8 /12	9-08-00	4-01-04	2 x 4		1-04-13 1-04-13	43.03 30.00		
	1 2-ply	T36 Monopitch Girder	0 /12	5-10-08	1-07-00	2 x 4		1-07-00 1-07-00	41.89 25.67		
	3	PB1 Piggyback	8 /12	7-10-11	2-00-00	2 x 4			64.14 43.00		
	25	J1 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	419.86 266.67		
	2	J31 Jack-Open	8 /12	4-10-08	4-07-13	2 x 4	1-03-08	1-04-13 4-07-13	33.36 20.67		
	2	C31 Jack-Open	8 /12	1-10-15	2-08-02	2 x 4	1-03-08 1-01	1-04-13 2-08-02	18.68 12.67		
	2	C32 Jack-Open	8 /12	2-00-00	4-00-02	2 x 4	1-03-08 1-10-15	1-04-13 2-08-13	24.16 15.33		
	2	C33 Jack-Open	8 /12	1-10-15	2-08-02	2 x 4	1-03-08 2-11-09	1-04-13 2-08-02	25.24 16.67		
	2	C34 Jack-Open	8 /12	3-10-15	4-00-02	2 x 4	1-03-08 11-09	1-04-13 4-00-02	30.72 19.33		

TOTAL # TRUSS= 70

TOTAL BFT OF ALL TRUSSES= 2395.18

BFT.

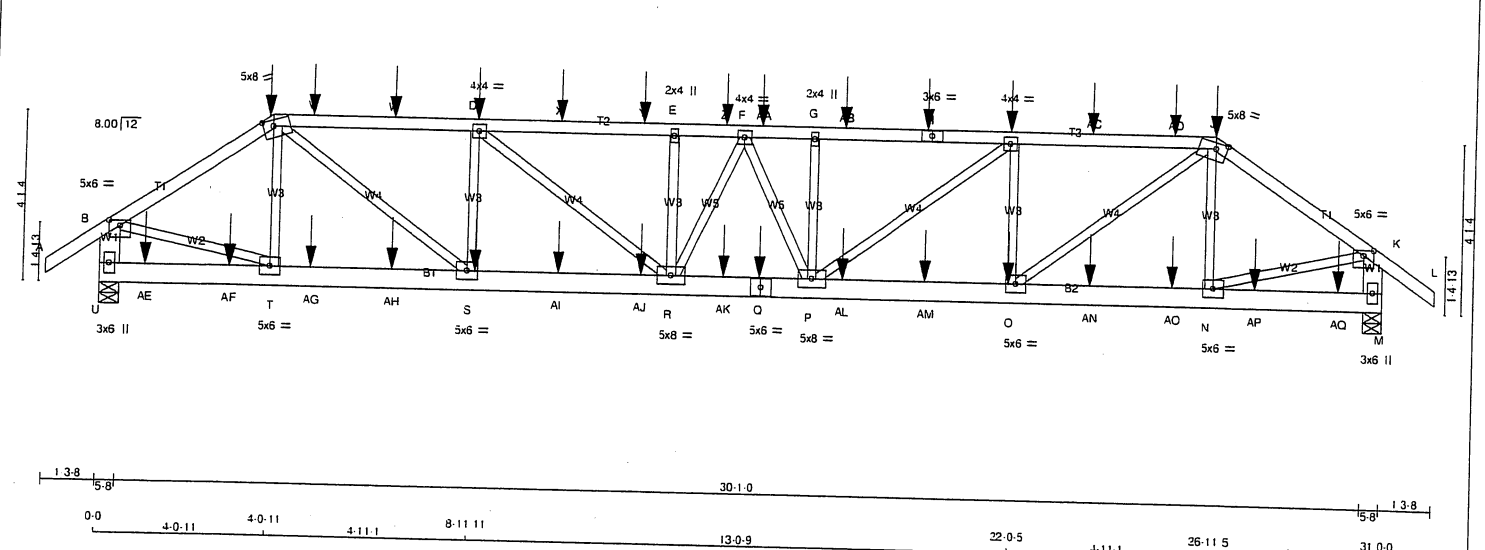
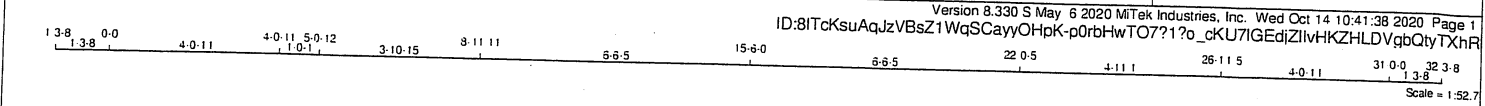
TOTAL WEIGHT OF ALL TRSSES 3788.08 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
3	Hardware	HGUS26-2	
2	Hardware	LJS26DS	
1	Hardware	LUS24	

TOTAL NUMBER OF ITEMS= 6

JOB NAME 406513	TRUSS NAME T1	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER DESCR. SPF
A - C 2x4 DRY No.2
C - H 2x4 DRY No.2
H - J 2x4 DRY No.2
J - L 2x4 DRY No.2
U - B 2x6 DRY No.2
M - K 2x6 DRY No.2
Q - M 2x6 DRY No.2
ALL WEBS 2x3 DRY No.2
EXCEPT
DRY: SEASONED LUMBER.

LOADS		SIZE	LUMBER	DESCR.	BEARINGS		DESIGN CRITERIA		[M]	
-	C	2x4	DRY	No.2	SPF	FACTORED	MAXIMUM FACTORED	INPUT	REQRD	
-	H	2x4	DRY	No.2	SPF	GROSS REACTION	GROSS REACTION	BRG	BRG	
-	J	2x4	DRY	No.2	SPF	DOWN	DOWN	HORZ	UPLIFT	
-	L	2x4	DRY	No.2	SPF	VERT	HORZ	IN-SX	IN-SX	
-	B	2x6	DRY	No.2	SPF	U	3011	0	0	
-	K	2x6	DRY	No.2	SPF	M	3012	0	5-8	
-	Q	2x6	DRY	No.2	SPF				5-8	
-	M	2x6	DRY	No.2	SPF					
					UNFACTORED REACTIONS					
*** SPECIAL LOADS ANALYSIS ***										
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.										
LOADS WERE DERIVED FROM USER INPUT										
NO FURTHER MODIFICATIONS WERE MADE										
SPECIAL LOADS:										

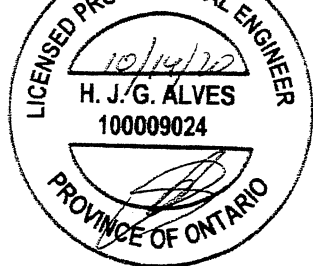
UNFACTORED REACTIONS									
JT	1ST LCASE		MAX. MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL		
	COMBINED	SNOW	LIVE	PERM. LIVE					
U	2129	1401.0	0.0	0.0	0.0	727.0	0.0		
M	2129	1402.0	0.0	0.0	0.0	728.0	0.0		

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) U, M
BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.58 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0.35	-91.8	-91.8 0.07 (1)	10.00	T-C	-524.0	0.07 (1)
B-C	-3503.0	-91.8	-91.8 0.20 (1)	4.83	R-E	-523.0	0.07 (1)
C-V	-5127.0	-91.8	-91.8 0.41 (1)	3.90	P-G	-519.0	0.07 (1)
V-W	-5127.0	-91.8	-91.8 0.41 (1)	3.90	N-J	-524.0	0.07 (1)
W-D	-5127.0	-91.8	-91.8 0.41 (1)	3.90	B-T	0.2993	0.37 (1)
D-X	-6052.0	-91.8	-91.8 0.46 (1)	3.58	N-K	0.2993	0.37 (1)
X-Y	-6052.0	-91.8	-91.8 0.46 (1)	3.58	D-R	0.1170	0.14 (1)
Y-E	-6052.0	-91.8	-91.8 0.46 (1)	3.58	C-S	0.2796	0.35 (1)
E-Z	-6052.0	-91.8	-91.8 0.24 (1)	3.78	S-D	-1540.0	0.20 (1)
Z-F	-6052.0	-91.8	-91.8 0.24 (1)	3.78	O-J	0.2797	0.35 (1)
F-AA	-6051.0	-91.8	-91.8 0.24 (1)	3.78	P-I	0.1167	0.14 (1)
AA-G	-6051.0	-91.8	-91.8 0.24 (1)	3.78	O-I	-1541.0	0.20 (1)
G-AB	-6051.0	-91.8	-91.8 0.46 (1)	3.58	R-F	-72.0	0.01 (1)
AB-H	-6051.0	-91.8	-91.8 0.46 (1)	3.58	F-P	-73.0	0.01 (1)
H-I	-6051.0	-91.8	-91.8 0.46 (1)	3.58			
I-AC	-5128.0	-91.8	-91.8 0.41 (1)	3.90			
AC-AD	-5128.0	-91.8	-91.8 0.41 (1)	3.90			
AD-J	-5128.0	-91.8	-91.8 0.41 (1)	3.90			
J-K	-3504.0	-91.8	-91.8 0.20 (1)	4.83			
K-L	0.35	-91.8	-91.8 0.07 (1)	10.00			
U-B	-2960.0	0.0	0.0 0.11 (1)	7.81			
M-K	-2961.0	0.0	0.0 0.11 (1)	7.81			
U-AE	0.0	-18.5	-18.5 0.04 (4)	10.00			
AE-AF	0.0	-18.5	-18.5 0.04 (4)	10.00			
AF-T	0.0	-18.5	-18.5 0.04 (4)	10.00			
T-AG	0.2895	-18.5	-18.5 0.22 (1)	10.00			
AG-AH	0.2895	-18.5	-18.5 0.22 (1)	10.00			
AH-S	0.2895	-18.5	-18.5 0.22 (1)	10.00			
S-AI	0.5127	-18.5	-18.5 0.39 (1)	10.00			
AI-AJ	0.5127	-18.5	-18.5 0.39 (1)	10.00			
AJ-R	0.5127	-18.5	-18.5 0.39 (1)	10.00			
R-AK	0.6082	-18.5	-18.5 0.44 (1)	10.00			
AK-Q	0.6082	-18.5	-18.5 0.44 (1)	10.00			
Q-P	0.6082	-18.5	-18.5 0.44 (1)	10.00			
P-AL	0.5129	-18.5	-18.5 0.39 (1)	10.00			
AL-AM	0.5129	-18.5	-18.5 0.39 (1)	10.00			
AM-O	0.5129	-18.5	-18.5 0.39 (1)	10.00			
O-AN	0.2896	-18.5	-18.5 0.22 (1)	10.00			
AN-AO	0.2896	-18.5	-18.5 0.22 (1)	10.00			
AO-N	0.2896	-18.5	-18.5 0.22 (1)	10.00			
N-AP	0.0	-18.5	-18.5 0.04 (4)	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
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, NBCC 2010, NBCC 2015
THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014
(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD
ALLOWABLE DEFL.(LL)= L/360 (1.03")
CALCULATED VERT. DEFL.(LL)= L/999 (0.15")
ALLOWABLE DEFL.(TL)= L/360 (1.03")
CALCULATED VERT. DEFL.(TL)= L/999 (0.28")
CSI: TC=0.46/1.00 (G-I:1), BC=0.44/1.00 (P-R:1), WB=0.37/1.00 (K-N:1), SSI=0.17/1.00 (I-J:1)
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00
COMP=1.00 SHEAR=1.00 TENS=1.00
COMPANION LIVE LOAD FACTOR = 1.00
AUTOSOLVE HEELS OFF
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (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= 0.84 (C) (INPUT= 0.90)
JSI METAL= 0.58 (Q) (INPUT= 1.00)



Structural component only
DWG# T-2022153 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
406513	T1	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 10:41:38 2020 Page 2
ID:8ITcKsuAqJzVBsZ1WqSCavyOHpK-p0rbHwTO7?1?o cKU7IGEdiZilvHKZHLdVqbQivTXhR

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.50	3.00
C	TTWW-m	MT20	5.0	8.0	1.75	3.00
D, F, I						
D	TMWW-t	MT20	4.0	4.0		
E	TMW+w	MT20	2.0	4.0		
G	TMW+w	MT20	2.0	4.0		
H	TS-t	MT20	3.0	6.0		
J	TTWW-m	MT20	5.0	8.0	1.75	3.00
K	TMVW-p	MT20	5.0	6.0	1.50	3.00
M	BMV1+p	MT20	3.0	6.0		
N, O, S, T						
N	BMWW-t	MT20	5.0	6.0		
P	BMWW-t	MT20	5.0	8.0		
Q	BS-t	MT20	5.0	6.0		
R	BMWW-t	MT20	5.0	8.0		
U	BMV1+p	MT20	3.0	6.0		

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC	CS1 (LC)
FR-TO		FROM TO		FR-TO		LENGTH	
AP-AQ	0 0	-18.5 -18.5	0.04 (4)	10.00			
AQ-M	0 0	-18.5 -18.5	0.04 (4)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	4-0-11	-40	-40	---	FRONT	VERT	DEAD	---	C1
C	4-0-11	-169	-169	---	FRONT	VERT	SNOW	---	C1
D	9-0-12	-76	-76	---	FRONT	VERT	TOTAL	---	C1
H	19-11-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
I	21-11-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
J	26-11-5	-40	-40	---	FRONT	VERT	DEAD	---	C1
J	26-11-5	-169	-169	---	FRONT	VERT	SNOW	---	C1
O	21-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
Q	15-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
S	9-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
V	5-0-12	-76	-76	---	FRONT	VERT	TOTAL	---	C1
W	7-0-12	-76	-76	---	FRONT	VERT	TOTAL	---	C1
X	11-0-12	-76	-76	---	FRONT	VERT	TOTAL	---	C1
Y	13-0-12	-76	-76	---	FRONT	VERT	TOTAL	---	C1
Z	15-0-12	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AA	15-11-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AB	17-11-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AC	23-11-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AD	25-11-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AE	1-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AF	3-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AG	5-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AH	7-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AI	11-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AJ	13-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AK	15-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AL	17-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AM	19-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AN	23-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AO	25-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AP	27-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AQ	29-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

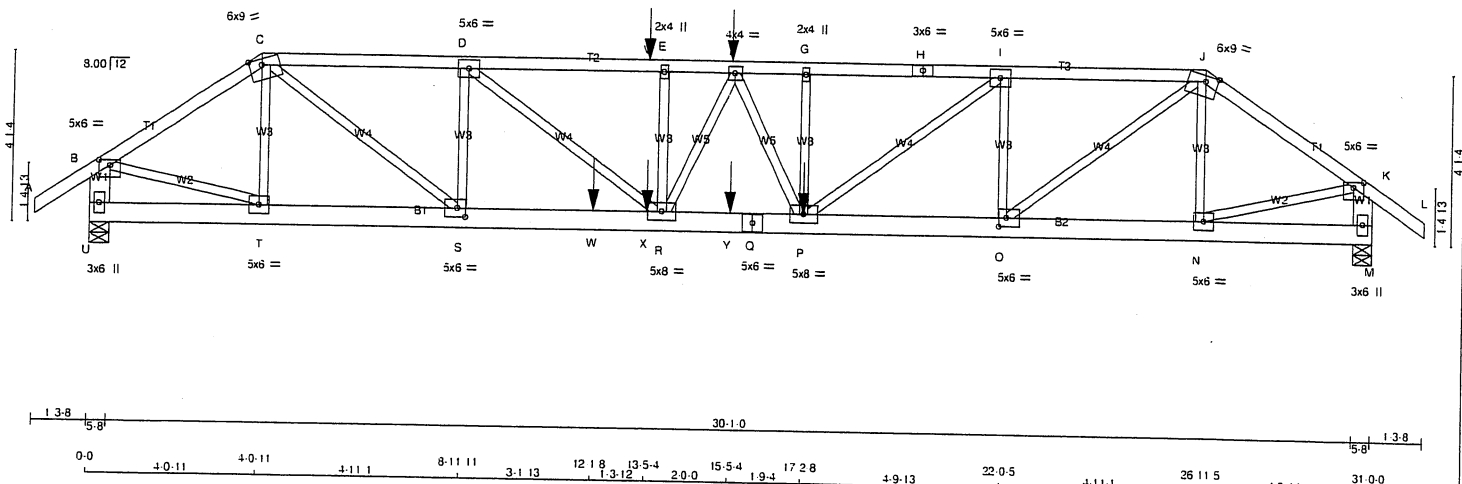
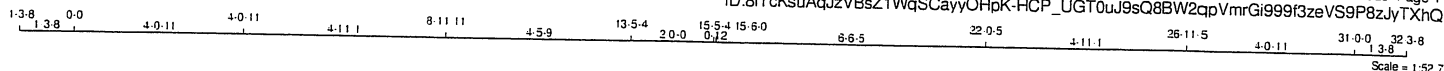


Structural component only
DWG# T-2022153 2/2

JOB NAME 406513	TRUSS NAME T1Z	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	--------------------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MTEK Industries, Inc. Wed Oct 14 10:41:39 2020 Page 1
ID:8ITcKsuAqJzVBsZ1WqSCayyOHpK-HCP_UGT0uJ9sQB8W2qpVmrGi999f3zeVS9P8zJyTXhQ



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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C 1	12	TOP
C - H 1	12	SIDE(61.0)
H - J 1	12	TOP
J - L 1	12	TOP
U - B 2	12	TOP
M - K 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
U - Q 2	12	SIDE(183.1)
Q - M 2	12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
G - P 1	6	SIDE(277.4)
2x3 1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY

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

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	VERT 3473	DOWN 3473	0	5-8
U	HORZ 0	HORZ 0	0	5-8
M	UPLIFT 0	UPLIFT 0	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX. MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
U	2450	1643	0	0	0
M	2396	1606	0	0	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.87 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MEMB.	FORCE (LBS)
FR-TO			FR-TO	
A-B	0.35	-91.8	T-C	-795.0
B-C	-4125.0	-91.8	R-E	-425.0
C-D	-6985.0	-91.8	P-G	298.0
D-V	-9156.0	-91.8	N-J	-702.0
V-E	-9156.0	-91.8	B-T	0.3523
E-F	-9156.0	-91.8	N-K	0.3453
F-G	-9206.0	-91.8	D-R	0.2746
G-H	-9206.0	-91.8	C-S	0.4487
H-I	-9206.0	-91.8	S-D	-2189.0
I-J	-6736.0	-91.8	O-J	0.4257
J-K	-4043.0	-91.8	P-I	0.3123
K-L	0.35	-91.8	O-I	-2419.0
U-B	-3430.0	0.0	R-F	-158.0
M-K	-3368.0	0.0	F-P	-39.0
U-T	0.0	-18.5		
T-S	0.3404	-18.5		
S-W	0.6985	-18.5		
W-X	0.6985	-18.5		
X-R	0.6985	-18.5		
R-Y	0.9222	-18.5		
Y-Q	0.9222	-18.5		
Q-P	0.9222	-18.5		
P-O	0.6736	-18.5		
O-N	0.3338	-18.5		
N-M	0.0	-18.5		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	15-5-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
P	17-2-8	-1244	-1244	---	BACK	VERT	TOTAL	---	C1
V	13-5-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
W	12-1-8	-817	-817	---	BACK	VERT	TOTAL	---	C1
X	13-5-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
Y	15-5-4	-21	-21	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.03")
CALCULATED VERT. DEFL.(LL) = L/999 (0.23")
ALLOWABLE DEFL.(TL) = L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/898 (0.41")

CSI: TC=0.58/1.00 (G-I:1), BC=0.82/1.00 (R-S:1)
WB=0.56/1.00 (C-S:1), SS=0.28/1.00 (R-S:1)
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00
COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (T) (INPUT = 0.90)
JSI METAL= 0.83 (Q) (INPUT = 1.00)



Structural component only
DWG# T-2022154 1/2

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
406513	T1Z	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 10:41:39 2020 Page 2
ID:8iTcKsuAqJzVBsZ1WqSCavyOHpK-HCP UGT0uJ9sQ8BW2qpVmrGi999f3zeVS9P8zJyTXhQ

PLATES (table is in inches)

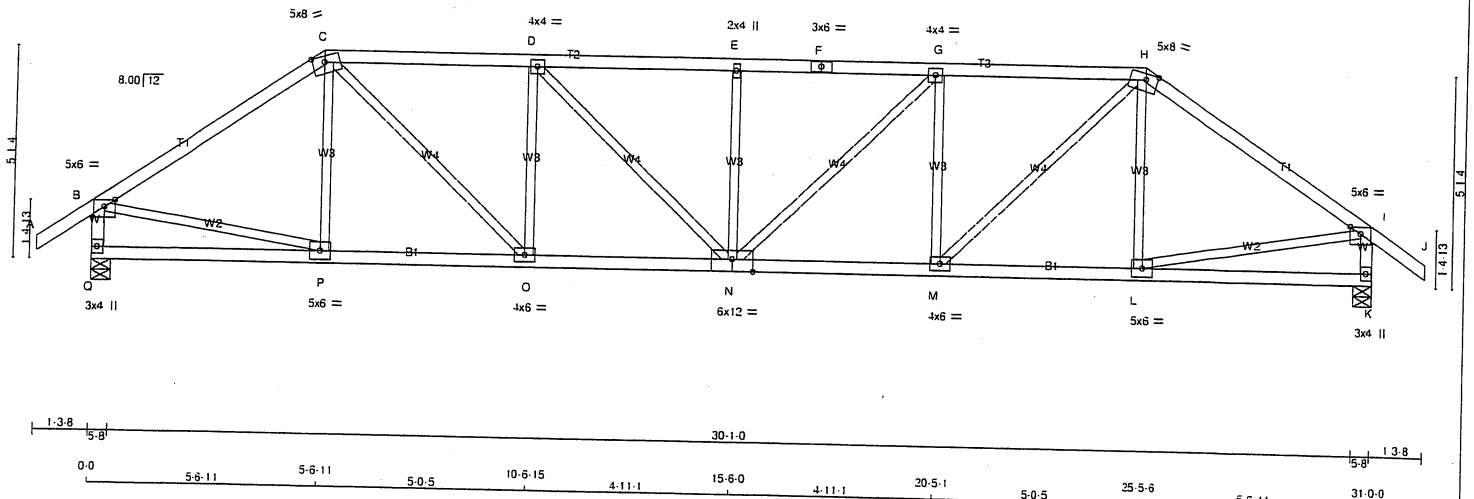
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.50	3.00
C	TTWW-m	MT20	6.0	9.0	1.75	3.75
D	TMWW-t	MT20	5.0	6.0		
E	TMW-w	MT20	2.0	4.0		
F	TMWW-t	MT20	4.0	4.0		
G	TMW-w	MT20	2.0	4.0		
H	TS-t	MT20	3.0	6.0		
I	TMWW-t	MT20	5.0	6.0		
J	TTWW-m	MT20	6.0	9.0	1.75	3.75
K	TMVW-p	MT20	5.0	6.0	1.50	3.00
M	BMV1+p	MT20	3.0	6.0		
N	BMWW-t	MT20	5.0	6.0		
O	BMWW-t	MT20	5.0	6.0	2.50	2.25
P	BMWW-t	MT20	5.0	6.0		
R	BS-t	MT20	5.0	6.0		
S	BMWW-t	MT20	5.0	6.0		
T	BMWW-t	MT20	5.0	6.0	2.50	2.25
U	BMV1+p	MT20	3.0	6.0		



Structural component only
DWG# T-2022154 *2/2*

JOB NAME 406513	TRUSS NAME T2	QUANTITY 2	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.330 S May 6 2020 MITek Industries, Inc. Wed Oct 14 10:41:40 2020 Page 1 ID:8ITcKsuAqJzVBsZ1WqSCayyOHpK-IOzMhcUefcHi2ImjbyYKkJ2psmZZQoTieho9hVlyTXhp	

1-3.8 0-0 5-6-11 5-6-11 5-0-5 10-6-15 4-11-1 15-6-0 4-11-1 20-5-1 5-0-5 25-5-6 5-6-11 31-0-0 32-3-8
Scale = 1:52.7



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
Q - B	2x4	DRY	No.2	SPF
K - I	2x4	DRY	No.2	SPF
O - N	2x4	DRY	No.2	SPF
N - K	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	5.0	6.0	Edge	
C	TTWW-m	MT20	5.0	8.0	1.75	3.50
D	TMVW-t	MT20	4.0	4.0		
E	TMVW-w	MT20	2.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TMVW-t	MT20	4.0	4.0		
H	TTWW-m	MT20	5.0	8.0	1.75	3.50
I	TMVW-p	MT20	5.0	6.0	Edge	
K	BMV1+p	MT20	3.0	4.0		
L	BMVW-t	MT20	5.0	6.0		
M	BMVW-t	MT20	4.0	6.0		
N	BSVWW-t	MT20	6.0	12.0	Edge	6.00
O	BMVW-t	MT20	4.0	6.0		
P	BMVW-t	MT20	5.0	6.0		
Q	BMV1+p	MT20	3.0	4.0		

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

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

BEARINGS

JT	VERT	HORZ	MAXIMUM FACTORED GROSS REACTION	FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
Q	1835	0	1835	0	5-8	5-8
K	1835	0	1835	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST CASE	MAX./MIN. COMPONENT REACTIONS	2ND CASE	MAX./MIN. COMPONENT REACTIONS
Q	COMBINED	SNOW	LIVE	PERM. LIVE
Q	1295	863.0	0.0	0.0
K	1295	863.0	0.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	W E B S	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 (PLF)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
A-B	0.35	-91.8 -91.8 0.12 (1)	P-C	-202.16
B-C	-1974.0	-91.8 -91.8 0.66 (1)	L-H	-202.16
C-D	-2528.0	-91.8 -91.8 0.45 (1)	B-P	0.1670
D-E	-2782.0	-91.8 -91.8 0.47 (1)	L-I	0.1670
E-F	-2782.0	-91.8 -91.8 0.47 (1)	M-H	0.1234
F-G	-2782.0	-91.8 -91.8 0.47 (1)	C-O	0.1234
G-H	-2528.0	-91.8 -91.8 0.45 (1)	M-G	-760.0
H-I	-1974.0	-91.8 -91.8 0.66 (1)	O-D	-760.0
I-J	0.35	-91.8 -91.8 0.12 (1)	N-G	0.354
Q-B	-1791.0	0.0 0.0 0.18 (1)	D-N	0.354
K-I	-1791.0	0.0 0.0 0.18 (1)	N-E	-416.0
Q-P	0.0	-18.5 -18.5 0.13 (4)		
P-O	0.1636	-18.5 -18.5 0.33 (1)		
O-N	0.2529	-18.5 -18.5 0.46 (1)		
N-M	0.2529	-18.5 -18.5 0.46 (1)		
M-L	0.1636	-18.5 -18.5 0.33 (1)		
L-K	0.0	-18.5 -18.5 0.13 (4)		

