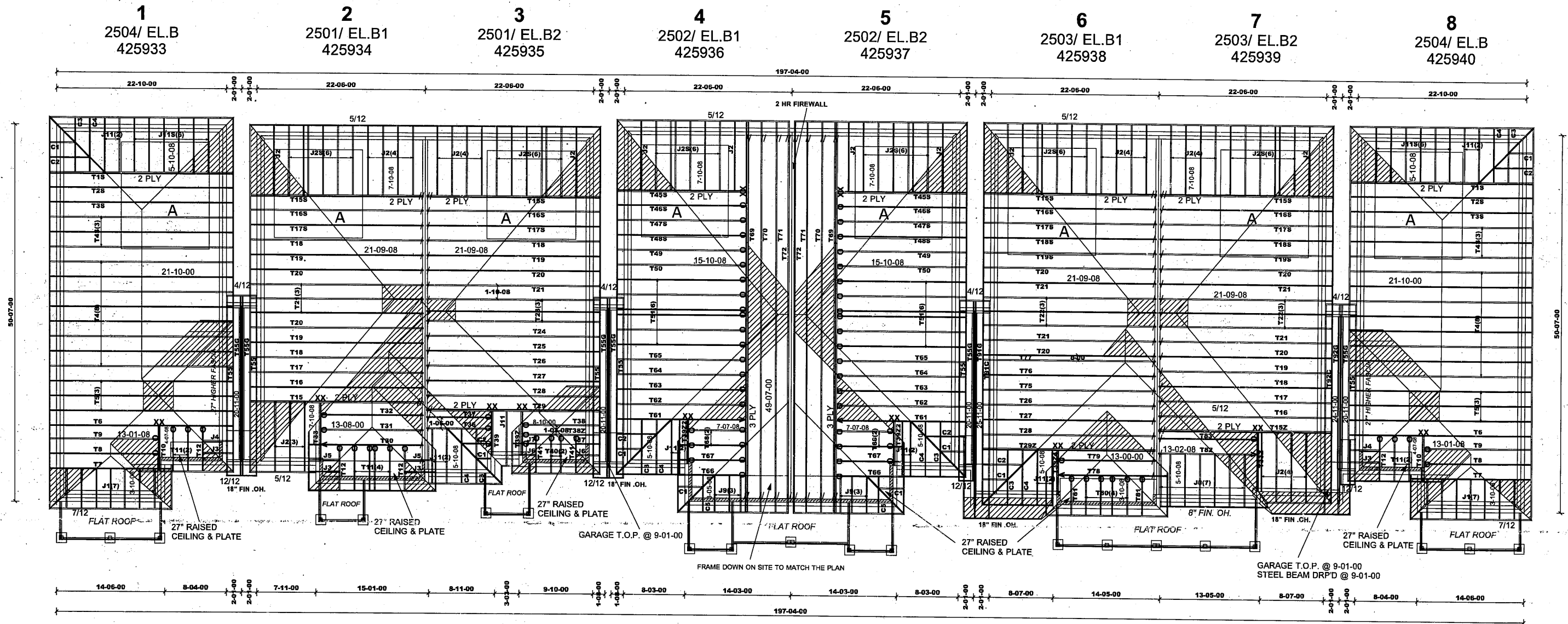




ASPHALT SHINGLES
12" FINISHED OH.
R.T.M.C.
2X6 EXTERIOR WALLS
2X6 FASCIA BOARD
6" BRICK DEDUCTION
(1" RIGID INSULATION)

HARDWARE:
LUS24 - (O)
LJS26DS - (V)
HGUS26-2 - (XX)
H2.5T - (I)

DENOTES
CONV.
FRAMING

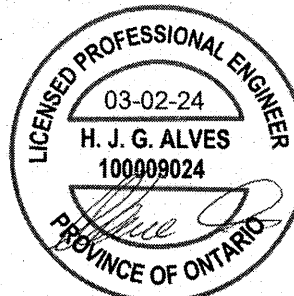
DESIGN CONFORMS WITH OBC 2012
(2019 AMENDMENT)
OCCUPANCY: RESIDENTIAL PART: 9
Ss = 27.2 psf Sr = 8.4 psf

DESIGN LOADS:
TCSL = 23.3 psf
TCDL = 6.0 psf
BCLL = 0.0 psf
BCDL = 7.4 psf

All conventional framing to conform with
Part 9 of O.B.C. 2012. Roof rafters that
cross over or meet trusses to be min. 2x4
SPF #2 @ 24" o/c with a vertical post to the
truss at each cross point. Vertical posts
longer than 6' to have lateral bracing so that
the distance between the post end points
and lateral bracing does not exceed 6'.

ALL ROOF PITCHES ARE 6/12 UNLESS OTHERWISE NOTED

A: 12" RAISED COFF. CEILING



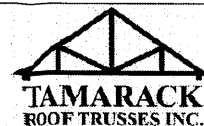
Structural component only
DWG# T-2406550

TRUSS PLACEMENT PLAN.

This is a truss placement plan only, NOT a final roof framing plan. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual truss drawings for each component identified on this placement plan.

Please verify that all dimensions match the dimensions found on the job. The Building designer is responsible for the temporary/permanent bracing of the roof and floor system and its integration into the bracing of the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer unless otherwise noted in this plan. Building designer to review and approve this plan to ascertain conformity to his overall structural plan.