TOTAL WEIGHT = 2 X 128 = 256 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

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

ALLOWABLE DEFL.(LL) = L/360 (1.03")
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")
ALLOWABLE DEFL.(TL) = L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/999 (0.25")

CSI: TC=0.66/1.00 (B-C:1), BC=0.46/1.00 (M-N:1), WB=0.38/1.00 (B-P:1), SSI=0.22/1.00 (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)
MAX MIN MAX MIN	MAX MIN MAX MIN	MAX MIN
MT20	618 354 1667 788	1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

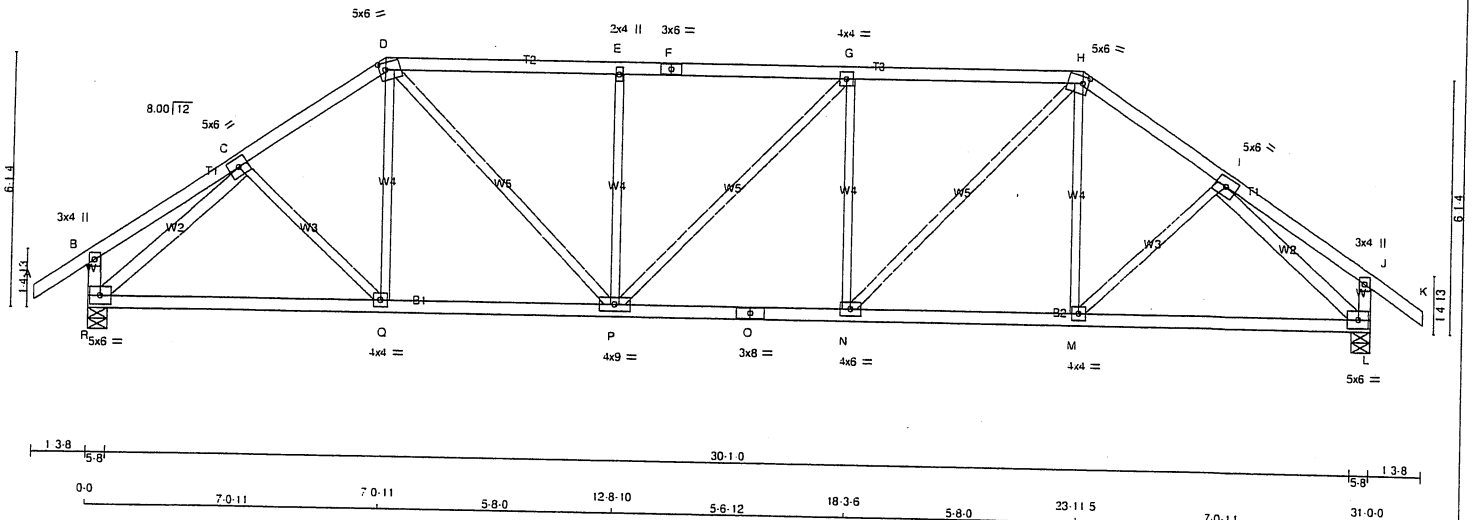
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (B) (INPUT = 0.90)
JSI METAL= 0.47 (N) (INPUT = 1.00)



Structural component only
DWG# T-2022155

JOB NAME 406513	TRUSS NAME T3	QUANTITY 2	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 10:41:41 2020 Page 1	
				ID:8ITcKsuAqJzVBsZ1WqSCayyOHpK-DbWkvyVGQwPzISLv9FsZsGL2ZzwMXsNnwSuF1ByTXhO	
1 3.8 0.0 3.7.9 3.7.9 3.5.1 7.0-11 5.8-0 12.8-10 5.6-12 18.3-6 5.8-0 23.11.5 3.5.1 27.4-7 3.7.9 31.0-0 32.3-8 Scale = 1:52.7					



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	SIZE	LUMBER	DESCR.
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	TMWW-t	MT20	5.0	6.0		
D	TTWW-m	MT20	5.0	6.0	2.00	1.75
E	TMW+w	MT20	2.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TMWW-t	MT20	4.0	4.0		
H	TTWW-m	MT20	5.0	6.0	2.00	1.75
I	TMWW-t	MT20	5.0	6.0		
J	TMV+p	MT20	3.0	4.0		
L	BMVW1-t	MT20	5.0	6.0		
M	BMVW1-t	MT20	4.0	4.0		
N	BMVW1-t	MT20	4.0	6.0		
O	BS-t	MT20	3.0	8.0		
P	BMVW1-t	MT20	4.0	9.0		
Q	BMVW1-t	MT20	4.0	4.0		
R	BMVW1-t	MT20	5.0	6.0		

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD
JT	VERT	HORZ	DOWN	HORZ
R	1835	0	1835	0
L	1835	0	1835	0

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1295	863	0	0	0	432	0
L	1295	863	0	0	0	432	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 = 4.01 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 35	-91.8 -91.8	0.12 (1)	10.00	C-Q	0 72 0.02 (4)	
B-C	0 19	-91.8 -91.8	0.17 (1)	10.00	Q-D	0 106 0.04 (4)	
C-D	-1970 0	-91.8 -91.8	0.22 (1)	4.60	D-P	0 910 0.20 (1)	
D-E	-2257 0	-91.8 -91.8	0.52 (1)	4.02	P-E	-557 0 0.33 (1)	
E-F	-2258 0	-91.8 -91.8	0.52 (1)	4.01	P-G	-2 0 0.00 (1)	
F-G	-2258 0	-91.8 -91.8	0.52 (1)	4.01	N-G	-558 0 0.33 (1)	
G-H	-2259 0	-91.8 -91.8	0.53 (1)	4.01	N-H	0 912 0.21 (1)	
H-I	-1970 0	-91.8 -91.8	0.22 (1)	4.60	M-I	0 106 0.04 (4)	
I-J	0 19	-91.8 -91.8	0.17 (1)	10.00	M-I	0 72 0.02 (4)	
J-K	0 35	-91.8 -91.8	0.12 (1)	10.00	R-C	-2189 0 0.60 (1)	
K-L	-253 0	0.0 0.0	0.03 (1)	7.81	I-L	-2189 0 0.60 (1)	
L-J	-253 0	0.0 0.0	0.03 (1)	7.81			
R-Q	0 1569	-18.5 -18.5	0.37 (1)	10.00			
Q-P	0 1622	-18.5 -18.5	0.37 (1)	10.00			
P-O	0 2259	-18.5 -18.5	0.42 (1)	10.00			
O-N	0 2259	-18.5 -18.5	0.42 (1)	10.00			
N-M	0 1622	-18.5 -18.5	0.37 (1)	10.00			
M-L	0 1568	-18.5 -18.5	0.37 (1)	10.00			

TOTAL WEIGHT = 2 X 135 = 270 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

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

ALLOWABLE DEFL.(LL) = L/360 (1.03")
CALCULATED VERT. DEFL.(LL) = L/999 (0.10")
ALLOWABLE DEFL.(TL) = L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/999 (0.19")

CSI: TC=0.53/1.00 (G-H:1), BC=0.42/1.00 (N-P:1), WB=0.60/1.00 (C-R: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

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
MT20	618	354	1667
	788	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.85 (C) (INPUT = 0.90)

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

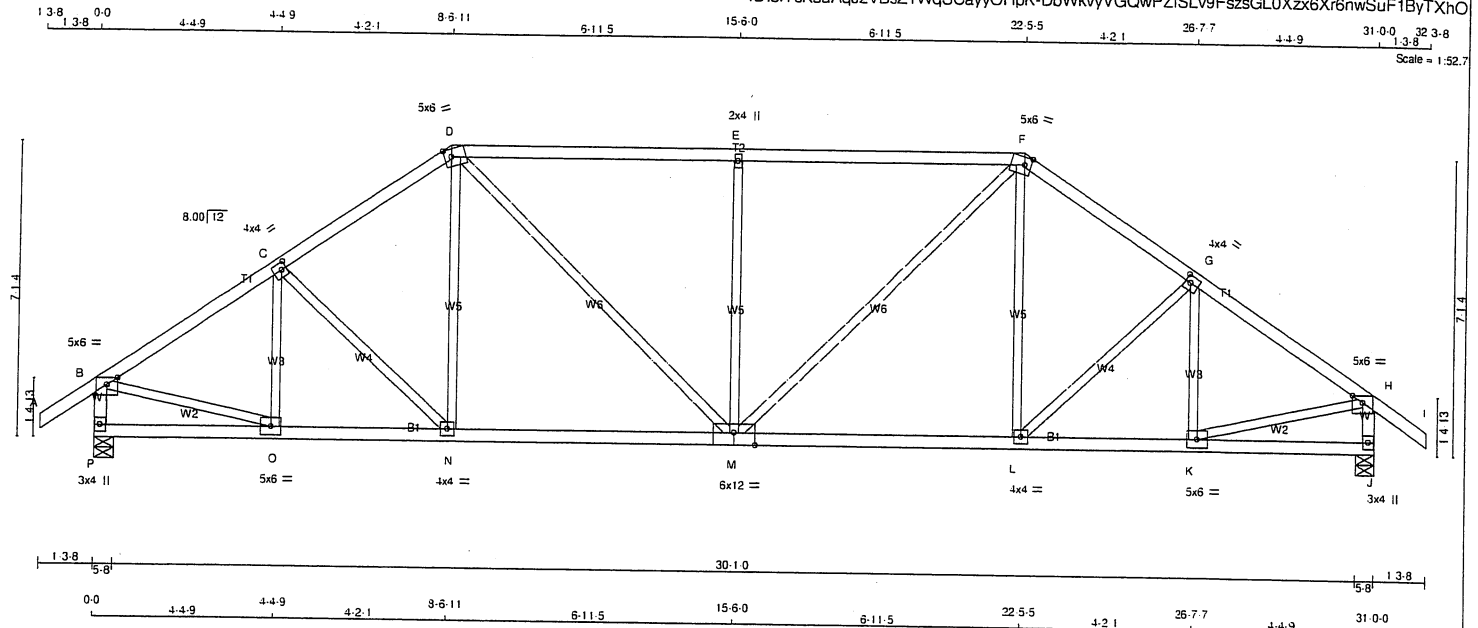


Structural component only
DWG# T-2022156

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
406513	T4	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 10:41:41 2020 Page 1
ID:8ITcKsuAqJzVBsZ1WqSCayyOHpK-DbWkvVGQwPZfSLv9FszsGL0Xzx6Xr6nwSuF1ByTXhO



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
P - B	2x4	DRY No.2	SPF
J - H	2x4	DRY No.2	SPF
P - M	2x4	DRY No.2	SPF
M - J	2x4	DRY No.2	SPF

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	Edge	
C	TMVW-l	MT20	4.0	4.0	2.00	1.50
D	TTWW-m	MT20	5.0	6.0	2.25	2.00
E	TMVW-w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	6.0	2.25	2.00
G	TMVW-l	MT20	4.0	4.0	2.00	1.50
H	TMVW-p	MT20	5.0	6.0	Edge	
J	BMV1+p	MT20	3.0	4.0		
K	BMVW-l	MT20	5.0	6.0		
L	BMVW-l	MT20	4.0	4.0		
M	BSVWW-l	MT20	6.0	12.0	Edge	6.00
N	BMVW-l	MT20	4.0	4.0		
O	BMVW-l	MT20	5.0	6.0		
P	BMV1+p	MT20	3.0	4.0		

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

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	RECD
P	1835	0	1835	0	0	5-8	5-8
J	1835	0	1835	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX	MIN	COMPONENT	REACTIONS	DEAD	SOIL
P	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	432	0
J	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	432	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.96 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX.	MEMB.	WEBS	MAX. FACTORED	MAX
FR-TO		FORCE (LBS)	(PLF)			CS (LC)	UNBRAC			FORCE (LBS)	CS (LC)
A-B		0	35	-91.8	-91.8	0.12 (1)	10.00	O-C		-344	0
B-C		-1966	0	-91.8	-91.8	0.26 (1)	4.58	C-N		-123	0
C-D		-1911	0	-91.8	-91.8	0.25 (1)	4.64	N-D		0	215
D-E		-2023	0	-91.8	-91.8	0.66 (1)	3.96	D-M		0	634
E-F		-2023	0	-91.8	-91.8	0.66 (1)	3.96	M-E		-784	0
F-G		-1911	0	-91.8	-91.8	0.25 (1)	4.64	M-F		0	634
G-H		-1966	0	-91.8	-91.8	0.26 (1)	4.58	L-F		0	215
H-I		0	35	-91.8	-91.8	0.12 (1)	10.00	L-G		-123	0
P-B		-1796	0	0.0	0.0	0.18 (1)	6.24	K-G		-344	0
J-H		-1796	0	0.0	0.0	0.18 (1)	6.24	B-O		0	1706
P-O		0	0	-18.5	-18.5	0.08 (4)	10.00	K-H		0	1706
O-N		0	1656	-18.5	-18.5	0.37 (1)	10.00				
N-M		0	1570	-18.5	-18.5	0.36 (1)	10.00				
M-L		0	1570	-18.5	-18.5	0.36 (1)	10.00				
L-K		0	1656	-18.5	-18.5	0.37 (1)	10.00				
K-J		0	0	-18.5	-18.5	0.08 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C/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

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

ALLOWABLE DEFL.(LL)= L/360 (1.03")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/999 (0.20")

CSI: TC=0.66/1.00 (D-E:1), BC=0.37/1.00 (N-O:1), WB=0.68/1.00 (E-M:1), SSI=0.31/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (H) (INPUT = 0.90)
JSI METAL = 0.41 (K) (INPUT = 1.00)



Structural component only
DWG# T-2022157

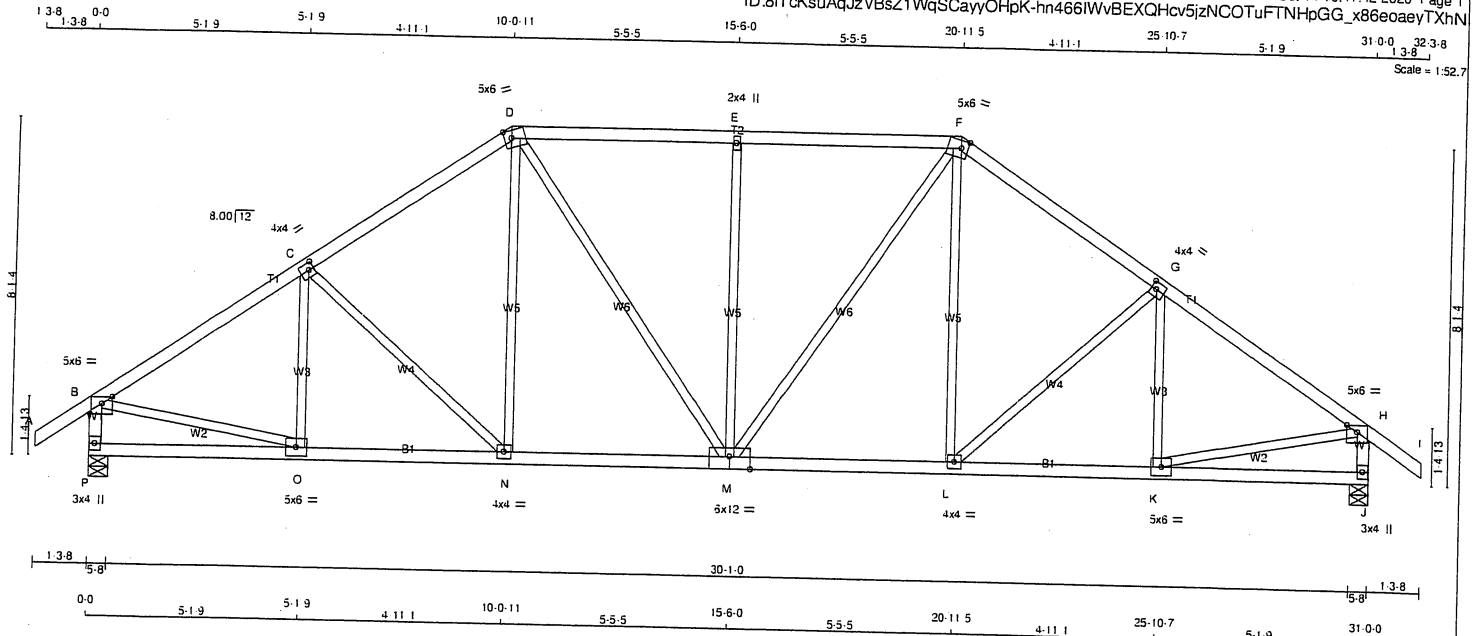
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
406513	T5	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 10:41:42 2020 Page 1

ID:8ITcKsuAqJzVBsZ1WqSCayyOHpK-hn466IWvBEXQHcv5jzNCOTuFTNHpGG_x86eoaeyTXhN

Scale = 1:52.7



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
P - B	2x4 DRY	No.2	SPF
J - H	2x4 DRY	No.2	SPF
P - M	2x4 DRY	No.2	SPF
M - J	2x4 DRY	No.2	SPF

ALL WEBS EXCEPT 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	Edge	
C	TMWW-t	MT20	4.0	4.0	2.00	1.50
D	TTWW-m	MT20	5.0	6.0	2.25	2.00
E	TMW+w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	6.0	2.25	2.00
G	TMWW-t	MT20	4.0	4.0	2.00	1.50
H	TMVW-p	MT20	5.0	6.0	Edge	
J	BMV1+p	MT20	3.0	4.0		
K	BMWW-t	MT20	5.0	6.0		
L	BMWW-t	MT20	4.0	4.0		
M	BSWWW-t	MT20	6.0	12.0	Edge	6.00
N	BMWW-t	MT20	4.0	4.0		
O	BMWW-t	MT20	5.0	6.0		
P	BMV1+p	MT20	3.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	MAXIMUM FACTORED GROSS REACTION DOWN	INPUT BRG IN-SX	REQD BRG IN-SX
P	1835	0	0	5-8
J	1835	0	0	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX. SNOW	MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
P	1295	863	0	0	0	432	0
J	1295	863	0	0	0	432	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.44 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED		MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED	
		VERT. LOAD (PLF)	LC1 MAX CSI (LC)			FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		
A-B	0 35	-91.8	-91.8	0.12 (1)	10.00	O-C	-261 0 0.09 (1)
B-C	-2005 0	-91.8	-91.8	0.36 (1)	4.44	C-N	-270 0 0.23 (1)
C-D	-1827 0	-91.8	-91.8	0.34 (1)	4.62	N-D	0 290 0.07 (1)
D-E	-1737 0	-91.8	-91.8	0.39 (1)	4.64	D-M	0 421 0.09 (1)
E-F	-1737 0	-91.8	-91.8	0.39 (1)	4.64	M-E	-610 0 0.77 (1)
F-G	-1827 0	-91.8	-91.8	0.34 (1)	4.62	M-F	0 421 0.09 (1)
G-H	-2005 0	-91.8	-91.8	0.36 (1)	4.44	L-F	0 290 0.07 (1)
H-I	0 35	-91.8	-91.8	0.12 (1)	10.00	L-G	-270 0 0.23 (1)
P-B	-1793 0	0.0	0.0	0.18 (1)	6.24	K-G	-261 0 0.09 (1)
J-H	-1793 0	0.0	0.0	0.18 (1)	6.24	B-O	0 1730 0.39 (1)
						K-H	0 1730 0.39 (1)
P-O	0 0	-18.5	-18.5	0.10 (4)	10.00		
O-N	0 1693	-18.5	-18.5	0.34 (1)	10.00		
N-M	0 1496	-18.5	-18.5	0.31 (1)	10.00		
M-L	0 1496	-18.5	-18.5	0.31 (1)	10.00		
L-K	0 1693	-18.5	-18.5	0.34 (1)	10.00		
K-J	0 0	-18.5	-18.5	0.10 (4)	10.00		

TOTAL WEIGHT = 2 X 140 = 280 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

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

ALLOWABLE DEFL.(LL) = L/360 (1.03")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CSI: TC=0.39/1.00 (D-E:1), BC=0.34/1.00 (K-L:1).
WB=0.77/1.00 (E-M:1), SSI=0.24/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

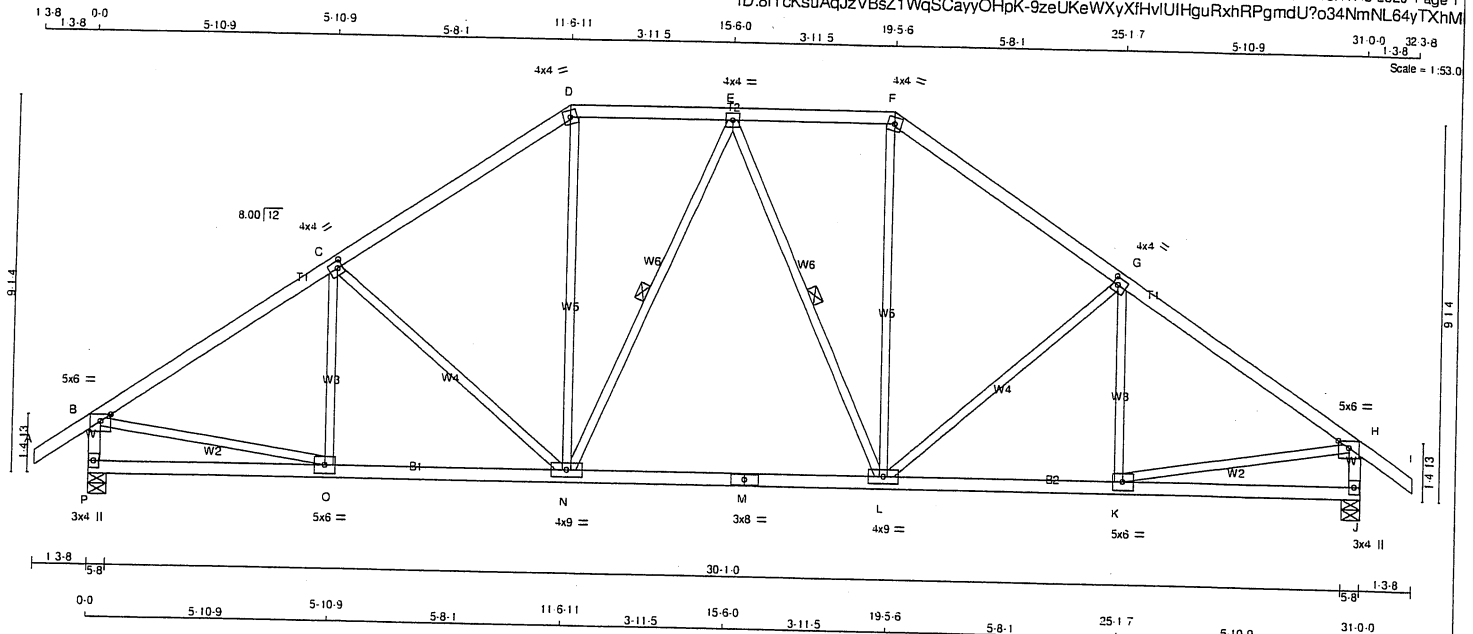
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (H) (INPUT = 0.90)
JSI METAL = 0.42 (O) (INPUT = 1.00)



Structural component only
DWG# T-2022158

JOB NAME 406513	TRUSS NAME T6	QUANTITY 5	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 10:41:43 2020 Page 1	
ID:8ITcKsuAqJzVBsZ1WqSCayyOHpK-9zeUKeWXYXfHvUIHguRxxRPgmdU?o34NmNL64yTXhM					



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

ALL WEBS 2x3 DRY No.2
EXCEPT
SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-p	MT20	5.0	6.0	Edge
C	TMWW-t	MT20	4.0	4.0	2.00 1.50
D	TTW-m	MT20	4.0	4.0	
E	TMWW-t	MT20	4.0	4.0	
F	TTW-m	MT20	4.0	4.0	
G	TMWW-t	MT20	4.0	4.0	2.00 1.50
H	TMVW-p	MT20	5.0	6.0	Edge
J	BMV1+p	MT20	3.0	4.0	
K	BMWW-t	MT20	5.0	6.0	
L	BMWW-t	MT20	4.0	9.0	
M	BS-t	MT20	3.0	8.0	
N	BMWW-t	MT20	4.0	9.0	
O	BMWW-t	MT20	5.0	6.0	
P	BMV1+p	MT20	3.0	4.0	

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

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	JT	HORZ	JT	IN-SX	JT	IN-SX
P	1835	0	1835	0	5-8	5-8	5-8
J	1835	0	1835	0	5-8	5-8	5-8

UNFACTORED REACTIONS

1ST CASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
P	1295	863	0	0	0	432
J	1295	863	0	0	0	432

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

BRACING

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

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO			
A-B	0 35	-91.8	-91.8 0.12 (1)	10.00	C-C	-205 21	0.09 (1)
B-C	-2021 0	-91.8	-91.8 0.49 (1)	4.27	C-N	-394 0	0.46 (1)
C-D	-1736 0	-91.8	-91.8 0.45 (1)	4.58	N-D	0 604	0.14 (1)
D-E	-1420 0	-91.8	-91.8 0.19 (1)	5.29	L-F	0 604	0.14 (1)
E-F	-1420 0	-91.8	-91.8 0.19 (1)	5.29	L-G	-394 0	0.46 (1)
F-G	-1736 0	-91.8	-91.8 0.45 (1)	4.58	K-G	-205 21	0.09 (1)
G-H	-2021 0	-91.8	-91.8 0.49 (1)	4.27	B-O	0 1739	0.39 (1)
H-I	0 35	-91.8	-91.8 0.12 (1)	10.00	K-H	0 1739	0.39 (1)
P-B	-1788 0	0.0	0.0 0.18 (1)	6.25	N-E	-236 0	0.16 (1)
J-H	-1788 0	0.0	0.0 0.18 (1)	6.25	E-L	-236 0	0.16 (1)
P-O	0 0	-18.5	-18.5 0.13 (4)	10.00			
O-N	0 1710	-18.5	-18.5 0.38 (1)	10.00			
N-M	0 1514	-18.5	-18.5 0.35 (1)	10.00			
M-L	0 1514	-18.5	-18.5 0.35 (1)	10.00			
L-K	0 1710	-18.5	-18.5 0.38 (1)	10.00			
K-J	0 0	-18.5	-18.5 0.13 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.03")
CALCULATED VERT. DEFL.(LL)= L/999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (1.03")
CALCULATED VERT. DEFL.(TL)= L/999 (0.18")

CSI: TC=0.49/1.00 (B-C:1), BC=0.38/1.00 (N-O:1), WB=0.46/1.00 (C-N:1), SS=0.22/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (H) (INPUT = 0.90)
JSI METAL= 0.58 (M) (INPUT = 1.00)

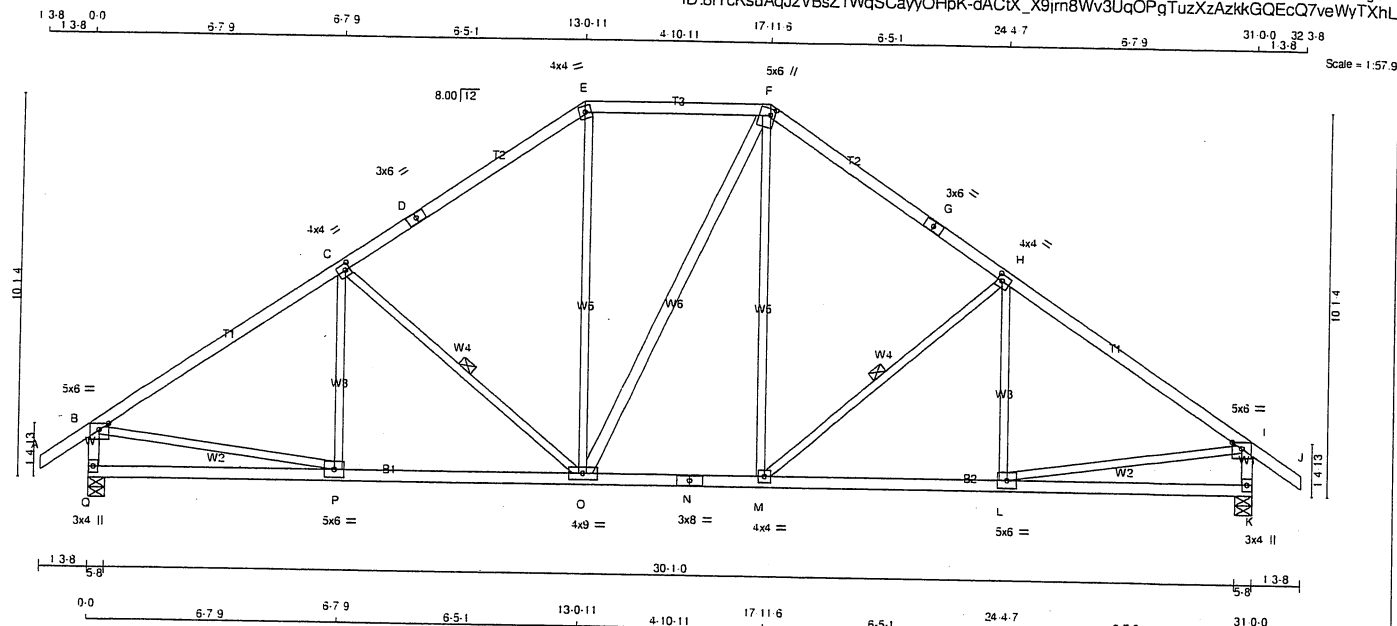


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
406513	T7	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 10:41:44 2020 Page 1

ID:8ITcKsuAqJzVBsZ1WqSCayyOHpK-dACIX_X9Im8Wv3UqOPgTuzXzAzkkGQEcQ7veWYtXhL



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	Edge	
C	TMVW-t	MT20	4.0	4.0	2.00	1.50
D	TS-t	MT20	3.0	6.0		
E	TTW-m	MT20	4.0	4.0		
F	TTW+m	MT20	5.0	6.0	2.00	1.50
G	TS-t	MT20	3.0	6.0		
H	TMVW-t	MT20	4.0	4.0	2.00	1.50
I	TMVW-p	MT20	5.0	6.0	Edge	
K	BMV1+p	MT20	3.0	4.0		
L	BMVW-t	MT20	5.0	6.0		
M	BMVW-t	MT20	4.0	4.0		
N	BS-t	MT20	3.0	8.0		
O	BMVW-t	MT20	4.0	9.0		
P	BMVW-t	MT20	5.0	6.0		
Q	BMV1+p	MT20	3.0	4.0		

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

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

BUILDING DESIGNER									
BEARINGS									
		FACTORED		MAXIMUM FACTORED			INPUT	REQRD	
		GROSS REACTION		GROSS REACTION			BRG	BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX		IN-SX	
Q	1835	0	1835	0	0	5-8		5-8	
K	1835	0	1835	0	0	5-8		5-8	

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS	DEAD	SOIL
Q	1295	863	0	0	0
K	1295	863	0	0	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.05 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 C-O, H-M.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FORCE (LBS)
FR-TO				FR-TO	
A-B	0 35	-91.8	-91.8 0.12 (1)	P-C	-144 62
B-C	-2026 0	-91.8	-91.8 0.64 (1)	C-O	-524 0
C-D	-1628 0	-91.8	-91.8 0.58 (1)	O-E	0 437
D-E	-1628 0	-91.8	-91.8 0.58 (1)	E-F	0 2
E-F	-1323 0	-91.8	-91.8 0.30 (1)	F-G	0 436
F-G	-1627 0	-91.8	-91.8 0.58 (1)	G-H	-525 0
G-H	-1627 0	-91.8	-91.8 0.58 (1)	H-I	-142 63
H-I	-2027 0	-91.8	-91.8 0.64 (1)	I-J	0 1742
I-J	0 35	-91.8	-91.8 0.12 (1)	J-K	0 1742
Q-B	-1784 0	0.0	0.0 0.18 (1)		
K-I	-1785 0	0.0	0.0 0.18 (1)		
Q-P	0 0	-18.5	-18.5 0.20 (4)		
P-O	0 1719	-18.5	-18.5 0.37 (1)		
O-N	0 1323	-18.5	-18.5 0.28 (1)		
N-M	0 1323	-18.5	-18.5 0.28 (1)		
M-L	0 1720	-18.5	-18.5 0.38 (1)		
L-K	0 0	-18.5	-18.5 0.20 (4)		

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.03")
CALCULATED VERT. DEFL.(LL)= L/999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (1.03")
CALCULATED VERT. DEFL.(TL)= L/999 (0.15")

CSI: TC=0.64/1.00 (H-I:1), BC=0.38/1.00 (L-M:1), WB=0.39/1.00 (L-I:1), SS=0.24/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

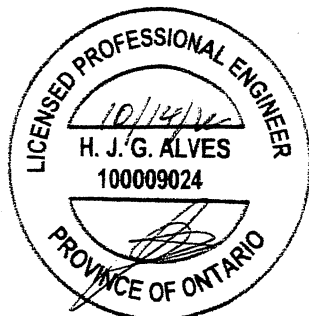
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

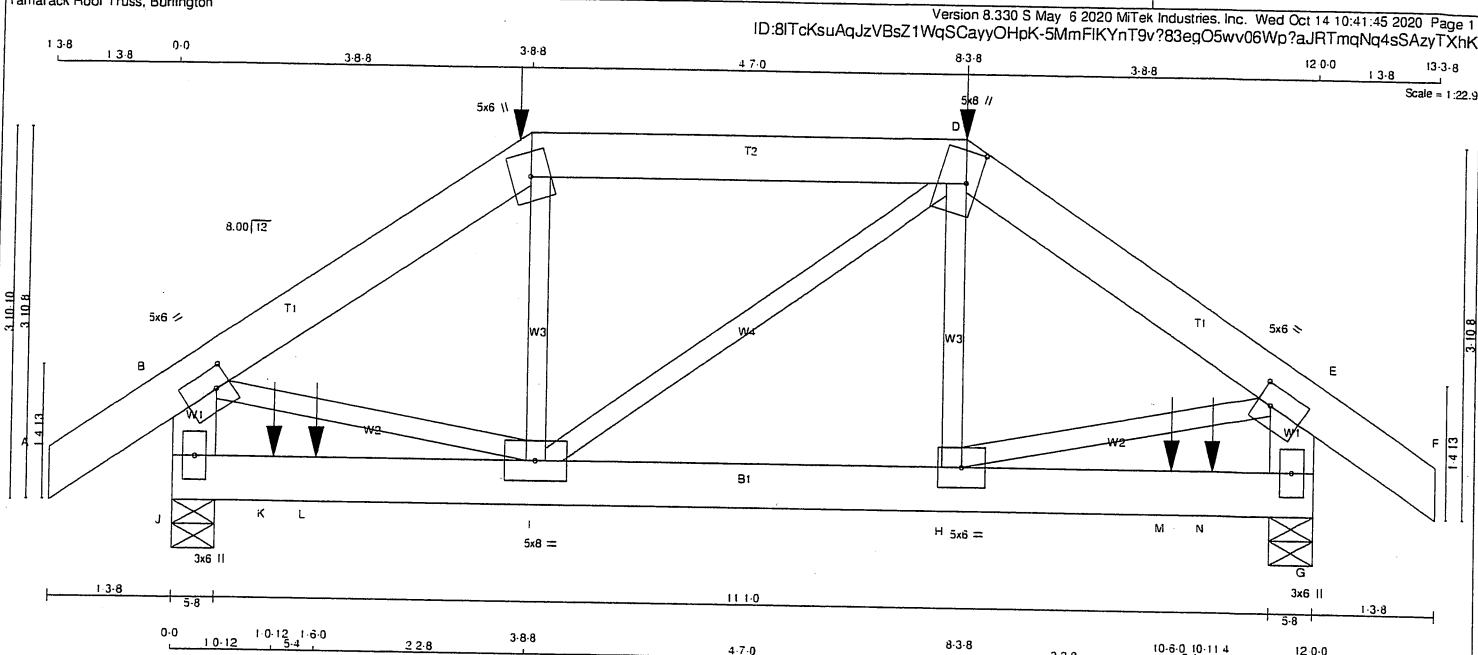
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (I) (INPUT = 0.90)
JSI METAL = 0.43 (L) (INPUT = 1.00)



Structural component only
DWG# T-2022160

JOB NAME 406513	TRUSS NAME T8	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 10:41:45 2020 Page 1	



LUMBER

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

EXCEPT
DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	6.0	2.50	1.75
C	TTW+m	MT20	5.0	6.0		
D	TTW+m	MT20	5.0	8.0	4.00	1.50
E	TMVW-t	MT20	5.0	6.0	2.50	1.75
G	BMVW-t	MT20	3.0	6.0		
H	BMVW-t	MT20	5.0	6.0		
I	BMVW-t	MT20	5.0	8.0		
J	BMVW-t	MT20	3.0	6.0		

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	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
J	1542	0	1542	0	5-8	5-8
G	1542	0	1542	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
J	1088	724.0	0.0	0.0	0.0	364.0	0.0
G	1088	724.0	0.0	0.0	0.0	364.0	0.0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

FR-TO	CHORDS		FACTORED		MAX. UNBRACED LENGTH	MEMB. FR-TO	WEBS	
	MAX. FACTORED FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)			MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
A-B	0.36	-91.8	-91.8	0.07 (1)	10.00	I-C	0.123	0.05 (4)
B-C	-1208.0	-91.8	-91.8	0.13 (1)	6.25	I-D	0.5	0.00 (4)
C-D	-1008.0	-120.4	-120.4	0.24 (1)	6.25	H-D	0.120	0.05 (4)
D-E	-1206.0	-91.8	-91.8	0.12 (1)	6.25	B-I	0.1028	0.25 (1)
E-F	0.36	-91.8	-91.8	0.07 (1)	10.00	H-E	0.1028	0.25 (1)
J-B	-1205.0	0.0	0.0	0.09 (1)	7.81			
G-E	-1209.0	0.0	0.0	0.09 (1)	7.81			
J-K	0.0	-24.3	-24.3	0.35 (1)	10.00			
K-L	0.0	-24.3	-24.3	0.35 (1)	10.00			
L-I	0.0	-24.3	-24.3	0.35 (1)	10.00			
I-H	0.1004	-24.3	-24.3	0.23 (1)	10.00			
H-M	0.0	-24.3	-24.3	0.34 (1)	10.00			
M-N	0.0	-24.3	-24.3	0.34 (1)	10.00			
N-G	0.0	-24.3	-24.3	0.34 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
C	3-8-8	-86	-86	---	FRONT	VERT	---	C1
D	8-3-8	-86	-86	---	FRONT	VERT	---	C1
K	1-0-12	-13	-13	---	BACK	VERT	---	C1
L	1-6-0	-359	-359	---	BACK	VERT	---	C1
M	10-6-0	-359	-359	---	BACK	VERT	---	C1
N	10-11-4	-13	-13	---	BACK	VERT	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 3-8-8
END SETBACK = 3-8-8
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADD'L LOADS BASED ON 55 % OF GSL.

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

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

(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 (0.40")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.40")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.24/1.00 (C-D:1), BC=0.35/1.00 (I-J:1), WB=0.25/1.00 (B-I:1), SS=0.22/1.00 (I-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (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= 0.84 (B) (INPUT = 0.90)
JSI METAL= 0.34 (B) (INPUT = 1.00)

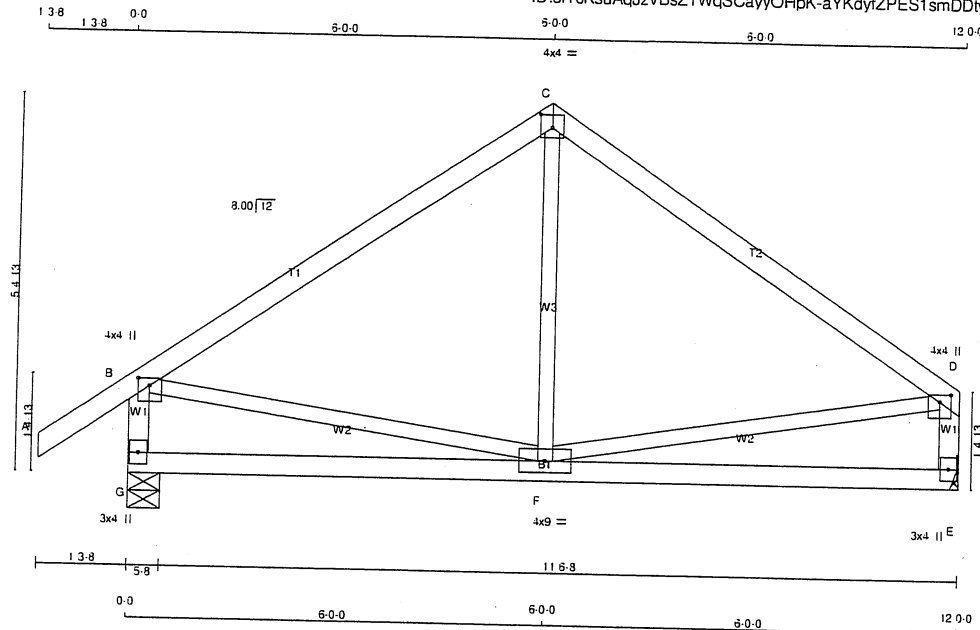


Structural component only
DWG# T-2022161

JOB NAME 406513	TRUSS NAME T10	QUANTITY 3	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
--------------------	-------------------	---------------	----------	-------------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 10:41:46 2020 Page 1
ID:8ITcKsuAqJzVBsZ1WqSCavyOHpK-aYKdyfZPES1smDDtyoR8ZJ3xq_h7CFcX3kc0PyTXhJ



Scale = 1/31.4

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.25 2.00
C	TTW-p	MT20	4.0	4.0	2.25 2.00
D	TMVW+p	MT20	4.0	4.0	1.25 2.00
F	BMV1+p	MT20	3.0	4.0	
F	BMV1+p	MT20	4.0	9.0	
G	BMV1+p	MT20	3.0	4.0	

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
G	787	0	787	0	0
E	662	0	662	0	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
G	555	377	0	0	0	0	177	0
E	468	307	0	0	0	0	161	0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0.35	F-C	-9 100
B-C	-488 0	B-F	0 412
C-D	-488 0	F-D	0 412
G-B	-745 0		
E-D	-619 0		
G-F	0.0		
F-E	0.0		

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN/C

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 (0.40")
CALCULATED VERT. DEFL.(LL)= L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.40")
CALCULATED VERT. DEFL.(TL)= L/999 (0.03")

CSI: TC=0.43/1.00 (B-C:1), BC=0.19/1.00 (E-F:4), WB=0.09/1.00 (D-F:1), 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

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

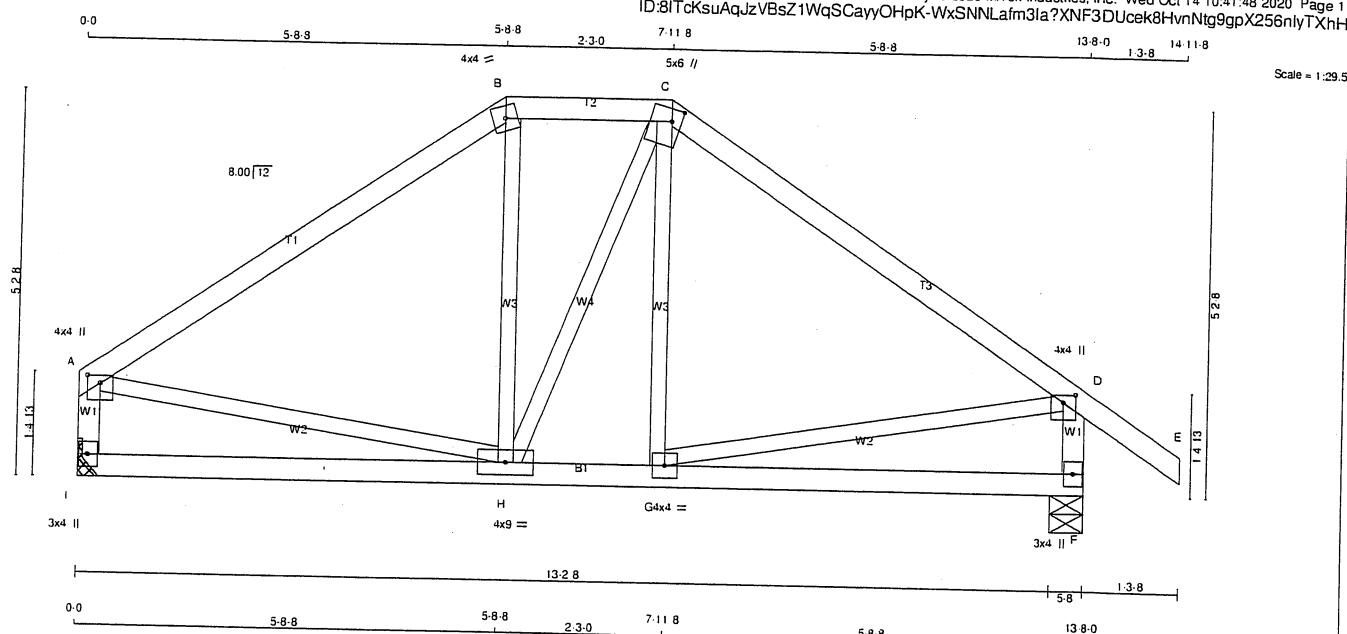
JSI GRIP= 0.57 (D) (INPUT = 0.90)
JSI METAL= 0.17 (D) (INPUT = 1.00)



Structural component only
DWG# T-2022162

JOB NAME 406513	TRUSS NAME T12	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 10:41:48 2020 Page 1
 ID:8ITcKsuAqJzVBsZ1WqSCayyOHpK-WxSNNLafm3la?XNF3DUcek8Hvntg9gpX256nlyTXhH



LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	4.0	1.25 2.00
B	TTW-m	MT20	4.0	4.0	
C	TTWW+m	MT20	5.0	6.0	2.00 1.50
D	TMVW+p	MT20	4.0	4.0	1.25 2.00
F	BMV1+p	MT20	3.0	4.0	
G	BMWW-t	MT20	4.0	4.0	
H	BMWW-t	MT20	4.0	9.0	
I	BMV1+p	MT20	3.0	4.0	

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
I	753	0	753	0	MECHANICAL	
F	879	0	879	0	5-8	5-8

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

UNFACTORED REACTIONS

1ST LCASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
I	533	350 0	0 0	0 0	0 0	183 0	0 0
F	619	420 0	0 0	0 0	0 0	200 0	0 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX.	FACTORED	FACTORED			MEMB.	MAX.	FACTORED	
		FORCE	VERT.	LOAD	LC1			FORCE	MAX
		(LBS)	(PLF)	CSI	(LC)		UNBRAC	(LBS)	CSI (LC)
FR-TO			FROM	TO		FR-TO	LENGTH		
A-B	-628	0	-91.8	-91.8	0.39 (1)	H-B	6.25	-16	57 0.02 (4)
B-C	-522	0	-91.8	-91.8	0.06 (1)	H-C	6.25	0	2 0.00 (4)
C-D	-628	0	-91.8	-91.8	0.39 (1)	G-C	6.25	-17	55 0.02 (4)
D-E	0	35	-91.8	-91.8	0.12 (1)	A-H	10.00	0	531 0.12 (1)
I-A	-708	0	0.0	0.0	0.07 (1)	G-D	7.81	0	531 0.12 (1)
F-D	-834	0	0.0	0.0	0.09 (1)				
I-H	0	0	-18.5	-18.5	0.13 (4)		10.00		
H-G	0	521	-18.5	-18.5	0.17 (4)		10.00		
G-F	0	0	-18.5	-18.5	0.13 (4)		10.00		

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.46")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
 ALLOWABLE DEFL.(TL)= L/360 (0.46")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.39/1.00 (A-B:1), BC=0.17/1.00 (G-H:4), WB=0.12/1.00 (A-H:1), SS=0.17/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

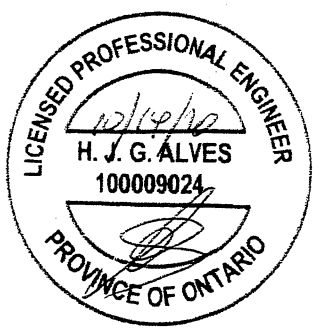
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.67 (D) (INPUT = 0.90)
 JSI METAL = 0.20 (D) (INPUT = 1.00)

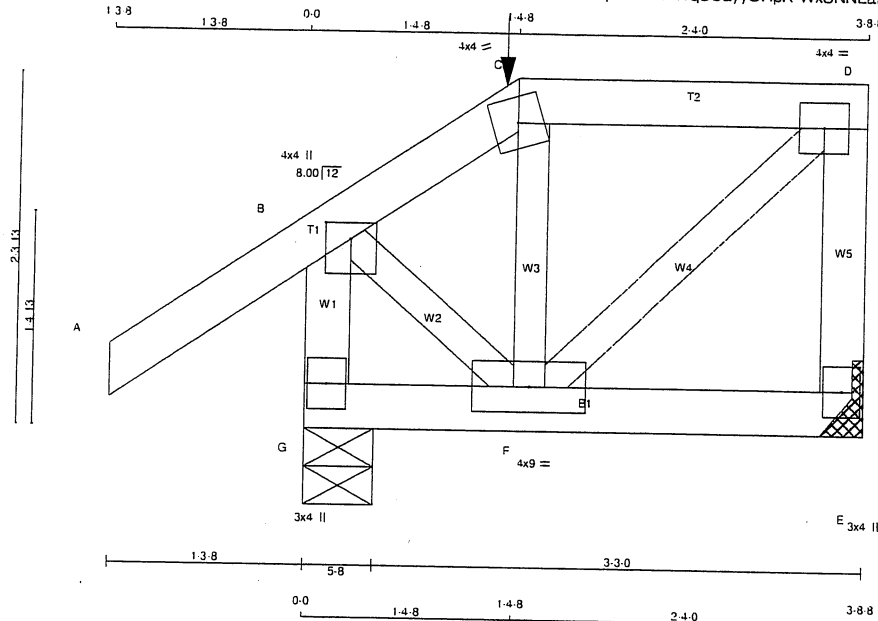


Structural component only
 DWG# T-2022165

JOB NAME 406513	TRUSS NAME T13	QUANTITY 2	PLY 2	JOB DESC. ROYAL PINE HOMES	TRUSS DESC.	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	--------------------------------------	-------------	----------

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 10:41:48 2020 Page 1
ID:8ITcKsuAqJzVBsZ1WqSCayyOHpK-WxSNLafm3la?XNF3DUcek8KanP4gA3pX256nlyTXhH



Scale = 1:14.4

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

ALL WEBS	2x3	DRY	No.2
EXCEPT			

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C	12	SIDE(71.9)
C - D	12	SIDE(86.4)
D - E	12	TOP
G - B	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
G - E	12	SIDE(19.6)
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 TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25 2.00

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	UPLIFT	IN-SX
E	527	0	527	0	MECHANICAL
G	1028	0	1028	0	5-8

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

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	374	238	37	0	0	0	0
G	719	517	0	0	0	202	0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 101	-264.5 -264.5	0.22 (5)	F-C	-193 111	0.02 (1)	
B-C	-333 0	-264.5 -264.5	0.21 (5)	F-D	-14 245	0.03 (1)	
C-D	-181 11	-264.5 -264.5	0.13 (1)	B-F	-20 237	0.03 (1)	
E-D	-472 0	0.0 0.0	0.03 (1)				
G-B	-996 0	0.0 0.0	0.06 (1)				
G-F	0 0	-53.5 -53.5	0.03 (4)				
F-E	0 0	-53.5 -53.5	0.03 (4)				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
C	1-4-8	-2	-2	---	FRONT	VERT	---	C1
C	1-4-8	-7	-7	---	FRONT	VERT	---	C1

CONNECTION REQUIREMENTS

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 4 X 18 = 74 lb [M]

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

*** NON STANDARD GIRDER ***
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 086-09, CSA 086-14
TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS
OVERHANG NOT TO BE ALTERED OR CUT OFF

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

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

CSI: TC=0.22/1.00 (A-B:5), BC=0.03/1.00 (E-F:4), WB=0.03/1.00 (D-F:1), SS=0.15/1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

CONTINUED ON PAGE 2



Structural component only
DWG# T-2022166 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
406513	T13	2	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 10:41:48 2020 Page 2
ID:8ITcKsuAqJzVBsZ1WqSCavvOHpK-WxSNNLafm3la?XNF3DUcek8KanP4qA3pX256nlyTXhH

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
C	TTW-m	MT20	4.0	4.0		
D	TMVW-t	MT20	4.0	4.0		
E	BMV1+p	MT20	3.0	4.0		
F	BMVWW-t	MT20	4.0	9.0		
G	BMV1+p	MT20	3.0	4.0		

JSI GRIP = 0.35 (B) (INPUT = 0.90)
JSI METAL = 0.10 (B) (INPUT = 1.00)



Structural component only
DWG# T-2022166 3/12

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
406513	T14	2	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 10:41:49 2020 Page 2
ID:8ITcKsuAqJzVBsZ1WqSCavyOHpK- 7?mahbIXNQRdgvRdx?rAyhVKBIGPdxzliqgJkyTXhG

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
C	TTW-m	MT20	4.0	4.0		
D	TMVW-t	MT20	4.0	4.0		
E	BMV1+p	MT20	3.0	4.0		
F	BMVWW-t	MT20	4.0	9.0		
G	BMV1+p	MT20	3.0	4.0		

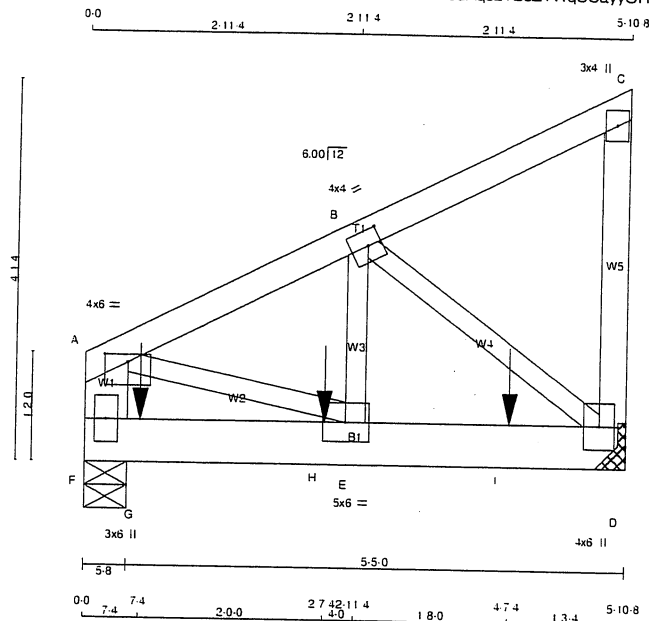


Structural component only
DWG# T-2022167 *72*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
406513	T15	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 10:41:50 2020 Page 1
ID:8ITcKsuAqJzVBsZ1WqSCayyOHpK-SKZ8o1cwlhYIEqXeBeW4j9DjYb2p82j6_MaDsAyTXhF



Scale = 1:23.7

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
D - C	2x4	DRY	No.2	SPF
F - A	2x6	DRY	No.2	SPF
F - D	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	TOP
C - D	12	TOP
F - A	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F - D	12	SIDE (183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A	TMVW-p	MT20	4.0	6.0	1.00 3.00
B	TMVW-t	MT20	4.0	4.0	2.00 1.75
C	TMV-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	REQRD BRG
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
D	1179	0	1179	0	0	MECHANICAL
F	1401	0	1401	0	0	5-8

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

UNFACTORED REACTIONS

1ST LCASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
D	832	559 0	0 0	0 0	0 0	273 0	0 0
F	988	663 0	0 0	0 0	0 0	325 0	0 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		
A-B	-1095	0	-91.8	-91.8
B-C	-12	0	-91.8	-91.8
D-C	-109	0	0	0
F-A	-865	0	0	0
F-G	0	0	-18.5	-18.5
G-H	0	0	-18.5	-18.5
H-E	0	0	-18.5	-18.5
E-I	0	990	-18.5	-18.5
I-D	0	990	-18.5	-18.5

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	7-4	-456	-456	---	FRONT	VERT	TOTAL	---	C1
H	2-7.4	-453	-453	---	FRONT	VERT	TOTAL	---	C1
I	4-7.4	-453	-453	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 29 = 58 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.6	PSF
	DL	=	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

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

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL)= L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL)= L/999 (0.01")

CSI: TC=0.06/1.00 (A-B:1), BC=0.21/1.00 (D-E:1), WB=0.15/1.00 (B-D:1), SSI=0.27/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 = 0.64 (B) (INPUT = 0.90)

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



Structural component only
DWG# T-2022168 1/2

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
406513	T15	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MITek Industries, Inc. Wed Oct 14 10:41:50 2020 Page 2
ID:8ITcKsuAgJzVBsZ1WqSCayvOHpK-SKZ8o1cwlhYIEqXeBeW4i9DiYb2p82i6 MaDsAvTXhF

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
D	BMVW1+p	MT20	4.0	6.0		
E	BMWW-t	MT20	5.0	6.0		
F	BMV1+p	MT20	3.0	6.0		

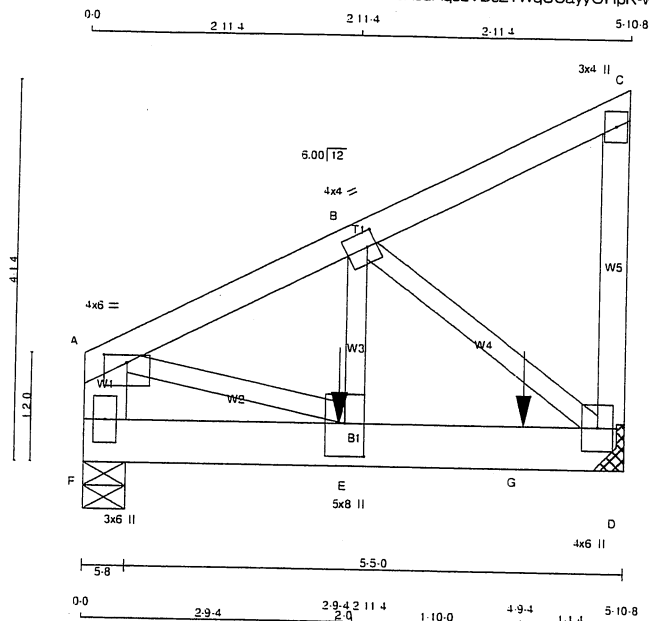


Structural component only
DWG# T-2022168 *2/2*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
406513	T15Z	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 10:41:51 2020 Page 1
ID:8ITcKsuAqJzVBsZ1WqSCayyOHpK-wW7W?NdY3_g9s_6qIM1JFNmuG?NctUhGD0JnOcyTXhE



Scale = 1:23.7

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
D - C	2x4	DRY	No.2	SPF
F - A	2x6	DRY	No.2	SPF
F - D	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	TOP
C - D	12	TOP
F - A	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F - D	12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
B - E	3	SIDE(267.3)
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	TMVW-p	MT20	4.0	6.0	1.00	3.00
B	TMVW-t	MT20	4.0	4.0	2.00	1.25

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
D	1784	0	1784	0
F	1325	0	1325	0

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

UNFACTORED REACTIONS

1ST LCASE	MAX. MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
D	1259	841.0	0.0	0.0	0.0	418.0	0.0
F	936	622.0	0.0	0.0	0.0	313.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	W E B S	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
A-B	-1710.0	-91.8 -91.8 0.06 (1)	E-B	0 1631 0.20 (1)
B-C	-10.0	-91.8 -91.8 0.05 (1)	B-D	-1935.0 0.23 (1)
D-C	-113.0	0.0 0.0 0.01 (1)	A-E	0 1591 0.20 (1)
F-A	-1288.0	0.0 0.0 0.05 (1)		
F-E	0.0	-18.5 -18.5 0.01 (1)		
E-G	0 1538	-18.5 -18.5 0.30 (1)		
G-D	0 1538	-18.5 -18.5 0.30 (1)		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	2-9-4	-1219	-1219	---	BACK	VERT	TOTAL	---	C1
G	4-9-4	-518	-518	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 29 = 58 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.6	PSF
	DL	=	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 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.06/1.00 (A-B:1), BC=0.30/1.00 (D-E:1), WB=0.23/1.00 (B-D:1), SSI=0.16/1.00 (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)	(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= 0.82 (B) (INPUT = 0.90)
JSI METAL= 0.35 (D) (INPUT = 1.00)



Structural component only
DWG# T-2022169

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
406513	T15Z	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 10:41:51 2020 Page 2
ID:8ITcKsuAqJzVBsZ1WqSCayyOHpK-wW7W?NdY3_g9s_6qlM1JFNmuG?NctUhgD0JnOcyTXhE

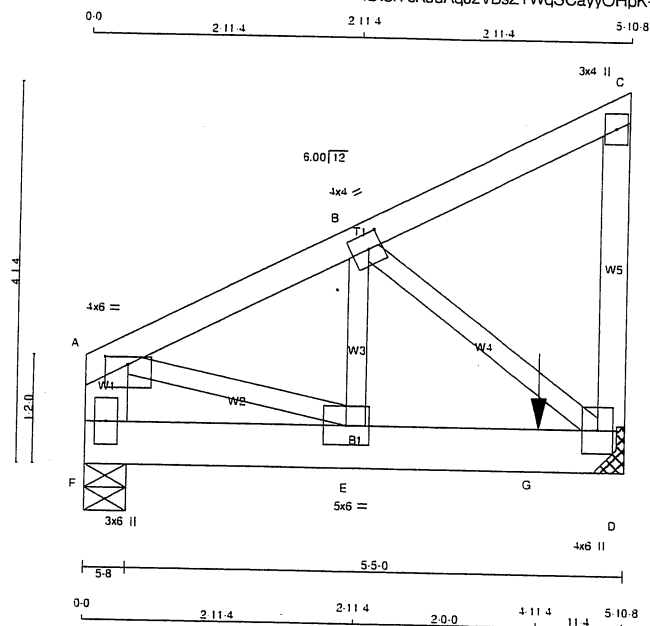
PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
C	TMV+p	MT20	3.0	4.0		
D	BMVW1+p	MT20	4.0	6.0		
E	BMVW+i	MT20	5.0	8.0	4.25	2.50
F	BMV1+p	MT20	3.0	6.0		



Structural component only
DWG# T-2022169 *2/2*

JOB NAME 406514	TRUSS NAME T15Z2	QUANTITY 2	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



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

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C 1	12	TOP
C-D 1	12	TOP
F-A 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F-D 2	12	SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY

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

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

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

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
A	TMVW-p	MT20	4.0	6.0	1.00 3.00
B	TMVW-t	MT20	4.0	4.0	2.00 1.75
C	TMV-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	UP	DOWN
D	1541	0	0	0
F	555	0	0	0

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
D	1085	743.0	0.0	0.0	0.0	342.0	0.0
F	392	263.0	0.0	0.0	0.0	129.0	0.0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 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)	MEMB.	MAX. FACTORED FORCE (LBS)
A-B	-721.0	E-B	0.503
B-C	-113.0	B-D	-826.0
D-C	-106.0	A-E	0.679
F-A	-608.0		
F-E	0.0		
E-G	0.657		
G-D	0.657		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	4-11.4	-1018	-1018	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 4 X 29 = 117 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.06/1.00 (A-B:1), BC=0.36/1.00 (D-E:1)
WB=0.10/1.00 (B-D:1), SS=0.31/1.00 (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 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.34 (B) (INPUT = 0.90)
JSI METAL = 0.15 (D) (INPUT = 1.00)



Structural component only
DWG# T-2022170

CONTINUED ON PAGE 2

JOB NAME 406514	TRUSS NAME T15Z2	QUANTITY 2	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 10:59:55 2020 Page 2
ID:8ITcKsuAgJzVBsZ1WqSCayvOHpK-B3dJW1kVn2ELvazAF0UWBzf7hzKDsm6pUqv7RnyTXQI

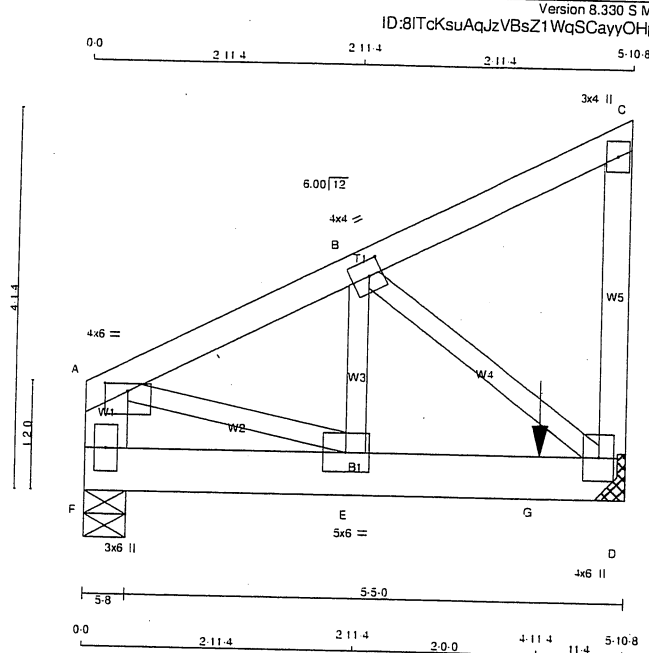
PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
D	BMVW1+p	MT20	4.0	6.0		
E	BMVW-t	MT20	5.0	6.0		
F	BMV1+p	MT20	3.0	6.0		



Structural component only
DWG# T-2022170 *3/2*

JOB NAME 413426	TRUSS NAME T15Z3	QUANTITY 2	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



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

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C 1 12		TOP
C - D 1 12		TOP
F - A 2 12		TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F - D 2 12		SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1 6		

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A TMVW-p	MT20	4.0	6.0	1.00	3.00
B TMVW-w	MT20	4.0	4.0	2.00	1.75
C TMV-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		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
D	1125	0	1125	0	0	MECHANICAL			
F	476	0	476	0	0	5-8			

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

UNFACTORED REACTIONS

1ST LCASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
D	793	533 0	0 0	0 0	0 0	261 0	0 0
F	336	223 0	0 0	0 0	0 0	113 0	0 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 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	-565 0	-91.8	-91.8 0.07 (1)	6.25	E-B	0 325	0.04 (1)
B-C	-13 0	-91.8	-91.8 0.06 (1)	6.25	B-D	-651 0	0.08 (1)
D-C	-105 0	0.0	0.0 0.01 (1)	7.81	A-E	0 535	0.07 (1)
F-A	-500 0	0.0	0.0 0.02 (1)	7.81			
F-E	0 0	-18.5	-18.5 0.06 (1)	10.00			
E-G	0 517	-18.5	-18.5 0.25 (1)	10.00			
G-D	0 517	-18.5	-18.5 0.25 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	4-11-4	-671	-671		BACK	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 4 X 29 = 117 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, 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 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.07/1.00 (A-B:1), BC=0.25/1.00 (D-E:1), WB=0.08/1.00 (B-D:1), SSI=0.21/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 = 0.26 (D) (INPUT = 0.90)
JSI METAL = 0.12 (D) (INPUT = 1.00)



Structural component only
DWG# T-2022184 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
413426	T15Z3	2	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 11:24:28 2020 Page 2
ID:8ITcKsuAqJzVBsZ1WqSCavyOHpK-ZR7AfIZSudqL7x4G1tPxObArwk4eUz5dCKDaevyTX3H

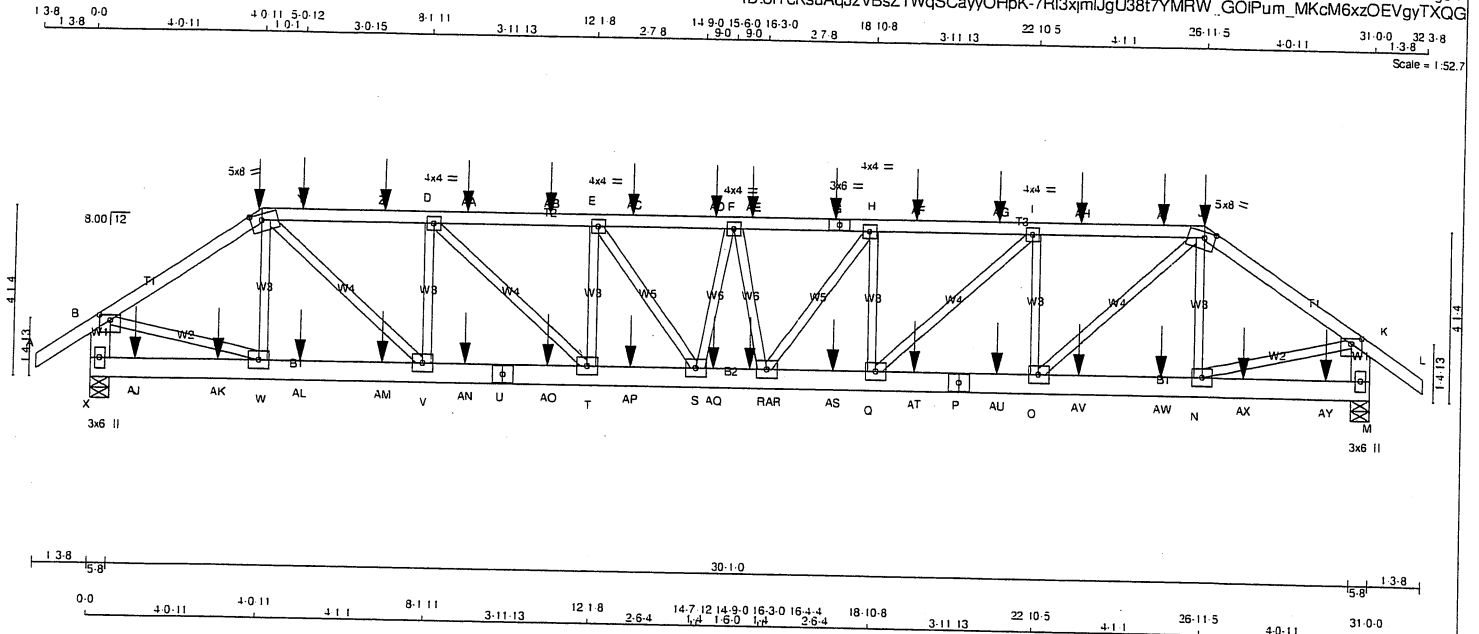
PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
BMVW1+p	MT20	4.0	6.0			
BMVW1-t	MT20	5.0	6.0			
BMV1+p	MT20	3.0	6.0			



Structural component only
DWG# T-2022184 2/2

JOB NAME 406514	TRUSS NAME T20	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.330 S May 6 2020 Mitek Industries, Inc. Wed Oct 14 10:59:57 2020 Page 1	
ID:8ITcKsuAqJzVBsZ1WqSCayyOHpK-7RI3xjmlUgU38t7YMRW_GOIPum_MKcM6xzOEvgYTXQG				Scale = 1:52.7	



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - G	2x4	DRY	No.2
G - J	2x4	DRY	No.2
J - L	2x4	DRY	No.2
X - B	2x6	DRY	No.2
M - K	2x6	DRY	No.2
X - U	2x6	DRY	No.2
U - P	2x6	DRY	No.2
P - M	2x6	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C	12	SIDE(61.0)
C-G	12	SIDE(61.0)
G-J	12	SIDE(61.0)
J-L	12	SIDE(61.0)
X-B	2	TOP
M-K	2	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
X-U	2	SIDE(0.0)
U-P	2	SIDE(0.0)
P-M	2	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.

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
X	3011	0	3011	0	0
M	3012	0	3012	0	0

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED	2129	1401	0	0	0	0
X		2129	1402	0	0	0	0
M							

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.76 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS			WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX CSI (LC)
FR-TO		FROM TO	LENGTH	FR-TO		
A-B	0 35	-91.8	-91.8 0.07 (1)	10.00	W-C	-540 0 0.07 (1)
B-C	-3497 0	-91.8	-91.8 0.20 (1)	4.83	N-J	-541 0 0.07 (1)
C-Y	-4805 0	-91.8	-91.8 0.29 (1)	4.14	B-W	0 2987 0.37 (1)
Y-Z	-4805 0	-91.8	-91.8 0.29 (1)	4.14	N-K	0 2988 0.37 (1)
Z-D	-4805 0	-91.8	-91.8 0.29 (1)	4.14	E-S	0 399 0.05 (1)
D-AA	-5832 0	-91.8	-91.8 0.34 (1)	3.76	R-H	0 397 0.05 (1)
AA-AB	-5832 0	-91.8	-91.8 0.34 (1)	3.76	T-E	-846 0 0.11 (1)
AB-E	-5832 0	-91.8	-91.8 0.34 (1)	3.76	Q-H	-846 0 0.11 (1)
E-AC	-6060 0	-91.8	-91.8 0.25 (1)	3.80	S-F	-280 0 0.04 (1)
AC-AD	-6060 0	-91.8	-91.8 0.25 (1)	3.80	F-R	-278 0 0.04 (1)
AD-F	-6060 0	-91.8	-91.8 0.25 (1)	3.80	D-T	0 1407 0.17 (1)
F-AE	-6060 0	-91.8	-91.8 0.24 (1)	3.80	C-V	0 2589 0.32 (1)
AE-G	-6060 0	-91.8	-91.8 0.24 (1)	3.80	V-D	-1626 0 0.21 (1)
G-H	-6060 0	-91.8	-91.8 0.24 (1)	3.80	C-J	0 2590 0.32 (1)
H-AF	-5834 0	-91.8	-91.8 0.34 (1)	3.76	Q-I	0 1407 0.17 (1)
AF-AG	-5834 0	-91.8	-91.8 0.34 (1)	3.76	O-I	-1626 0 0.21 (1)
AG-I	-5834 0	-91.8	-91.8 0.34 (1)	3.76		
I-AH	-4807 0	-91.8	-91.8 0.29 (1)	4.14		
AH-AI	-4807 0	-91.8	-91.8 0.29 (1)	4.14		
AI-J	-4807 0	-91.8	-91.8 0.29 (1)	4.14		
J-K	-3498 0	-91.8	-91.8 0.20 (1)	4.83		
K-L	0 35	-91.8	-91.8 0.07 (1)	10.00		
X-B	-2955 0	0.0	0.0 0.11 (1)	7.81		
M-K	-2956 0	0.0	0.0 0.11 (1)	7.81		

X-AJ	0 0	-18.5	-18.5 0.03 (4)	10.00
AJ-AK	0 0	-18.5	-18.5 0.03 (4)	10.00
AK-W	0 0	-18.5	-18.5 0.03 (4)	10.00
W-AL	0 2890	-18.5	-18.5 0.21 (1)	10.00
AL-AM	0 2890	-18.5	-18.5 0.21 (1)	10.00
AM-V	0 2890	-18.5	-18.5 0.21 (1)	10.00
V-AN	0 4806	-18.5	-18.5 0.35 (1)	10.00
AN-U	0 4806	-18.5	-18.5 0.35 (1)	10.00
U-AO	0 4806	-18.5	-18.5 0.35 (1)	10.00
AO-T	0 4806	-18.5	-18.5 0.35 (1)	10.00
T-AP	0 5832	-18.5	-18.5 0.42 (1)	10.00
AP-S	0 5832	-18.5	-18.5 0.42 (1)	10.00
S-AQ	0 6118	-18.5	-18.5 0.45 (1)	10.00
AQ-AR	0 6118	-18.5	-18.5 0.45 (1)	10.00
AR-R	0 6118	-18.5	-18.5 0.45 (1)	10.00
R-AS	0 5834	-18.5	-18.5 0.42 (1)	10.00
AS-Q	0 5834	-18.5	-18.5 0.42 (1)	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

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

*** NON STANDARD GIRDER ***
ADDT. 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 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 (1.03")
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
ALLOWABLE DEFL.(TL) = L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/999 (0.28")

CSI: TC=0.34/1.00 (H-I); BC=0.45/1.00 (R-S); WB=0.37/1.00 (K-N); SSI=0.15/1.00 (I-J);

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(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 = 0.85 (C) (INPUT = 0.90)
JSI METAL = 0.46 (P) (INPUT = 1.00)



Structural component only
DWG# T-2022171 1/1

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 10:59:57 2020 Page 2

ID:8ITcKsuAqJzVBsZ1WqSCayvOHpK-7Ri3ximiJqU38t7YMRW GOIPum MKcM6xzOEvgqTXQG

PLATES (table is in inches)						LOADING									
JT	TYPE	PLATES	W	LEN	Y	X	TOTAL LOAD CASES: (4)								
B	TMVW-p	MT20	5.0	6.0	1.50	3.00	CHORDS								
C	TTWW-m	MT20	5.0	8.0	1.75	3.25	MEMB. MAX. FACTORED FORCE (LBS)								
D, E, F, H, I							FACTORED VERT. LOAD LC1 (PLF)								
D	TMVW-t	MT20	4.0	4.0			WEBS								
G	TS-t	MT20	3.0	6.0			MEMB. MAX. FACTORED FORCE (LBS)								
J	TTWW-m	MT20	5.0	8.0	1.75	3.25	MAX. FACTORED VERT. LOAD LC1 (PLF)								
K	TMVW-p	MT20	5.0	6.0	1.50	3.00	CS1 (LC)								
M	BMV1+p	MT20	3.0	6.0			UNBRAC LENGTH FR-TO								
N, O, Q, R, S, T, V, W							FR-TO								
N	BMVW-t	MT20	5.0	6.0			Q-AT	0	4807	-18.5	-18.5	0.35 (1)	10.00		
P	BS-t	MT20	5.0	6.0			AT-P	0	4807	-18.5	-18.5	0.35 (1)	10.00		
U	BS-t	MT20	5.0	6.0			P-AU	0	4807	-18.5	-18.5	0.35 (1)	10.00		
X	BMV1+p	MT20	3.0	6.0			AU-O	0	4807	-18.5	-18.5	0.35 (1)	10.00		
							O-AV	0	2890	-18.5	-18.5	0.21 (1)	10.00		
							AV-AW	0	2890	-18.5	-18.5	0.21 (1)	10.00		
							AW-N	0	2890	-18.5	-18.5	0.21 (1)	10.00		
							N-AX	0	0	-18.5	-18.5	0.03 (4)	10.00		
							AX-AY	0	0	-18.5	-18.5	0.03 (4)	10.00		
							AY-M	0	0	-18.5	-18.5	0.03 (4)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	4-0-11	-40	-40	---	FRONT	VERT	DEAD	---	C1
C	4-0-11	-169	-169	---	FRONT	VERT	SNOW	---	C1
G	17-11-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
J	26-11-5	-40	-40	---	FRONT	VERT	DEAD	---	C1
J	26-11-5	-169	-169	---	FRONT	VERT	SNOW	---	C1
Y	5-0-12	-76	-76	---	FRONT	VERT	TOTAL	---	C1
Z	7-0-12	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AA	9-0-12	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AB	11-0-12	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AC	13-0-12	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AD	15-0-12	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AE	15-11-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AF	19-11-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AG	21-11-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AH	23-11-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AI	25-11-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AJ	1-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AK	3-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AL	5-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AM	7-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AN	9-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AO	11-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AP	13-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AQ	15-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AR	15-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AS	17-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AT	19-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AU	21-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AV	23-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AW	25-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AX	27-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AY	29-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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



JOB NAME 406514	TRUSS NAME T20Z	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 10:59:58 2020 Page 2
ID:8ITcKsuAqJzVBsZ1WqSCavOHpK-beJS83nN4zdwrm1ikw81DpbHXKAEQ3?afAd7n26yTXQF

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	Edge	
C	TTWW+m	MT20	7.0	8.0	Edge	2.50
D	TMWW-t	MT20	5.0	6.0		
E, F, H						
E	TMWW-t	MT20	4.0	4.0		
G	TS-t	MT20	3.0	8.0		
I	TMWW-t	MT20	5.0	6.0		
J	TTWW+m	MT20	7.0	8.0	Edge	2.50
K	TMVW-p	MT20	5.0	8.0	Edge	
M	BMV1+p	MT20	3.0	6.0		
N	BMWW-t	MT20	5.0	8.0	2.50	3.75
O	BMWW-t	MT20	5.0	6.0	2.50	2.00
P	BS-t	MT20	5.0	6.0		
Q, R, S, T						
Q	BMWW-t	MT20	5.0	6.0		
U	BS-t	MT20	5.0	6.0		
V	BMWW-t	MT20	5.0	6.0	2.50	2.00
W	BMWW-t	MT20	5.0	8.0	2.50	3.75
X	BMV1+p	MT20	3.0	6.0		

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

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
AB	15-0-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AC	27-11-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AD	29-11-4	-21	-21	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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



Structural component only
DWG# T-2022172 *ML*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
413426	T20Z2	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 11:24:29 2020 Page 2
ID:8ITcKsuAqJzVBsZ1WqSCayvOHpK-1dhYI2a5fyCI5fSbawAxoixk8lpDjgnQ z7ALyTX3G

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	Edge	
C	TTWW+m	MT20	7.0	8.0	Edge	2.50
D	TMWW-t	MT20	5.0	6.0		
E, F, H						
E	TMWW-t	MT20	4.0	4.0		
G	TS-t	MT20	3.0	6.0		
I	TMWW-t	MT20	5.0	6.0		
J	TTWW+m	MT20	7.0	8.0	Edge	2.50
K	TMVW-p	MT20	5.0	8.0	Edge	
M	BMV1+p	MT20	3.0	6.0		
N	BMWW-t	MT20	5.0	6.0	2.50	2.00
O	BMWW-t	MT20	5.0	6.0	2.50	2.25
P	BS-t	MT20	5.0	6.0		
Q, R, S, T						
Q	BMWW-t	MT20	5.0	6.0		
U	BS-t	MT20	5.0	6.0		
V	BMWW-t	MT20	5.0	6.0	2.50	2.25
W	BMWW-t	MT20	5.0	6.0	2.50	2.00
X	BMV1+p	MT20	3.0	6.0		

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

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
AB	15-0-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AC	16-10-8	-778	-778	---	BACK	VERT	TOTAL	---	C1
AD	27-11-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AE	29-11-4	-21	-21	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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



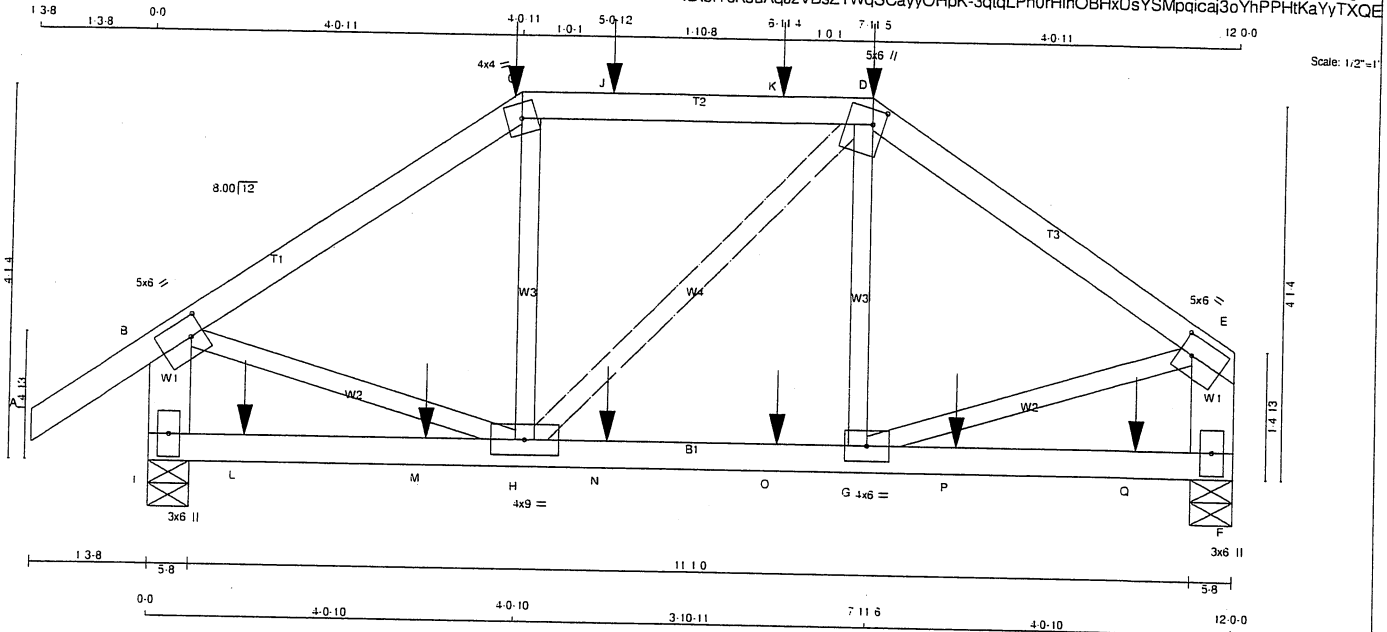
Structural component only
DWG# T-2022185 72

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
406514	T21	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 10:59:59 2020 Page 1

ID:8ITcKsuAqJzVBsZ1WqSCayyOHpk-3qtqLPn0rHnOBHxUsYSMPqicaj3oYhPPHtKaYyTXQE



Scale: 1/2"=1'

LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - C 2x4 DRY No.2

C - D 2x4 DRY No.2

D - E 2x4 DRY No.2

I - B 2x6 DRY No.2

F - E 2x6 DRY No.2

I - F 2x4 DRY No.2

ALL WEBS 2x3 DRY No.2

EXCEPT

SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	6.0	2.50	1.75
C	TTW-m	MT20	4.0	4.0		
D	TTWW+m	MT20	5.0	6.0	2.00	1.50
E	TMVW-t	MT20	5.0	6.0	2.50	1.75
F	BMV1+p	MT20	3.0	6.0		
G	BMVW-t	MT20	4.0	6.0		
H	BMVWW-t	MT20	4.0	9.0		
I	BMV1+p	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	HORZ	DOWN	HORZ
I	1284	0	1284	0
F	1158	0	1158	0

UNFACTORED REACTIONS

JT	1ST LCASE	MAX.	MIN.	COMPONENT REACTIONS
	COMBINED	SNOW	LIVE	PERM. LIVE
I	905	610	0	0
F	818	540	0	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 = 5.43 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
		FORCE	VERT. LOAD		FORCE
		(LBS)	(PLF)		(LBS)
FR-TO			FROM TO	LENGTH FR-TO	
A-B	0.35	-91.8	-91.8	0.14 (1)	10.00
B-C	-1187	0	-91.8	0.32 (1)	5.43
C-J	-982	0	-91.8	0.45 (1)	5.57
J-K	-982	0	-91.8	0.45 (1)	5.57
K-D	-982	0	-91.8	0.45 (1)	5.57
D-E	-1187	0	-91.8	0.32 (1)	5.43
E-F	-1229	0	0.0	0.09 (1)	7.81
F-E	-1103	0	0.0	0.08 (1)	7.81
I-L	0	0	-18.5	-18.5	0.13 (4)
L-M	0	0	-18.5	-18.5	0.13 (4)
M-H	0	0	-18.5	-18.5	0.13 (4)
H-N	0	983	-18.5	-18.5	0.24 (1)
N-O	0	983	-18.5	-18.5	0.24 (1)
O-G	0	983	-18.5	-18.5	0.24 (1)
G-P	0	0	-18.5	-18.5	0.13 (4)
P-Q	0	0	-18.5	-18.5	0.13 (4)
Q-F	0	0	-18.5	-18.5	0.13 (4)

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	4-0-11	-40	-40	---	FRONT	VERT	DEAD	---	C1
C	4-0-11	-171	-171	---	FRONT	VERT	SNOW	---	C1
D	7-11-5	-40	-40	---	FRONT	VERT	DEAD	---	C1
D	7-11-5	-171	-171	---	FRONT	VERT	SNOW	---	C1
J	5-0-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
K	6-11-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
L	1-0-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
M	3-0-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
N	5-0-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
O	6-11-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
P	8-11-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
Q	10-11-4	-21	-21	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.40")
CALCULATED VERT. DEFL.(LL)= L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.40")
CALCULATED VERT. DEFL.(TL)= L/999 (0.03")

CSI: TC=0.45/1.00 (C-D:1), BC=0.24/1.00 (G-H:1), WB=0.25/1.00 (E-G:1), SSI=0.25/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
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 = 0.79 (E) (INPUT = 0.90)
JSI METAL = 0.34 (B) (INPUT = 1.00)

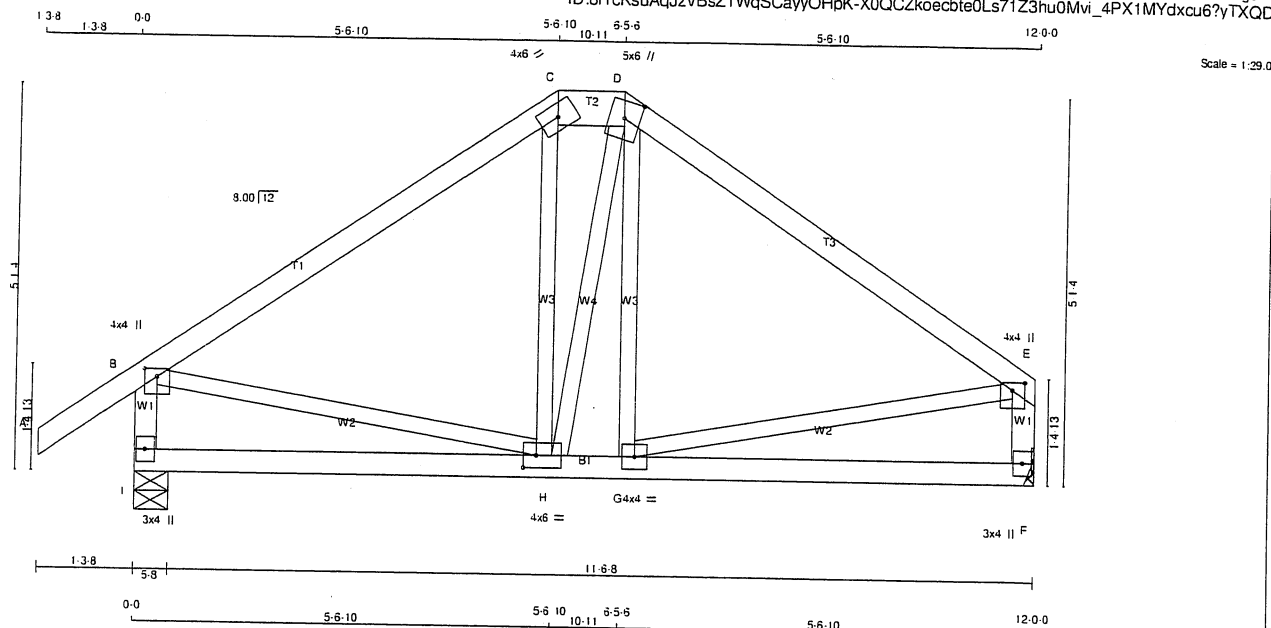


Structural component only
DWG# T-2022173

JOB NAME 406514	TRUSS NAME T22	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
--------------------	-------------------	---------------	----------	-------------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MTEK Industries, Inc. Wed Oct 14 11:00:00 2020 Page 1
ID:8ITcKsuAqJzVBsZ1WqSCayyOHpk-X0QCZkoecbte0Ls71Z3hu0Mvi_4PX1MYdxu6?yTXQD



TOTAL WEIGHT = 54 lb
(M/F)

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - D	2x6	DRY	No.2
D - E	2x4	DRY	No.2
I - B	2x4	DRY	No.2
F - E	2x4	DRY	No.2
I - F	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
C	TTW-h	MT20	4.0	6.0		
D	TTWW+m	MT20	5.0	6.0	2.75	2.50
E	TMVW+p	MT20	4.0	4.0	1.25	2.00
F	BMV1+p	MT20	3.0	4.0		
G	BMVW-t	MT20	4.0	4.0		
H	BMVWW-t	MT20	4.0	6.0	2.00	2.00
I	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
I	787	0	787	0
F	662	0	662	0

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
I	555	377	0	0	0	177	0
F	468	307	0	0	0	161	0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	W E B S	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
A-B	0.35	-91.8 -91.8 0.12 (1)	H-C	-14.48 0.02 (4)
B-C	-510 0	-91.8 -91.8 0.37 (1)	H-D	0 6 0.00 (4)
C-D	-426 0	-91.8 -91.8 0.01 (1)	G-D	-17.42 0.01 (4)
D-E	-509 0	-91.8 -91.8 0.37 (1)	B-H	0 434 0.10 (1)
I-B	-745 0	0.0 0.0 0.08 (1)	G-E	0 433 0.10 (1)
F-E	-620 0	0.0 0.0 0.06 (1)		
I-H	0 0	-18.5 -18.5 0.13 (4)		
H-G	0 425	-18.5 -18.5 0.17 (4)		
G-F	0 0	-18.5 -18.5 0.12 (4)		

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.40")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.40")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.37/1.00 (B-C:1), BC=0.17/1.00 (G-H:4), WB=0.10/1.00 (B-H:1), SSI=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

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.58 (B) (INPUT = 0.90)
JSI METAL = 0.17 (B) (INPUT = 1.00)

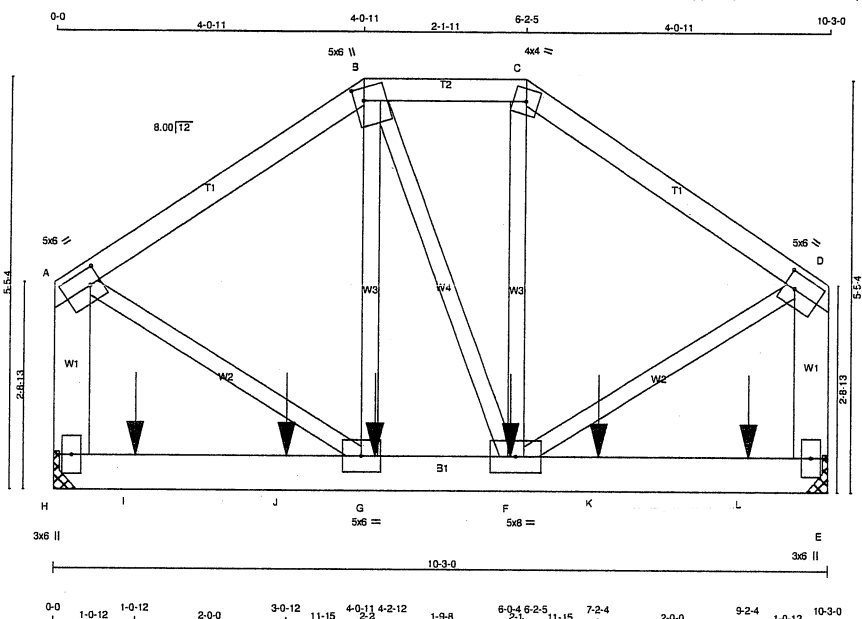


Structural component only
DWG# T-2022174

JOB NAME 406514	TRUSS NAME T23	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Mon Jun 7 08:34:05 2021 Page 1

ID:8ITcKsuAqJzVBsZ1WqSCayyOHpk-CQ4I2QTxxqizPPFY27vui0OhD_IQWMIrLdE9haz8kr0



TOTAL WEIGHT = 59 lb

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

DRY: SEASONED LUMBER.

PLATES (table in inches)					
JT TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	5.0	6.0	2.50 1.75
B	TTWW-m	MT20	5.0	6.0	2.00 1.50
C	TTW-m	MT20	4.0	4.0	
D	TMVW-t	MT20	5.0	6.0	2.50 1.75
E	BMV1+p	MT20	3.0	6.0	
F	BMWWW-t	MT20	5.0	8.0	
G	BMWW-t	MT20	5.0	6.0	
H	BMV1+p	MT20	3.0	6.0	

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQRD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
H	1467	0	1467	0	MECHANICAL
E	1467	0	1467	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
H	1032	705 / 0	0 / 0	0 / 0	0 / 0	0 / 0	327 / 0	0 / 0
E	1032	705 / 0	0 / 0	0 / 0	0 / 0	0 / 0	327 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.87 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT.	LC1	MEMB.	FORCE (LBS)	VERT.	LC1
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	-968 / 0	-91.8	-91.8	G-B	0 / 242	0.06	(1)
B-C	-814 / 0	-91.8	-91.8	B-F	0 / 14	0.00	(1)
C-D	-974 / 0	-91.8	-91.8	F-C	0 / 258	0.06	(1)
H-A	-1176 / 0	0.0	0.0	A-G	0 / 922	0.23	(1)
E-D	-1181 / 0	0.0	0.0	F-D	0 / 927	0.23	(1)
H-I	0 / 0	-18.5	-18.5				
I-J	0 / 0	-18.5	-18.5				
J-G	0 / 0	-18.5	-18.5				
G-F	0 / 809	-18.5	-18.5				
F-K	0 / 0	-18.5	-18.5				
K-L	0 / 0	-18.5	-18.5				
L-E	0 / 0	-18.5	-18.5				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	6-0-4	-214	-214	---	BACK	VERT	TOTAL	---	C1
G	4-2-12	-214	-214	---	BACK	VERT	TOTAL	---	C1
I	1-0-12	-204	-204	---	BACK	VERT	TOTAL	---	C1
J	3-0-12	-214	-214	---	BACK	VERT	TOTAL	---	C1
K	7-2-4	-214	-214	---	BACK	VERT	TOTAL	---	C1
L	9-2-4	-204	-204	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- 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 (0.34")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.34")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.31/1.00 (C-D:1), BC=0.26/1.00 (F-G:1), WB=0.23/1.00 (D-F:1), SS=0.26/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.24 (D) (INPUT = 1.00)

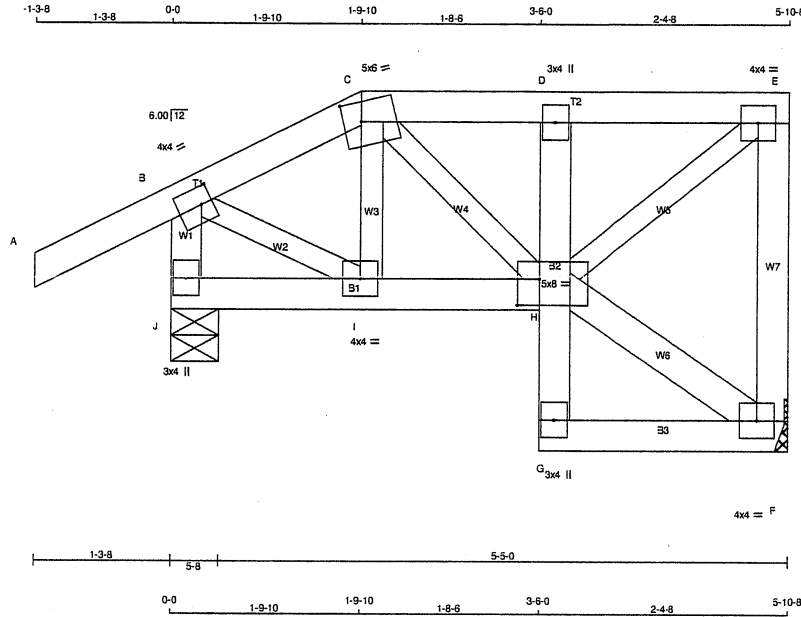


Structural component only
DWG# T-2117970

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
406514	T24	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Mon Jun 7 08:34:06 2021 Page 1
ID:8ITcKsuAqJzVBsZ1WqSCayyOHpk-hcdgGmTZI7qq0ZqkbrQ7rDwvyO15F0bZHziD1z8kr?



Scale = 1:20.8

TOTAL WEIGHT = 2 X 31 = 63 lb

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

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW-t	MT20	4.0	4.0 2.00 1.25
C	TTWW-m	MT20	5.0	6.0 2.25 2.00
D	TMV-p	MT20	3.0	4.0
E	TMVW-t	MT20	4.0	4.0
F	BMVW-t	MT20	4.0	4.0
G	BMV-p	MT20	3.0	4.0
H	BMVWVW-t	MT20	5.0	8.0 3.00 2.50
I	BMVW-t	MT20	4.0	4.0
J	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	REQRD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
F	309	0	309	0	0
J	463	0	463	0	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN.	COMPONENT REACTIONS	DEAD	SOIL
F	219	142 / 0	0 / 0	0 / 0	77 / 0
J	325	228 / 0	0 / 0	0 / 0	97 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MAX. FACTORED		FACTORED		MAX. FACTORED				
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO		FR-TO			
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00	I-C	-54 / 11	0.01 (1)
B-C	-247 / 0	-91.8	-91.8	0.12 (1)	6.25	C-H	0 / 79	0.02 (1)
C-D	-255 / 0	-91.8	-91.8	0.05 (1)	6.25	B-I	0 / 221	0.05 (1)
D-E	-249 / 0	-91.8	-91.8	0.05 (1)	6.25	H-F	-10 / 0	0.00 (1)
F-E	-284 / 0	0.0	0.0	0.05 (1)	7.81	H-E	0 / 319	0.07 (1)
J-B	-447 / 0	0.0	0.0	0.05 (1)	7.81			
J-I	0 / 0	-18.5	-18.5	0.01 (4)	10.00			
I-H	0 / 199	-18.5	-18.5	0.04 (1)	10.00			
G-H	0 / 23	0.0	0.0	0.02 (1)	10.00			
H-D	-223 / 0	0.0	0.0	0.02 (1)	7.81			
G-F	0 / 8	-18.5	-18.5	0.03 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6	PSF
	DL = 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 2015

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL(LL) = L/360 (0.20")
CALCULATED VERT. DEFL(LL) = L/999 (0.00")
ALLOWABLE DEFL(TL) = L/360 (0.20")
CALCULATED VERT. DEFL(TL) = L/999 (0.01")

CS1: TC=0.12/1.00 (A-B:1), BC=0.04/1.00 (H-I:1), WB=0.07/1.00 (E-H:1), SS1=0.09/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX	MIN	MAX	MIN
MT20	650	371	1747
		788	1987
		1873	

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.42 (H) (INPUT = 0.90)
JSI METAL = 0.12 (B) (INPUT = 1.00)

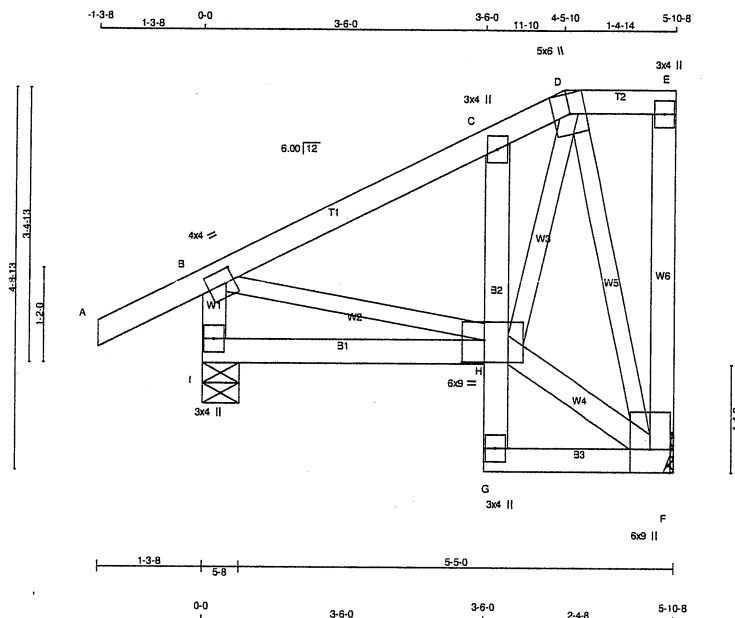


Structural component only
DWG# T-2117971

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
406514	T25	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Mon Jun 7 08:34:07 2021 Page 1
ID:8ITcKsuAqJzVBsZ1WqSCayyOHpK-9pB2T6UB3RyhejPx9YxMNRT3On1p_lukoxjGltZ8kr



Scale = 1:27.3

TOTAL WEIGHT = 2 X 37 = 73 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	4.0	2.00	1.25
C	TMV-p	MT20	3.0	4.0		
D	TTWW+m	MT20	5.0	6.0		
E	TMV-p	MT20	3.0	4.0		
F	BMVWW1+p	MT20	6.0	9.0	Edge	
G	BMV-p	MT20	3.0	4.0		
H	BVMWWW-1	MT20	6.0	9.0	3.25	3.25
I	BMV1+p	MT20	3.0	4.0		

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
F	324	0	324	0	0
I	448	0	448	0	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX / MIN	COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
F	229	150 / 0	0 / 0	0 / 0	0 / 0	79 / 0	0 / 0
I	315	220 / 0	0 / 0	0 / 0	0 / 0	95 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	FORCE (LBS)	MAX. UNBRACED LENGTH	MAX. FACTORED (LC)
FR-TO		FROM	TO	FR-TO			
A-B	0 / 28	-91.8	-91.8 0.12 (1)	B-H	0 / 215	0.05 (1)	
B-C	-221 / 0	-91.8	-91.8 0.14 (1)	H-F	0 / 89	0.01 (1)	
C-D	-266 / 0	-91.8	-91.8 0.14 (1)	H-D	0 / 401	0.09 (1)	
D-E	0 / 0	-91.8	-91.8 0.03 (1)	D-F	-299 / 0	0.10 (1)	
F-E	-63 / 0	0.0	0.0 0.02 (1)				
I-B	-415 / 0	0.0	0.0 0.04 (1)				
I-H	0 / 0	-18.5	-18.5 0.07 (4)				
G-H	0 / 23	0.0	0.0 0.03 (1)				
H-C	-336 / 0	0.0	0.0 0.03 (1)				
G-F	0 / 12	-18.5	-18.5 0.03 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.14/1.00 (B-C:1), BC=0.07/1.00 (H-I:4), WB=0.10/1.00 (D-F:1), SS=0.13/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	650 371	1747 788

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

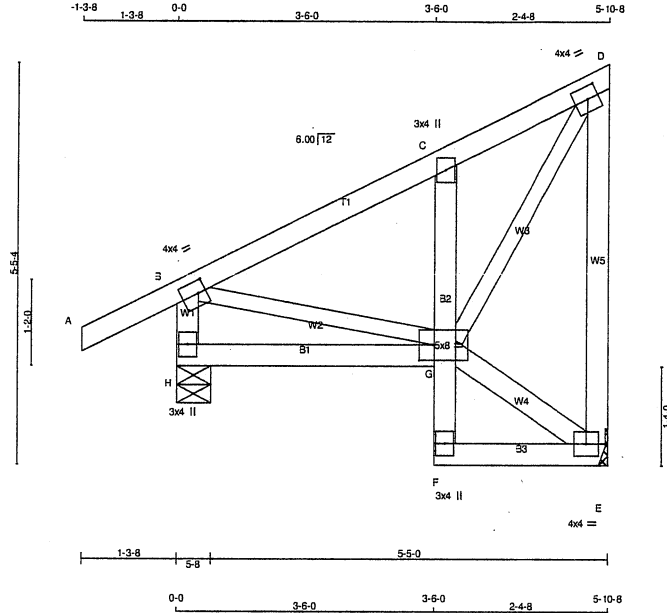
JSI GRIP= 0.35 (B) (INPUT = 0.90)
JSI METAL= 0.12 (B) (INPUT = 1.00)



Structural component only
DWG# T-2117972

JOB NAME 406514	TRUSS NAME T26	QUANTITY 2	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Mon Jun 7 08:34:08 2021 Page 1
ID:8ITcKsuAqJzVBsZ1WqSCayyOHpK-d?QhSVqq14XGtz7jGSbwe0ExBN2jGu1bSpGvz8kqz



TOTAL WEIGHT = 2 X 35 = 70 lb

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

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW-t	MT20	4.0	4.0 2.00 1.25
C	TMV+p	MT20	3.0	4.0
D	TMVW-t	MT20	4.0	4.0 2.00 1.75
E	BMVW1-t	MT20	4.0	4.0
F	BMV+p	MT20	3.0	4.0
G	BMVWW-t	MT20	5.0	8.0 2.50 2.50
H	BMV1+p	MT20	3.0	4.0

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
E	324	0	324	0	MECHANICAL	
H	448	0	448	0	5-8	5-8

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
E	229	150 / 0	0 / 0	0 / 0	0 / 0	79 / 0	0 / 0
H	315	220 / 0	0 / 0	0 / 0	0 / 0	95 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO					FR-TO		
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	B-G	0 / 216	0.05 (1)
B-C	-222 / 0	-91.8	-91.8 0.14 (1)	6.25	G-E	-13 / 0	0.00 (1)
C-D	-239 / 0	-91.8	-91.8 0.14 (1)	6.25	G-D	0 / 387	0.09 (1)
E-D	-297 / 0	0.0	0.0 0.15 (1)	7.81			
H-B	-415 / 0	0.0	0.0 0.04 (1)	7.81			
H-G	0 / 0	-18.5	-18.5 0.07 (4)	10.00			
F-G	0 / 23	0.0	0.0 0.02 (1)	10.00			
G-C	-336 / 0	0.0	0.0 0.02 (1)	7.81			
F-E	0 / 11	-18.5	-18.5 0.03 (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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.01")

CSI: TC=0.15/1.00 (D-E:1), BC=0.07/1.00 (G-H:4),
WB=0.09/1.00 (D-G:1), SS=0.13/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
	MAX	MIN	MAX MIN
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.42 (G) (INPUT = 0.90)

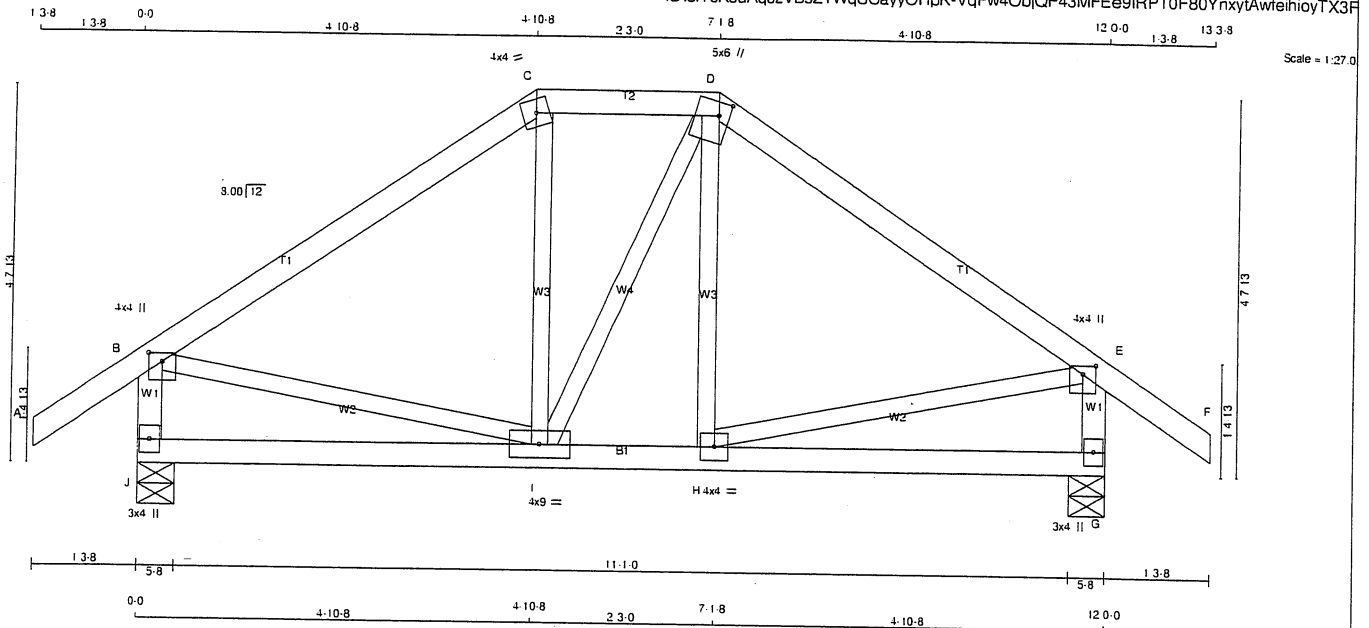
JSI METAL= 0.13 (G) (INPUT = 1.00)



Structural component only
DWG# T-2117973

JOB NAME 413426	TRUSS NAME T31	QUANTITY 2	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.330 S May 6 2020 Mitek Industries, Inc. Wed Oct 14 11:24:30 2020 Page 1
ID:8lTcKsuAqJzVBsZ1WqSCayyOHpk-VqFw4ObjQF43MFEe9lRPT0F80YnxytAwfeihoyTX3F



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
C	TTW-m	MT20	4.0	4.0		
D	TTWW+m	MT20	5.0	6.0	2.00	1.50
E	TMVW+p	MT20	4.0	4.0	1.25	2.00
G	BMV1+p	MT20	3.0	4.0		
H	BMVW-t	MT20	4.0	4.0		
I	BMVWW-t	MT20	4.0	9.0		
J	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
J	787	0	787	0
G	787	0	787	0

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
J	555	377	0	0	0	177	0
G	555	377	0	0	0	177	0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	W E B S	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO			FROM TO			FR-TO			
A-B	0.35	-91.8	-91.8	0.12 (1)	10.00	I-C	-25	47	0.02 (4)
B-C	-542.0	-91.8	-91.8	0.28 (1)	6.25	I-D	0	2	0.00 (4)
C-D	-449.0	-91.8	-91.8	0.06 (1)	6.25	H-D	-27	45	0.02 (4)
D-E	-541.0	-91.8	-91.8	0.28 (1)	6.25	B-I	0	460	0.10 (1)
E-F	0.35	-91.8	-91.8	0.12 (1)	10.00	H-E	0	460	0.10 (1)
J-B	-748.0	0.0	0.0	0.08 (1)	7.81				
G-E	-748.0	0.0	0.0	0.08 (1)	7.81				
J-I	0.0	-18.5	-18.5	0.10 (4)	10.00				
I-H	0.449	-18.5	-18.5	0.13 (4)	10.00				
H-G	0.0	-18.5	-18.5	0.10 (4)	10.00				

TOTAL WEIGHT = 2 X 54 = 107 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

(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 (0.40")
CALCULATED VERT. DEFL. (LL) = L/999 (0.01")
ALLOWABLE DEFL. (TL) = L/360 (0.40")
CALCULATED VERT. DEFL. (TL) = L/999 (0.03")

CSI: TC=0.28/1.00 (B-C:1), BC=0.13/1.00 (H-I:4), WB=0.10/1.00 (B-I:1), SSI=0.15/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.58 (B) (INPUT = 0.90)
JSI METAL = 0.17 (B) (INPUT = 1.00)

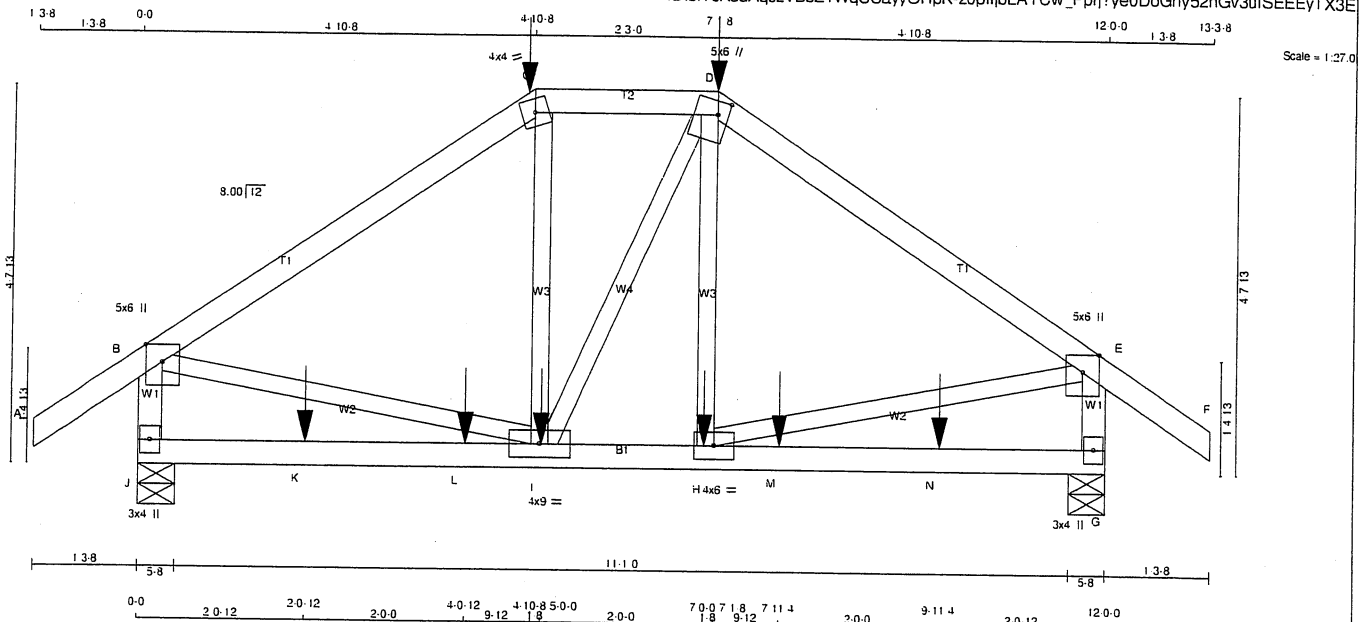


Structural component only
DWG# T-2022186

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
413426	T31Z	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 11:24:31 2020 Page 1
ID:8ITcKsuAqJzVBsZ1WqSCayOHpK-z0pIjbLAYCw_Pprj?ye0DoGny52hGv3ulSEEEyTX3E



LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	6.0	Edge	
C	TTW-m	MT20	4.0	4.0		
D	TTWW+m	MT20	5.0	6.0	2.00	1.50
E	TMVW+p	MT20	5.0	6.0	Edge	
G	BMV1+p	MT20	3.0	4.0		
H	BMVW-t	MT20	4.0	6.0		
I	BMVWW-t	MT20	4.0	9.0		
J	BMV1+p	MT20	3.0	4.0		

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	IN-SX	IN-SX
J	1331	0	1331	0	5-8	5-8		
G	1332	0	1332	0	5-8	5-8		

UNFACTORED REACTIONS

JT	1ST CASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
J	939	632	0	0	0	0	0
G	939	632	0	0	0	0	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.08 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO			FR-TO			
A-B	0 35	-91.8	-91.8	0.14 (1)	10.00	I-C	-90 79	0.03 (4)	
B-C	-1258 0	-91.8	-91.8	0.47 (1)	5.08	I-D	0 3	0.00 (4)	
C-D	-1042 0	-91.8	-91.8	0.10 (1)	6.02	H-D	-92 76	0.03 (1)	
D-E	-1256 0	-91.8	-91.8	0.47 (1)	5.08	B-I	0 1069	0.26 (1)	
E-F	0 35	-91.8	-91.8	0.14 (1)	10.00	H-E	0 1068	0.26 (1)	
J-B	-1274 0	0.0	0.0	0.14 (1)	7.10				
G-E	-1275 0	0.0	0.0	0.14 (1)	7.10				
J-K	0 0	-18.5	-18.5	0.19 (4)	10.00				
K-L	0 0	-18.5	-18.5	0.19 (4)	10.00				
L-I	0 0	-18.5	-18.5	0.19 (4)	10.00				
I-H	0 1041	-18.5	-18.5	0.26 (1)	10.00				
H-M	0 0	-18.5	-18.5	0.19 (4)	10.00				
M-N	0 0	-18.5	-18.5	0.19 (4)	10.00				
N-G	0 0	-18.5	-18.5	0.19 (4)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	4-10.8	-319	-319	---	BACK	VERT	TOTAL	---	C1
D	7-1.8	-319	-319	---	BACK	VERT	TOTAL	---	C1
H	7-0.0	-21	-21	---	BACK	VERT	TOTAL	---	C1
I	5-0.0	-21	-21	---	BACK	VERT	TOTAL	---	C1
K	2-0.12	-22	-22	---	BACK	VERT	TOTAL	---	C1
L	4-0.12	-21	-21	---	BACK	VERT	TOTAL	---	C1
M	7-11.4	-21	-21	---	BACK	VERT	TOTAL	---	C1
N	9-11.4	-22	-22	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 54 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

(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 (0.40")
CALCULATED VERT. DEFL.(LL)= L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.40")
CALCULATED VERT. DEFL.(TL)= L/999 (0.05")

CSI: TC=0.47/1.00 (B-C:1), BC=0.26/1.00 (H-I:1), WB=0.26/1.00 (B-I:1), SS=0.16/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.78 (B) (INPUT = 0.90)
JSI METAL= 0.53 (B) (INPUT = 1.00)

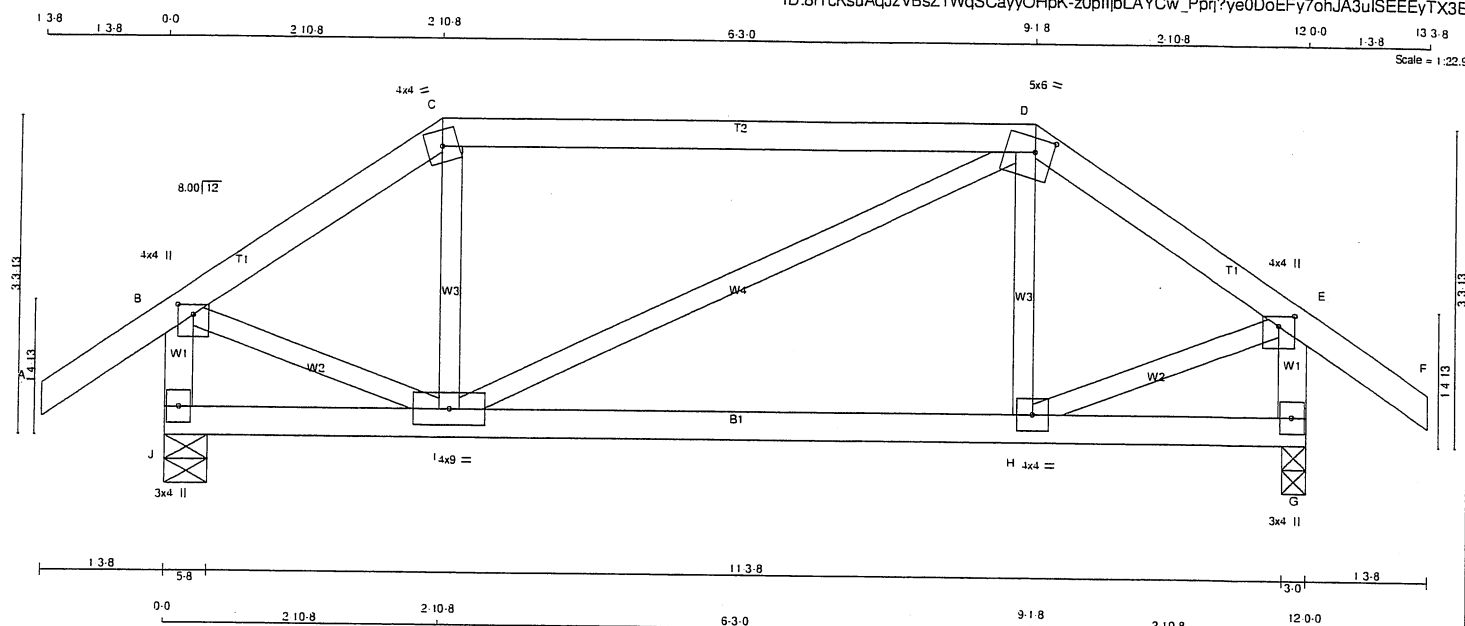


Structural component only
DWG# T-2022187

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
413426	T32	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 11:24:31 2020 Page 1
ID:8ITcKsuAqJzVBsZ1WqSCayyOHpk-z0pIjbLAYCw_Pprj?ye0D0EFy7ohJA3uISEEEyTX3E



TOTAL WEIGHT = 49 lb
(M)

LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
C	TTW-m	MT20	4.0	4.0		
D	TTWW-m	MT20	5.0	6.0	1.75	2.25
E	TMVW+p	MT20	4.0	4.0	1.25	2.00
G	BMV1+p	MT20	3.0	4.0		
H	BMVW-t	MT20	4.0	4.0		
I	BMVWW-t	MT20	4.0	9.0		
J	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		
J	787	0	787	0	5-8	5-8
G	787	0	787	0	3-0	3-0

UNFACTORED REACTIONS

JT	1ST CASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
J	555	377	0	0	0	177	0
G	555	377	0	0	0	177	0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		MAX. UNBRAC LENGTH	MEMB.	WEBS	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX. CSI (LC)			MAX. FORCE (LBS)	MAX. CSI (LC)
FR-TO						FR-TO		
A-B	0 35	-91.8	-91.8	0.12 (1)	10.00	I-C	-83 45	0.02 (1)
B-C	-601 0	-91.8	-91.8	0.13 (1)	6.25	I-D	0 0	0.00 (1)
C-D	-496 0	-91.8	-91.8	0.64 (1)	6.25	H-D	-83 45	0.02 (1)
D-E	-601 0	-91.8	-91.8	0.13 (1)	6.25	B-I	0 531	0.12 (1)
E-F	0 35	-91.8	-91.8	0.12 (1)	10.00	H-E	0 531	0.12 (1)
J-B	-774 0	0.0	0.0	0.08 (1)	7.81			
G-E	-774 0	0.0	0.0	0.08 (1)	7.81			
J-I	0 0	-18.5	-18.5	0.11 (4)	10.00			
I-H	0 496	-18.5	-18.5	0.15 (4)	10.00			
H-G	0 0	-18.5	-18.5	0.11 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6 PSF
	DL = 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

(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 (0.40")
CALCULATED VERT. DEFL.(LL)= L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.40")
CALCULATED VERT. DEFL.(TL)= L/999 (0.04")

CSI: TC=0.64/1.00 (C-D:1), BC=0.15/1.00 (H-I:4),
WB=0.12/1.00 (E-H:1), SS=0.22/1.00 (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
MT20	618	354	1667 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.64 (H) (INPUT = 0.90)
JSI METAL = 0.19 (H) (INPUT = 1.00)

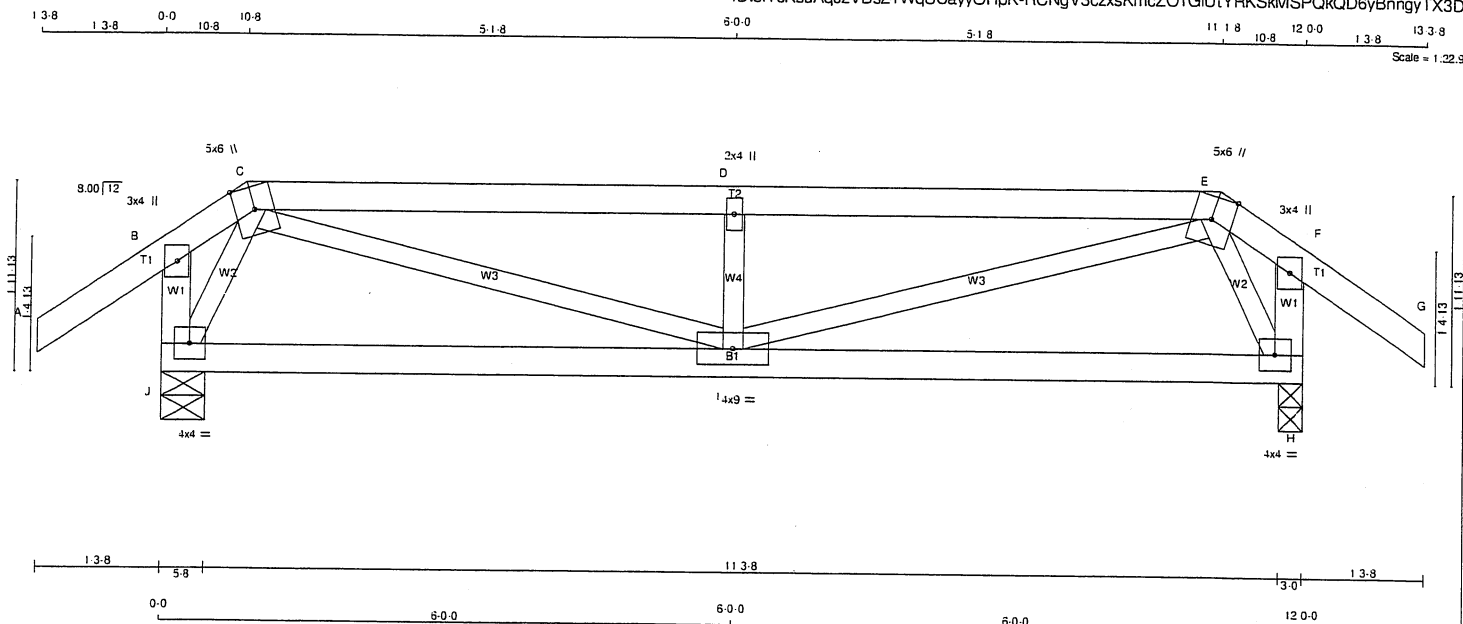


Structural component only
DWG# T-2022188

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
413426	T33	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 11:24:32 2020 Page 1
ID:8ITcKsuAqJzVBsZ1WqSCayyOHpK-RCNgV3czxsKmcZO1GiUtYRKSkMSPQkQD6yBnngyTX3D



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

J - B 2x4 DRY No.2

H - F 2x4 DRY No.2

J - H 2x4 DRY No.2

ALL WEBS 2x3 DRY No.2

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE PLATES W LEN Y X

B TMV+p MT20 3.0 4.0

C TTWW+m MT20 5.0 6.0 Edge

D TMV+w MT20 2.0 4.0

E TTWW+m MT20 5.0 6.0 Edge

F TMV+p MT20 3.0 4.0

H BMVW1-t MT20 4.0 4.0

I BMVWW-t MT20 4.0 9.0

J BMVW1-t MT20 4.0 4.0

Edge - INDICATES REFERENCE CORNER OF PLATE

TOUCHES EDGE OF CHORD.

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

BUILDING DESIGNER

BEARINGS

FACTORED MAXIMUM FACTORED INPUT REQD

GROSS REACTION GROSS REACTION BRG BRG

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

J 787 0 787 0 0 5-8 5-8

H 787 0 787 0 0 3-0 3-0

UNFACTORED REACTIONS

1ST LCASE MAX-MIN. COMPONENT REACTIONS

JT COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL

J 555 377 0 0 0 0 0 177 0 0 0

H 555 377 0 0 0 0 0 177 0 0 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.15 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS MAX. FACTORED FACTORED WEBS MAX. FACTORED

MEMB. FORCE (LBS) VERT. LOAD LC1 MAX. UNBRAC MEMB. FORCE MAX

FR-TO FROM TO LENGTH FR-TO

A-B 0 35 -91.8 -91.8 0.12 (1) 10.00 I-D -567 0 0.08 (1)

B-C -52 0 -91.8 -91.8 0.12 (1) 6.25 J-C -545 0 0.08 (1)

C-D -1304 0 -91.8 -91.8 0.40 (1) 5.15 C-I 0 1101 0.25 (1)

D-E -1304 0 -91.8 -91.8 0.40 (1) 5.15 E-H -545 0 0.08 (1)

E-F -52 0 -91.8 -91.8 0.12 (1) 6.25 I-E 0 1101 0.25 (1)

F-G 0 35 -91.8 -91.8 0.12 (1) 10.00

J-B -262 0 0.0 0.0 0.03 (1) 7.81

H-F -262 0 0.0 0.0 0.03 (1) 7.81

J-I 0 260 -18.5 -18.5 0.19 (4) 10.00

I-H 0 260 -18.5 -18.5 0.19 (4) 10.00

TOTAL WEIGHT = 46 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

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 (0.40")
CALCULATED VERT. DEFL.(LL)= L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.40")
CALCULATED VERT. DEFL.(TL)= L/999 (0.08")

CSI: TC=0.40/1.00 (C-D:1), BC=0.19/1.00 (H-I:4), WB=0.25/1.00 (C-I:1), SSI=0.22/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

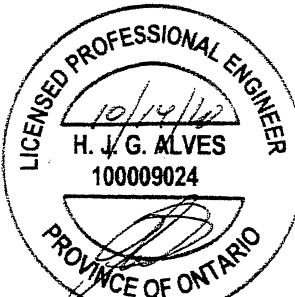
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

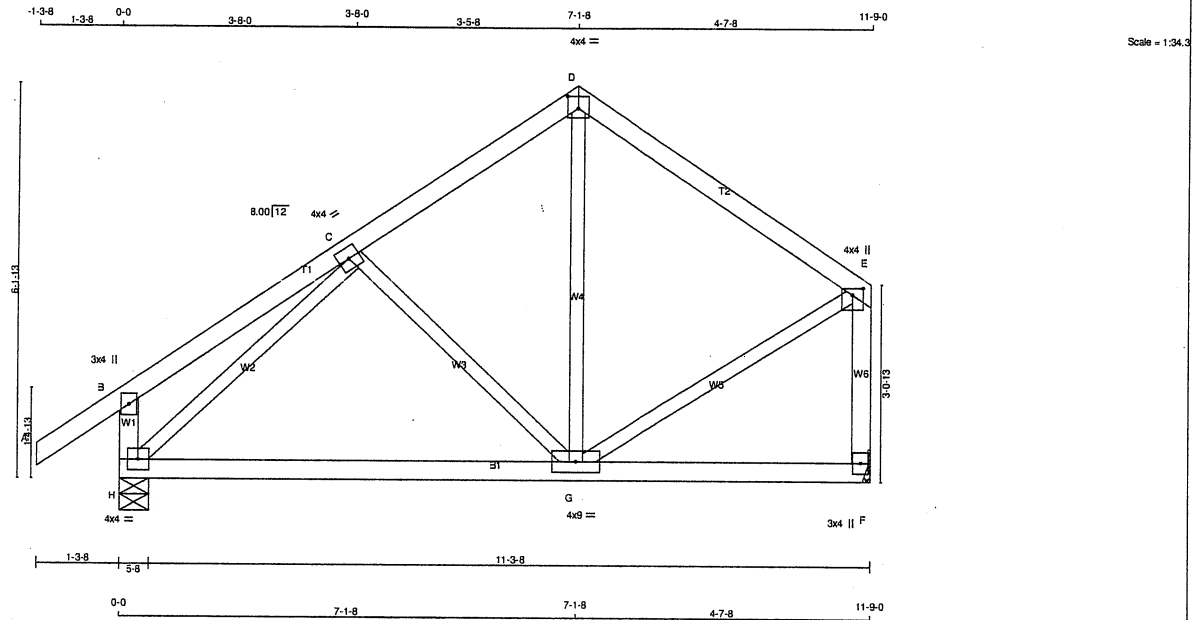
JSI METAL= 0.32 (E) (INPUT = 1.00)



Structural component only
DWG# T-2022189

JOB NAME 413426	TRUSS NAME T34	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Mon Jun 7 08:37:36 2021 Page 1
ID:8ITcKsuAqJzVBsZ1WqSCayyOHpK-X0K3La0IrfH1Drt5vxBNLWdmt1K2Sn?Vsyrqasz8knj



TOTAL WEIGHT = 52 lb
(M/F)

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

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMV+p	MT20	3.0	4.0	
C	TMWW-t	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	1.25 2.00
F	BMV1+p	MT20	3.0	4.0	
G	BMWWW-t	MT20	4.0	9.0	
H	BMVW1-t	MT20	4.0	4.0	

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
F	648	0	648	0	0
H	774	0	774	0	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN.	COMPONENT REACTIONS				
F	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	458	301 / 0	0 / 0	0 / 0	0 / 0	157 / 0	0 / 0
H	545	371 / 0	0 / 0	0 / 0	0 / 0	174 / 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	MEMB.	MAX. FACTORED
FR-TO	FORCE (LBS)	FR-TO	FORCE (LBS)
A-B	0 / 35	C-G	-218 / 0
B-C	0 / 21	G-D	0 / 102
C-D	-413 / 0	H-C	-673 / 0
D-E	-392 / 0	G-E	0 / 379
H-B	-251 / 0		
F-E	-623 / 0		
H-G	0 / 483		
G-F	0 / 0		

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = $L/360$ (0.39")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.01")
ALLOWABLE DEFL.(TL) = $L/360$ (0.39")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.07")

CSI: TC=0.25/1.00 (D-E:1), BC=0.24/1.00 (G-H:4),
WB=0.26/1.00 (C-H:1), SSI=0.14/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX	MIN	MAX	MIN
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.54 (H) (INPUT = 0.90)
JSI METAL= 0.21 (C) (INPUT = 1.00)

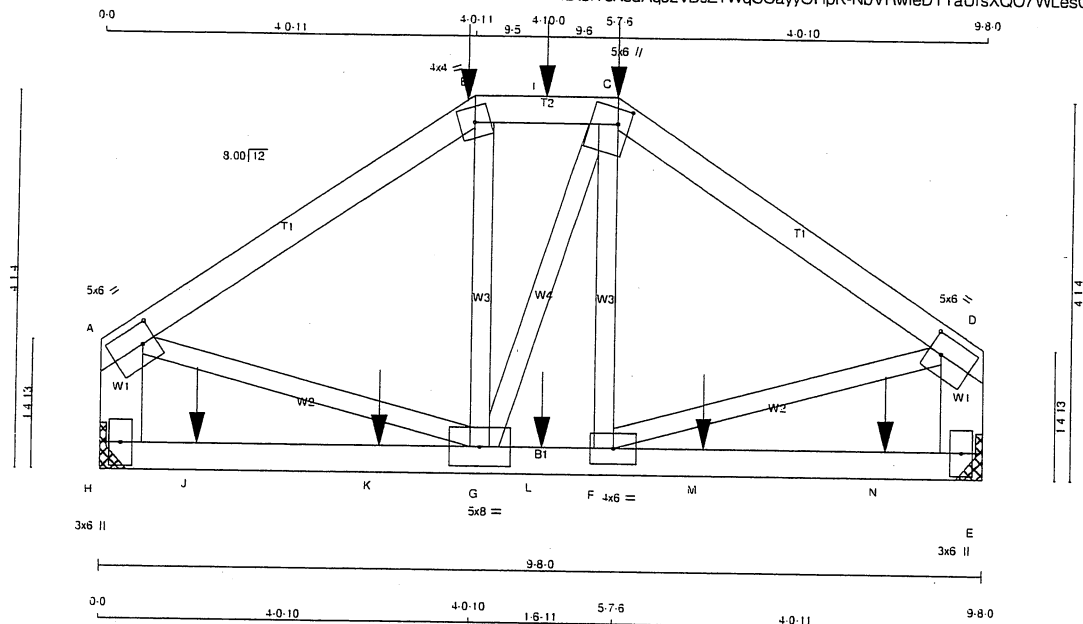


Structural component only
DWG# T-2117974

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
413426	T35	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 11:24:34 2020 Page 1
ID:8ITcKsuAqJzVBsZ1WqSCayyOHpK-NbVRwleDTTaUrsXQO7WLESQqd98luefWaGgurZyTX3B



Scale: 1/2"=1'

TOTAL WEIGHT = 43 lb [M]

LUMBER

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

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	5.0	6.0	2.50	1.75
B	TTW-m	MT20	4.0	4.0		
C	TTWW-m	MT20	5.0	6.0	2.00	1.50
D	TMVW-t	MT20	5.0	6.0	2.50	1.75
E	BMV1-p	MT20	3.0	6.0		
F	BMWW-t	MT20	4.0	6.0		
G	BMWW-t	MT20	5.0	8.0		
H	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	REQRD BRG
JT	VERT	DOWN	IN-SX	IN-SX
H	971	0	0	0
E	971	0	0	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
H	686	455.0	0.0	0.0	0.0	231.0	0.0
E	686	455.0	0.0	0.0	0.0	231.0	0.0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLINE SPACING = 5.93 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LC)	MAX. UNBRACED LENGTH	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. VERT. LOAD (LC)
FR-TO						FR-TO			
A-B	-946	0	-91.8	-91.8	0.31 (1)	5.93	G-B	-103	50
B-I	-782	0	-91.8	-91.8	0.13 (1)	6.25	G-C	0	4
I-C	-782	0	-91.8	-91.8	0.13 (1)	6.25	F-C	-103	46
C-D	-945	0	-91.8	-91.8	0.31 (1)	5.93	A-G	0	811
H-A	-914	0	0.0	0.0	0.07 (1)	7.81	F-D	0	811
E-D	-916	0	0.0	0.0	0.07 (1)	7.81			
H-J	0	0	-18.5	-18.5	0.13 (4)	10.00			
J-K	0	0	-18.5	-18.5	0.13 (4)	10.00			
K-G	0	0	-18.5	-18.5	0.13 (4)	10.00			
G-L	0	782	-18.5	-18.5	0.20 (1)	10.00			
L-F	0	782	-18.5	-18.5	0.20 (1)	10.00			
F-M	0	0	-18.5	-18.5	0.12 (4)	10.00			
M-N	0	0	-18.5	-18.5	0.12 (4)	10.00			
N-E	0	0	-18.5	-18.5	0.12 (4)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
B	4-0-11	-40	-40		FRONT	VERT	DEAD		C1
B	4-0-11	-171	-171		FRONT	VERT	SNOW		C1
C	5-7-6	-40	-40		FRONT	VERT	DEAD		C1
C	5-7-6	-171	-171		FRONT	VERT	SNOW		C1
I	4-10-0	-90	-90		BACK	VERT	TOTAL		C1
J	1-0-12	-21	-21		BACK	VERT	TOTAL		C1
K	3-0-12	-21	-21		BACK	VERT	TOTAL		C1
L	4-10-0	-21	-21		BACK	VERT	TOTAL		C1
M	6-7-4	-21	-21		BACK	VERT	TOTAL		C1
N	8-7-4	-21	-21		BACK	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/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, 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 (0.32")
CALCULATED VERT. DEFL.(LL)= L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.32")
CALCULATED VERT. DEFL.(TL)= L/999 (0.03")

CSI: TC=0.31/1.00 (A-B:1), BC=0.20/1.00 (F-G:1), WB=0.20/1.00 (A-G:1), SSI=0.13/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

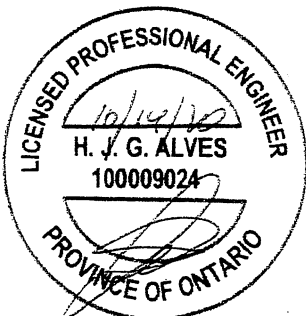
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.64 (A) (INPUT = 0.90)
JSI METAL= 0.26 (A) (INPUT = 1.00)

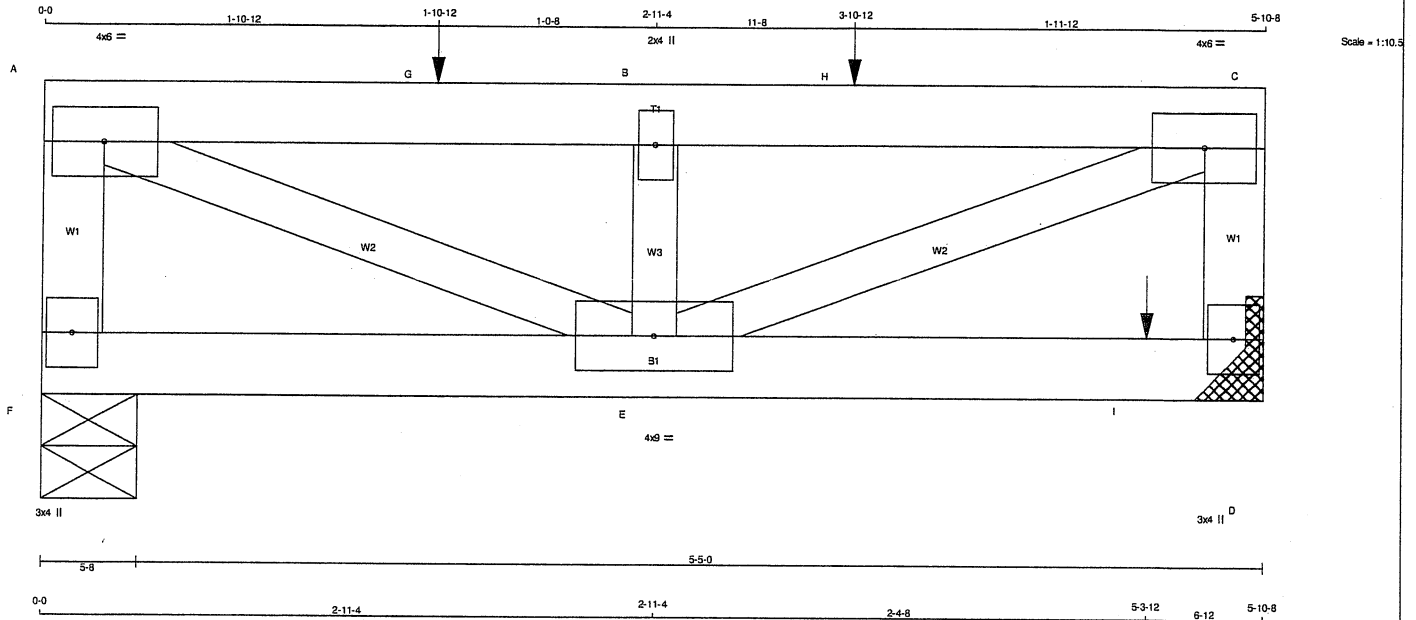


Structural component only
DWG# T-2022191

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
413426	T36	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Mon Jun 7 08:37:36 2021 Page 1
ID:8ITcKsuAqJzVBsZ1WqSCayyOHpK-X0K3La0lrfH1Dt5vxBNLWdlA1KBSnnVsyrgasz8knj



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

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
F - A	12	TOP
A - C	12	TOP
C - D	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F - D	12	SIDE(14.0)
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 TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.

PLATES (table is in inches)

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
F	1163	0	1163	0
D	1656	0	1656	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	829	510 / 0	0 / 0	0 / 0	0 / 0	319 / 0	0 / 0
D	1176	744 / 0	0 / 0	0 / 0	0 / 0	432 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORIZ. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (FT)	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (PLF)
FR-TO										
F-A	-1109 / 0	0.0	0.0	0.06 (1)	7.81		A-E	0 / 2246	0.28 (1)	
A-G	-2077 / 0	-91.8	-91.8	0.30 (1)	5.73		E-B	-1441 / 0	0.11 (1)	
G-B	-2077 / 0	-91.8	-91.8	0.30 (1)	5.73		E-C	0 / 2246	0.28 (1)	
B-H	-2077 / 0	-91.8	-91.8	0.30 (1)	5.73					
H-C	-2077 / 0	-91.8	-91.8	0.30 (1)	5.73					
D-C	-1089 / 0	0.0	0.0	0.06 (1)	7.81					
F-E	0 / 0	-43.5	-43.5	0.05 (4)	10.00					
E-I	0 / 0	-43.5	-43.5	0.23 (1)	10.00					
I-D	0 / 0	-43.5	-43.5	0.23 (1)	10.00					

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
G	1-10-12	-491	-491	---	TOP	VERT	---	C1
H	3-10-12	-491	-491	---	TOP	VERT	---	C1
I	5-3-12	-447	-447	---	FRONT	VERT	---	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/C

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

*** NON STANDARD GIRDER ***

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.30/1.00 (A-B:1), BC=0.23/1.00 (D-E:1), WB=0.28/1.00 (A-E:1), SSI=0.31/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	650 371	1747 788	1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.66 (A) (INPUT = 0.90)
JSI METAL= 0.25 (C) (INPUT = 1.00)



Structural component only
DWG# T-2117975

CONTINUED ON PAGE 2

JOB NAME 413426	TRUSS NAME T36	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	---	----------

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Mon Jun 7 08:37:37 2021 Page 2
ID:3lTcKsuAqJzVBsZ1WqSCavyOHpK-?CtRYv1wcyPug?SISfcuiAwwRgQBE1f5cbN6lz8kni

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
F	BMV1+p	MT20	3.0	4.0		

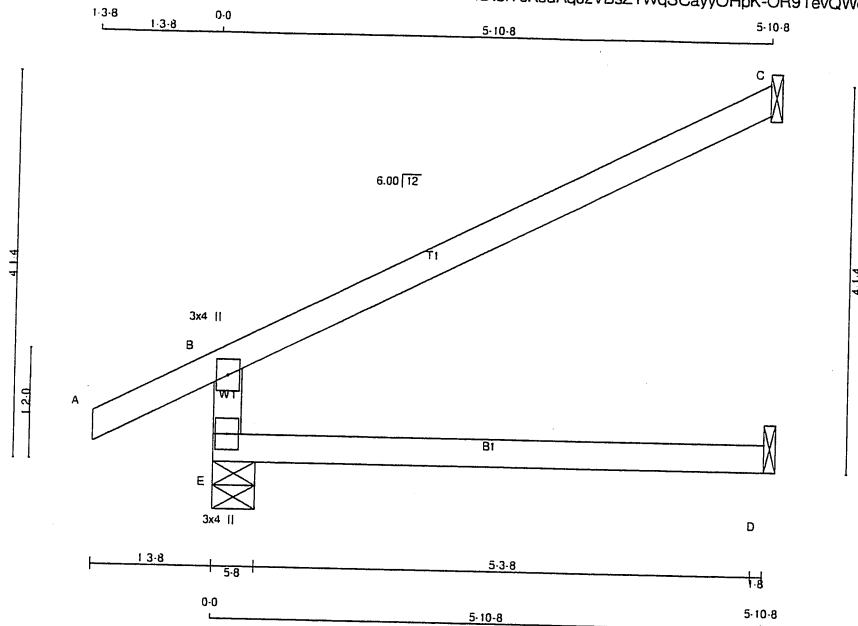


Structural component only
DWG# T-2117975

JOB NAME 406513	TRUSS NAME J1	QUANTITY 18	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.330 S May 6 2020 Mitek Industries, Inc. Wed Oct 14 10:41:35 2020 Page 1
ID:8ITcKsuAqJzVBsZ1WqSCayyOHpk-OR9TevQWq4fQxXtlp?IZc?51sYxU7IjvXXRwqYyTXhU

Scale = 1:23.3



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 GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	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

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX. MIN. COMPONENT REACTIONS		PERM. LIVE	WIND	DEAD	SOIL
	SNOW	LIVE	DOWN	HORZ				
E	369	257.0	0.0	0.0	0.0	0.0	111.0	0.0
C	139	113.0	0.0	0.0	0.0	0.0	26.0	0.0
D	36	0.0	0.0	0.0	0.0	0.0	36.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX. FORCE	VERT. LOAD	LC1	MAX	MAX. FORCE	VERT. LOAD	LC1	MAX
FR-TO	(LBS)	(PLF)	(LC)	(LBS)	(LBS)	(PLF)	(LC)	(LBS)
E-B	-461.0	0.0	0.0	0.13 (4)	7.81			
A-B	0.28	-91.8	-91.8	0.12 (1)	10.00			
B-C	-30.0	-91.8	-91.8	0.54 (1)	6.25			
E-D	0.0	-18.5	-18.5	0.13 (4)	10.00			

TOTAL WEIGHT = 18 X 17 = 302 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.54/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.24/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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.

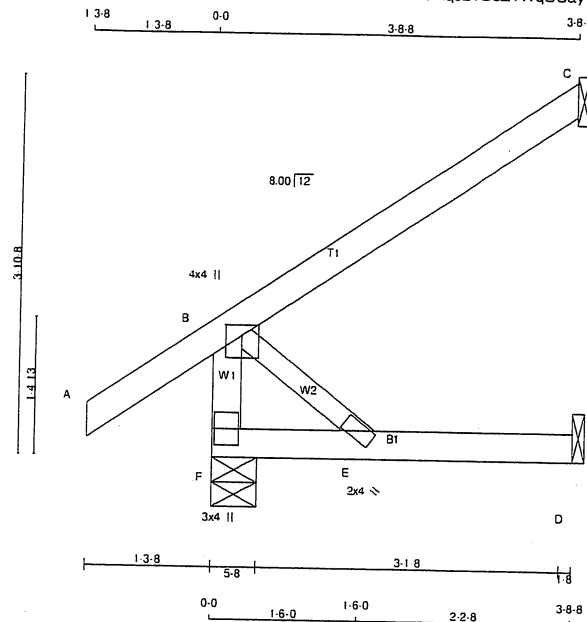
JSI GRIP=0.19 (E) (INPUT = 0.90)
JSI METAL=0.13 (B) (INPUT = 1.00)



Structural component only
DWG# T-2022150

JOB NAME 406513	TRUSS NAME J2	QUANTITY 4	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 10:41:36 2020 Page 1
ID:8ITcKsuAqJzVBsZ1WqSCayyOHpK-sdjrsFR8bOnHZhSyMiGo9CeHhylasiZ2mBBUM_yTXhT



Scale = 1/22.4

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

SPF

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
E	BMW+w	MT20	2.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG IN-SX	RECORD BRG IN-SX
F	330	330	5-8	5-8
C	170	170	1-8	1-8
D	34	38	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. SNOW	MAX./MIN. LIVE	MAX./MIN. PERM. LIVE	WIND	DEAD	SOIL
F	231	165.0	0.0	0.0	0.0	66.0	0.0
C	117	95.0	0.0	0.0	0.0	22.0	0.0
D	27	0.0	0.0	0.0	0.0	27.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
F-B	-296.0	0.0	0.0	0.03 (1)	7.81	10.00	
A-B	0.35	-91.8	-91.8	0.14 (5)	10.00		
B-C	0.0	-91.8	-91.8	0.21 (1)	10.00		
F-E	0.0	-18.5	-18.5	0.07 (4)	10.00		
E-D	0.0	-18.5	-18.5	0.07 (4)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 4 X 14 = 55 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, 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 (0.01")

CSI: TC=0.21/1.00 (B-C:1), BC=0.07/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SSI=0.11/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

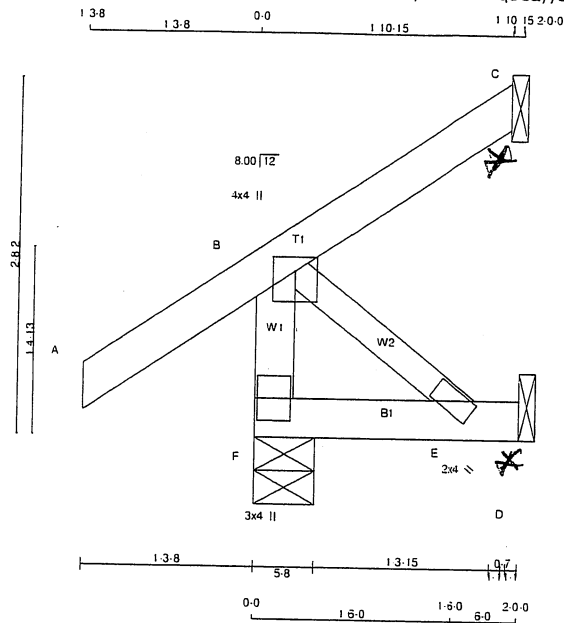
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.21 (B) (INPUT = 0.90)
JSI METAL = 0.06 (B) (INPUT = 1.00)



Structural component only
DWG# T-2022151

JOB NAME 413426	TRUSS NAME C31	QUANTITY 2	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			



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 is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
TM	TMVW+p	MT20	4.0	4.0	1.25	2.00
TM	BMV+w	MT20	2.0	4.0		
TM	BMV1+p	MT20	3.0	4.0		

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

DESCR.	SPF	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
F	277	0	277	0	5-8
C	42	0	42	0	1-8
D	19	0	21	0	1-8

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

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	193	144	0	0	0	0	49	0
C	29	24	25	0	0	0	6	0
D	15	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. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LOAD LC1	MAX. UNBRACED LENGTH	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO						FR-TO			
F-B	-259	0	0.0	0.0	0.03 (1)	B-E	0	0	0.00 (1)
A-B	0	35	-91.8	-91.8	0.12 (1)				
B-C	-25	0	-91.8	-91.8	0.12 (1)				
F-E	0	0	-18.5	-18.5	0.02 (4)				
E-D	0	0	-18.5	-18.5	0.02 (4)				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 9 = 19 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(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), SSI=0.09/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.18 (B) (INPUT = 0.90)
JSI METAL = 0.05 (B) (INPUT = 1.00)



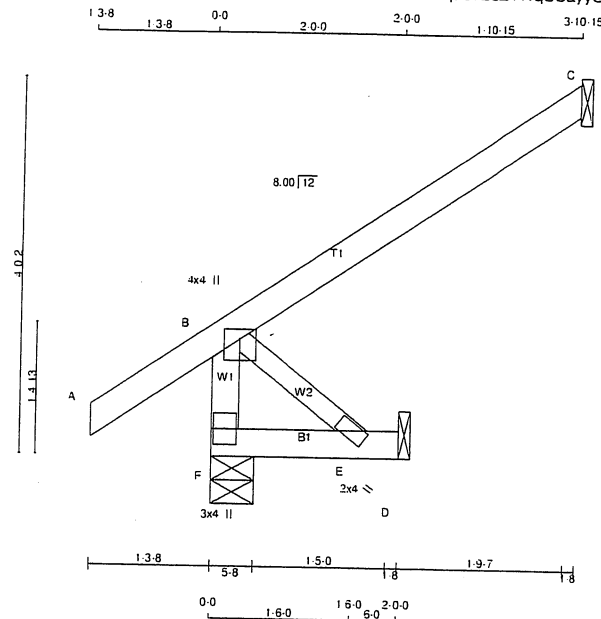
Structural component only
DWG# T-2022179

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
413426	C32	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 11:24:25 2020 Page 1
ID:8ITcKsuAqJzVBsZ1WqSCayyOHpK-8sS11gXabiRmGULhMksEmzY1_X6RHdYBVN?w1ayTX3K

Scale = 1:23.3



LUMBER

N. L. G. A. RULES

CHORDS SIZE

F - B 2x4 DRY

A - C 2x4 DRY

F - D 2x4 DRY

ALL WEBS 2x3 DRY

DRY: SEASONED LUMBER.

LUMBER

No.2

No.2

No.2

No.2

DESCR.

SPF

SPF

SPF

SPF

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ
F	324	0	324	0
C	179	0	179	0
D	18	0	21	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE			
F	225	170	0	0	0	0
C	124	100	0	0	0	0
D	15	0	0	0	0	0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS	WEBS
	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
	VERT. LOAD (PLF)	VERT. LOAD (PLF)
	FROM TO	FROM TO
F-B	-305 0	0.0 0.0
A-B	0 35	-91.8 -91.8
B-C	0 0	-91.8 -91.8
F-E	0 0	-18.5 -18.5
E-D	0 0	-18.5 -18.5

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 12 = 24 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

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=0.24/1.00 (B-C:1), BC=0.02/1.00 (E-F:4),

WB=0.00/1.00 (B-E:1), SSI=0.12/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (B) (INPUT = 0.90)

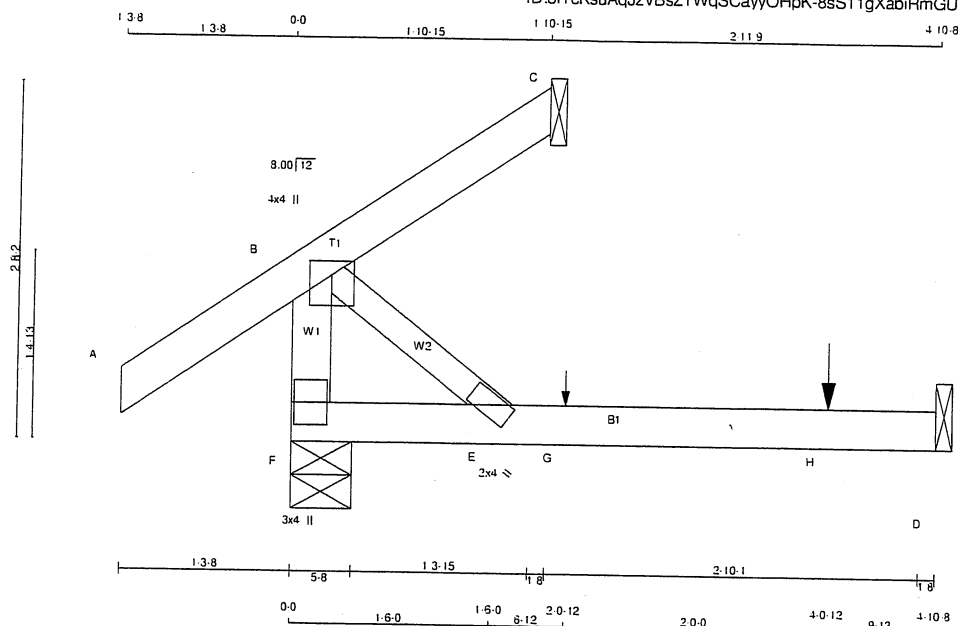
JSI METAL= 0.06 (B) (INPUT = 1.00)



Structural component only
DWG# T-2022180

JOB NAME 413426	TRUSS NAME C33	QUANTITY 2	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 11:24:25 2020 Page 1
ID:8ITcKsuAqJzVBsZ1WqSCayyOHpK-8sS11gXabiRmGULhMksEmzYKnX4kHdYBVN?w1ayTX3K



TOTAL WEIGHT = 2 X 13 = 25 lb

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.25 2.00
E	BMV+w	MT20	2.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

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

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
JT						
F	304	0	304	0	5-8	5-8
C	42	0	42	0	1-8	1-8
D	47	0	52	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED		MAX. MIN. COMPONENT REACTIONS				DEAD	SOIL
	SNOW	LIVE	PERM. LIVE	WIND				
F	215	144	0	0	0	0	70	0
C	29	24	0	0	0	0	6	0
D	37	0	0	0	0	0	37	0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED				WEBS		FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX	CS1 (LC)	UNBRAC LENGTH	MEMB.	MAX. FORCE (LBS)	MAX	CS1 (LC)
FR-TO							FR-TO			
F-B	-259	0	0.0	0.0	0.03 (1)	7.81	B-E	0	0	0.00 (1)
A-B	0	35	-91.8	-91.8	0.12 (1)	10.00				
B-C	-25	0	-91.8	-91.8	0.12 (1)	6.25				
F-E	0	0	-18.5	-18.5	0.11 (4)	10.00				
E-G	0	0	-18.5	-18.5	0.13 (4)	10.00				
G-H	0	0	-18.5	-18.5	0.13 (4)	10.00				
H-D	0	0	-18.5	-18.5	0.13 (4)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

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

CONNECTION REQUIREMENTS

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

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

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 (0.03")

CSI: TC=0.12/1.00 (A-B:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=0.09/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



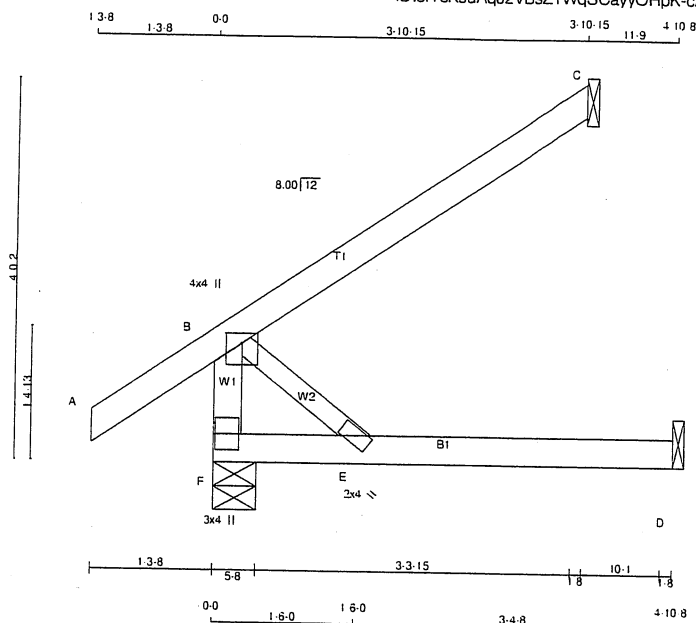
Structural component only
DWG# T-2022181

JOB NAME 413426	TRUSS NAME C34	QUANTITY 2	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
--------------------	-------------------	---------------	----------	-------------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 11:24:26 2020 Page 1
ID:8ITcKsuAqJzVBsZ1WqSCayyOHPK-c20PE0YCM0ZduewtwSNTJA4TfxQ?04okk0kTZ1yTX3J

Scale = 1/23.1



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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
E	BMV+w	MT20	2.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
F	350	0	350	0	5-8	5-8
C	179	0	179	0	1-8	1-8
D	45	0	51	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX. MIN. COMPONENT REACTIONS		PERM LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE					
F	246	170	0	0	0	0	76	0
C	124	100	0	0	0	0	23	0
D	36	0	0	0	0	0	36	0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX. FORCE	FACTORED	VERT. LOAD	LC1 MAX	MAX. MEMB.	MAX. FORCE	MAX. FORCE	MAX
	(LBS)	(PLF)		CSI (LC)	UNBRAC	(LBS)	CSI (LC)	(LC)
FR-TO		FROM TO			LENGTH	FR-TO		
F-B	-305	0	0.0	0.0	0.03 (1)	7.81	B-E	0 0 0.00 (1)
A-B	0	35	-91.8	-91.8	0.12 (1)	10.00		
B-C	0	0	-91.8	-91.8	0.24 (1)	10.00		
F-E	0	0	-18.5	-18.5	0.11 (4)	10.00		
E-D	0	0	-18.5	-18.5	0.13 (4)	10.00		

TOTAL WEIGHT = 2 X 15 = 31 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 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) = $L/999$ (0.03")

CSI: TC=0.24/1.00 (B-C:1), BC=0.13/1.00 (D-E:4),
WB=0.00/1.00 (B-E:1), SSI=0.12/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.21 (B) (INPUT = 0.90)
JSI METAL = 0.06 (B) (INPUT = 1.00)



Structural component only
DWG# T-2022182



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-1300213

Feb 09, 2018

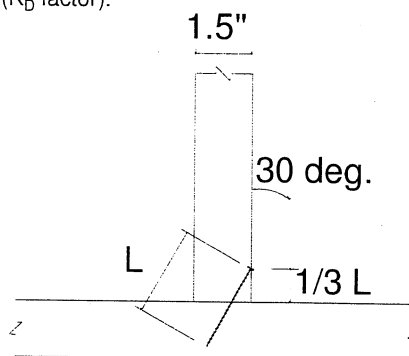
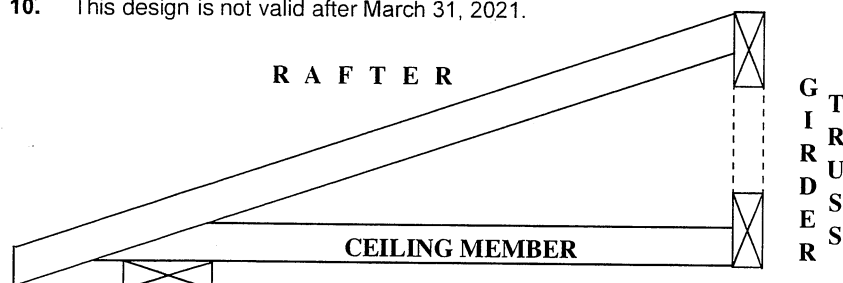
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

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

PEO
Certificate No. 10889485



BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

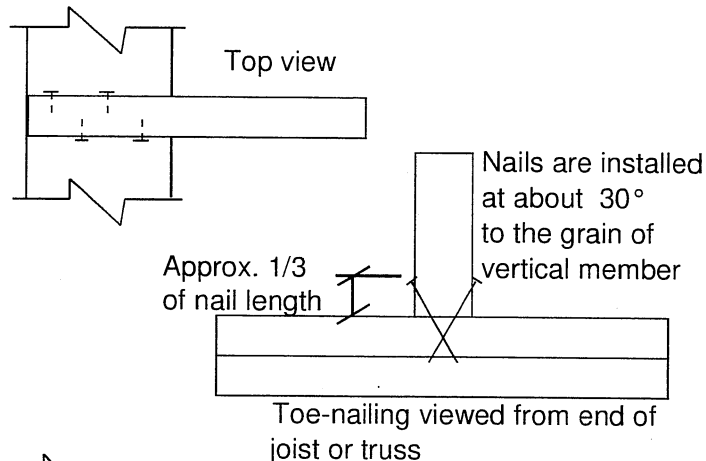
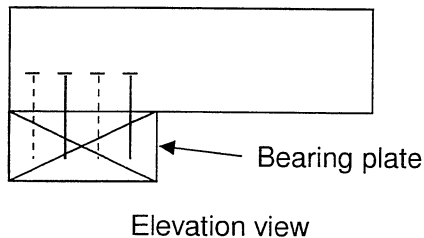
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52
COMMON SPIRAL	3.00	0.122	26	36
	3.25	0.122	28	40
	3.50	0.152	36	50

Note: If using truss with D. Fir lumber and S-P-F bearing plate, use values in table for S-P-F.

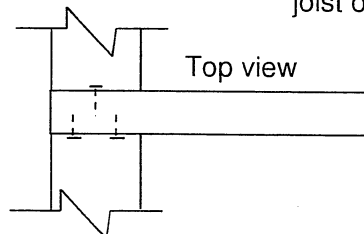
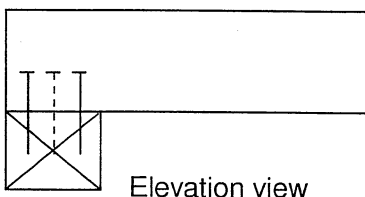
NOTES:

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

PEO
Certificate No. 10889485



December 2, 2019

HUS/LJS – Double Shear Joist Hangers



All hangers have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails, faster installation and the use of common nails for all connections. Do not bend or remove tabs.

Material: See table

Finish: G90 galvanized

Design:

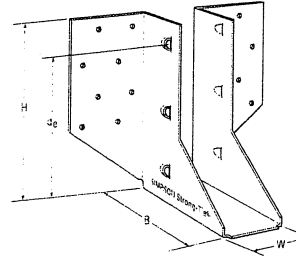
- Factored resistances are in accordance with CSA O86 -14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

Installation:

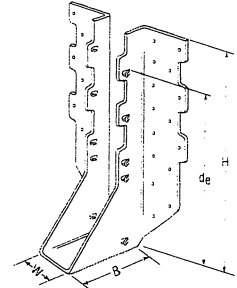
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3½" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

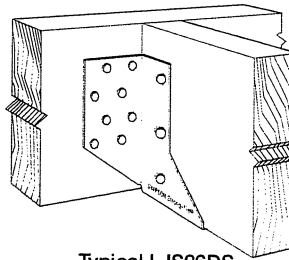
- See current catalogue for options



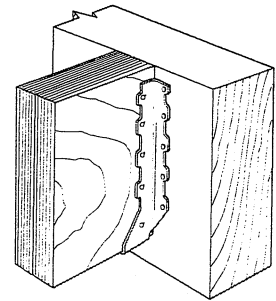
LJS26DS



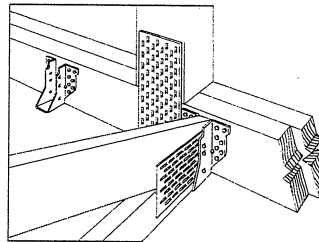
HUS210
(HUS26, HUS28, similar)



Typical LJS26DS
Installation



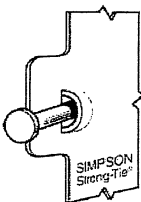
Typical HUS
Installation



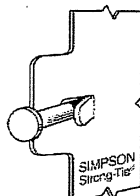
Typical HUS Installation
(Truss Designer to provide fastener
quantity for connecting multiple
members together)

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K ₀ =1.15)	Normal (K ₀ =1.00)	Uplift (K ₀ =1.15)	Normal (K ₀ =1.00)
LJS26DS	18	1⅞	5	3½	4⅞	(16) 16d	(6) 16d	2055	4265	1460	4115
HUS26	16	1⅞	5⅞	3	3⅞	(14) 16d	(6) 16d	2705	4940	2065	3875
HUS28	16	1⅞	7⅞	3	6⅞	(22) 16d	(8) 16d	3605	5365	2675	4345
HUS210	16	1⅞	9⅞	3	7⅞	(30) 16d	(10) 16d	4505	5795	4010	4740
HUS1.81/10	16	1⅞	9	3	8	(30) 16d	(10) 16d	4505	6450	4010	5200

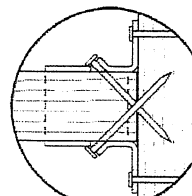
1. d_e is the distance from the seat of the hanger to the highest joist nail.



Dome Double
Shear Nailing
prevents tabs
breaking off
(available on
some models).
U.S. Patent
5,603,580



Double
Shear
Nailing
Side View.
Do not
bend tab
back.



Double
Shear
Nailing
Top View.



LIMIT
STATES
DESIGN

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

© 2020 Simpson Strong-Tie Company Inc.

T-SPECHUS20 3/20 exp. 6/22

(800) 999-5099
strongtie.com

LUS – Double Shear Joist Hangers



All LUS hangers have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails, faster installation and the use of common nails for all connections.

Material: 18 gauge

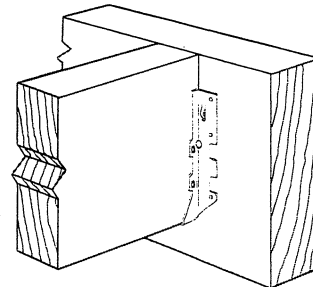
Finish: G90 galvanized

Design:

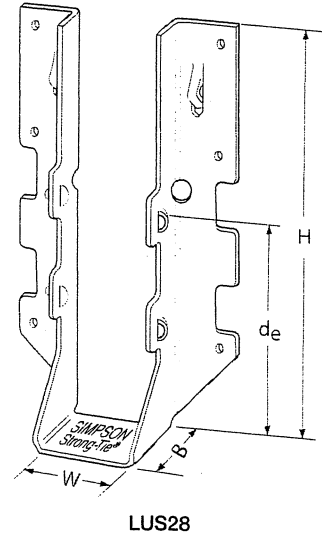
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

Installation:

- Use all specified fasteners.
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire, 10d = 0.148" x 3" long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.

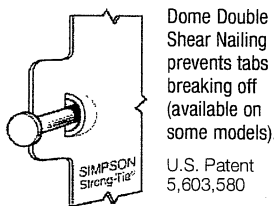


Typical LUS Installation

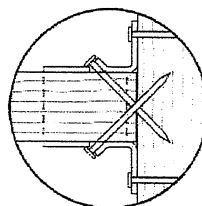


Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K _p =1.15)	Normal (K _p =1.00)	Uplift (K _p =1.15)	Normal (K _p =1.00)
LUS24	18	1 7/16	3 1/8	1 3/4	1 15/16	(4) 10d	(2) 10d	710	1630	645	1155
LUS24-2	18	3 1/8	3 1/8	2	1 13/16	(4) 16d	(2) 16d	835	2020	590	1435
LUS26	18	1 9/16	4 3/4	1 3/4	3 5/8	(4) 10d	(4) 10d	1420	2170	1290	1630
LUS26-2	18	3 1/8	4 7/8	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
LUS26-3	18	4 5/8	4 3/16	2	3 1/4	(4) 16d	(4) 16d	1720	2595	1545	2340
LUS28	18	1 9/16	6 5/8	1 3/4	3 3/4	(6) 10d	(6) 10d	1420	2520	1290	1790
LUS28-2	18	3 1/8	7	2	4	(6) 16d	(4) 16d	1720	3325	1545	2575
LUS28-3	18	4 5/8	6 1/4	2	3 1/4	(6) 16d	(4) 16d	1720	3325	1545	2375
LUS210	18	1 9/16	7 13/16	1 3/4	3 7/8	(8) 10d	(4) 10d	1420	2785	1290	2210
LUS210-2	18	3 1/8	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
LUS210-3	18	4 5/8	8 3/16	2	5 1/4	(8) 16d	(6) 16d	2580	3345	2320	2375

1. d_e is the distance from the seat of the hanger to the highest joist nail.



Dome Double Shear Nailing prevents tabs breaking off (available on some models).
U.S. Patent 5,603,580



Double Shear Nailing Top View.



LIMIT STATES DESIGN

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

© 2020 Simpson Strong-Tie Company Inc.

T-SPECLUS20 3/20 exp. 6/22

(800) 999-5099
strongtie.com

HGUS – Double Shear Joist Hangers



All HGUS hangers have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails, faster installation and the use of common nails for all connections. Do not bend or remove tabs.

Material: 12 gauge

Finish: G90 galvanized

Design:

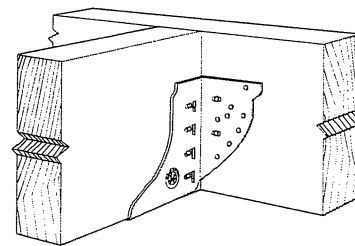
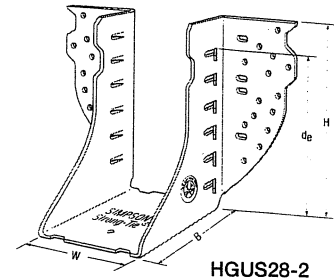
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%.
No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

Installation:

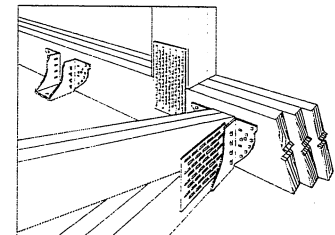
- Use all specified fasteners
- Nails: 16d = 0.162" dia x 3½" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

- See current catalogue for options



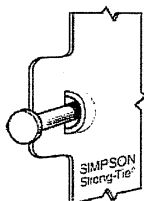
Typical HGUS Installation



Typical HGUS Installation
(Truss Designer to provide fastener quantity for connecting multiple members together)

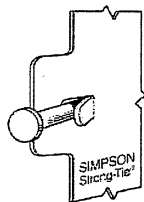
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K ₀ =1.15)	Normal (K ₀ =1.00)	Uplift (K ₀ =1.15)	Normal (K ₀ =1.00)
HGUS26	12	1⅝	5⅜	5	4⅝ ₃₂	(20) 16d	(8) 16d	2685	6625	2685	5700
HGUS26-2	12	3⅞	5⅞	4	4⅝	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS26-3	12	4⅞	5⅞	4	4⅝	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS26-4	12	6⅞	5⅞	4	4⅝	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS28	12	1⅝	7⅝	5	6⅝	(36) 16d	(12) 16d	3310	7675	3100	6900
HGUS28-2	12	3⅞	7⅞	4	6⅝	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS28-3	12	4⅞	7⅞	4	6⅝	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS28-4	12	6⅞	7⅞	4	6⅝	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS210	12	1⅝	9⅝	5	7⅞	(46) 16d	(16) 16d	3535	11070	2510	8090
HGUS210-2	12	3⅞	9⅞	4	8⅝	(46) 16d	(16) 16d	6840	14015	4855	10270
HGUS210-3	12	4⅞	9⅞	4	8⅝	(46) 16d	(16) 16d	6840	14645	4855	10400
HGUS210-4	12	6⅞	9⅞	4	8⅝	(46) 16d	(16) 16d	6840	14645	4855	10400
HGUS212-4	12	6⅞	10⅞	4	10⅝	(56) 16d	(20) 16d	7640	14995	5425	10645
HGUS214-4	12	6⅞	12⅞	4	11⅝	(66) 16d	(22) 16d	10130	16400	7195	11645

1. d_e is the distance from the seat of the hanger to the highest joist nail.

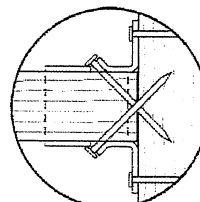


Dome Double Shear Nailing prevents tabs breaking off (available on some models).

U.S. Patent 5,603,580



Double Shear Nailing Side View. Do not bend tab back.



Double Shear Nailing Top View.



LIMIT
STATES
DESIGN

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

© 2020 Simpson Strong-Tie Company Inc.

T-SPECHGUS20 3/20 exp. 6/22

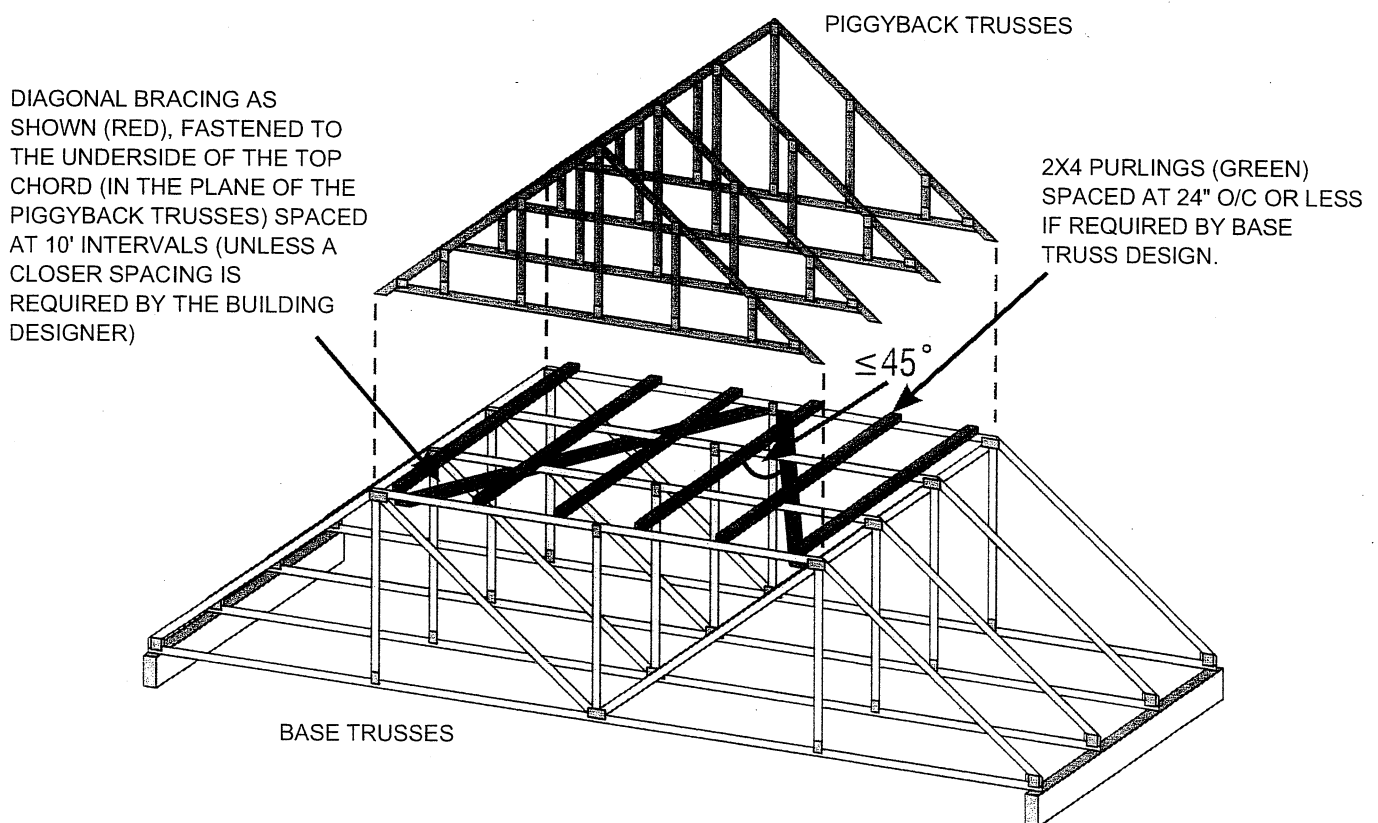
(800) 999-5099
strongtie.com

Overview:

Where piggybacks are connected ovetop of base trusses, 2x4 purlins must be first added to the flat portion of the base truss at a spacing no more than 24" o/c. These purlins not only provide support for the piggyback trusses above, but are required to laterally support the top chord of the base truss which will not have the sheathing directly connected to the flat portion of the base truss. This ensures the top chord, most often in compression, will not buckle laterally.

Further, the purlins in the plane of the flat portion require diagonal bracing to prevent lateral displacement of the purlins themselves where under certain conditions, the trusses may in fact all buckle in the same direction if this additional bracing is not added in the plane of the purlins.

Detail:



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.

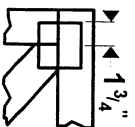
SKETCH FROM BCSI-CANADA 2013

Disclaimer:

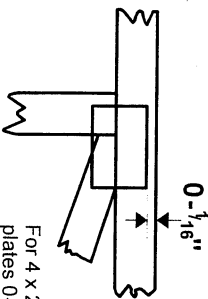
OWTFA Tech Notes are intended to provide guidance to the design community both within the membership as well as to third party designers who might benefit from the information. The details have been developed by the OWTFA technical committee and although there may be professional engineers involved in 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.

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0 - $\frac{1}{16}$ " from outside edge of truss.



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

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 X 4

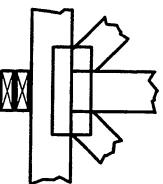
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



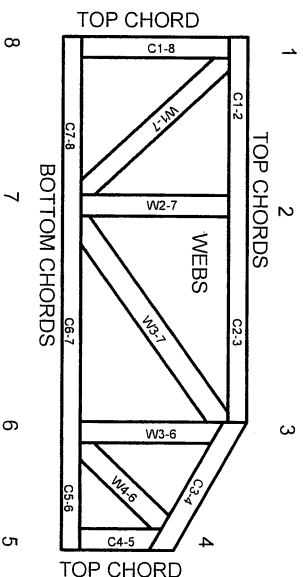
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.
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

6-4-8 dimensions shown in ft-in-sixteenths (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

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

© 2012 MiTek® All Rights Reserved



MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



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 Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
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 ANSI/TP1 1 Quality Criteria.