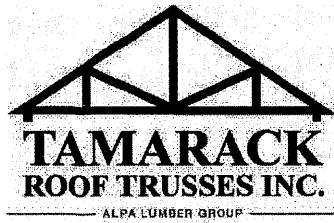
DWG# T-2406377 to T-2406477,
T-1800218



Job Track: **52749**
Layout ID: **425914**
Plan Log: **206082**

Builder / Location:
ROYAL PINE HOMES / BRAMPTON
Project:
SUMMER RIDGE ESTATES INC.
Date: 2024-03-01 Designer:

Model / Elevation:
BLK 291 / UNITS 1-8 (COFF. IN MASTER BED)
Milek ver 8.6.3.353
THESE DRAWINGS CONSTITUTE THE PROPERTY OF TAMARACK ROOF TRUSSES INC. SHALL NOT BE REPRODUCED, PUBLISHED, OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.

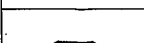
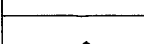
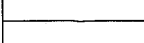
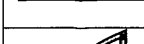


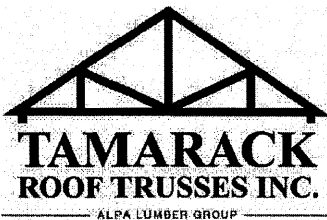
DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: SUMMER RIDGE ESTATES INC.
 Location: BRAMPTON
 Model: BLK 291
 Lot #:
 Elevation: B UNIT 1-BLK 291

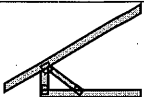
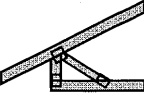
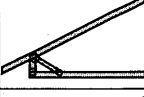
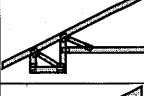
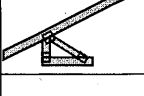
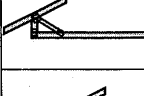
Job Track: 52749
 PlanLog: 206082
 Layout ID: 425933
 Ref #
 Page: 1 of 2
 Date: 02-29-2024
 Designer:
 Sales Rep: Rick DiCiano

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	T1S Hip Girder	6 /12	21-10-00	4-01-12	2 x 4	1-04-08 1-04-08	1-02-08 1-02-08	185.72 123.67		
	1	T2S Hip	6 /12	21-10-00	5-01-12	2 x 4	1-04-08 1-04-08	1-02-08 1-02-08	94.52 61.17		
	1	T3S Hip	6 /12	21-10-00	6-01-12	2 x 4	1-04-08 1-04-08	1-02-08 1-02-08	101.68 64.67		
	8	T4 Common	6 /12	21-10-00	6-08-00	2 x 4	1-04-08 1-04-08	1-02-08 1-02-08	719.52 448.00		
	3	T4S Roof Special	6 /12	21-10-00	6-08-00	2 x 4	1-04-08 1-04-08	1-02-08 1-02-08	293.92 185.50		
	3	T5 Hip	6 /12	21-10-00	6-09-04	2 x 4	1-04-08 1-04-08	1-02-08 3-05-08	297.91 191.50		
	1	T6 Hip Girder	6 /12	21-10-00	5-09-04	2 x 4 2 x 6	1-04-08 1-04-08	1-02-08 3-05-08	112.57 70.67		
	1	T7 Hip Girder	6 /12	13-06-00	3-07-02	2 x 4	1-04-08 1-04-08	1-02-08 1-02-08	53.67 35.50		
	1	T8 Common	6 /12	13-01-08	4-07-00	2 x 4	1-04-08	1-02-08 1-04-12	51.51 32.67		
	1	T9 Half Hip	6 /12	13-01-08	4-10-12	2 x 4	1-04-08	1-02-08 4-10-12	54.71 35.00		
	1 2-ply	T10 Monopitch Girder	6 /12	4-07-08	5-09-04	2 x 4 2 x 6	1-04-08	3-05-08 5-09-04	61.87 37.00		
	2	T11 Monopitch	6 /12	4-07-08	5-09-04	2 x 4	1-04-08	1-02-08 5-09-04	64.63 44.33		
	1	T12 Half Hip Girder	6 /12	4-07-08	4-09-04	2 x 4	1-04-08	1-02-08 4-09-04	30.43 21.00		
	1	T55 Roof Special	4 /12	20-11-00	6-04-03	2 x 4	1-03-08 1-09-08	4-10 1-09-15	78.88 50.33		

 TAMARACK ROOF TRUSSES INC. ALFA LUMBER GROUP	DELIVERY SHIPLIST							
	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: SUMMER RIDGE ESTATES INC. Location: BRAMPTON Model: BLK 291 Lot #: Elevation: B UNIT 1-BLK 291	Job Track: 52749 PlanLog: 206082 Layout ID: 425933 Ref # Page: 2 of 2 Date: 02-29-2024 Designer: Sales Rep: Rick DiCiano						

Roof Trusses

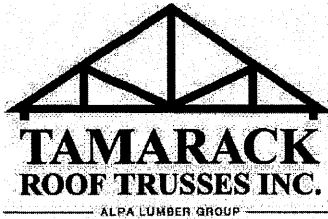
PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	T55G GABLE	4 /12	20-11-00	6-04-03	2 x 4	1-03-08 1-09-08	4-10 1-09-15	81.17 52.17		
	7	J1 Jack-Open	7 /12	3-10-08	3-07-02	2 x 4	1-04-08	1-04-00 3-07-02	97.11 63.00		
	1	J3 Jack-Open	6 /12	2-07-08	2-06-04	2 x 4	1-04-08	1-02-08 2-06-04	10.39 7.00		
	1	J4 Jack-Open	6 /12	2-07-08	4-09-04	2 x 4	1-04-08	3-05-08 4-09-04	14.33 9.33		
	2	J11 Jack-Open	6 /12	5-10-08	4-01-12	2 x 4	1-04-08	1-02-08 4-01-12	36.48 23.33		
	6	J11S Jack-Open	6 /12	5-10-08	4-01-12	2 x 4	1-04-08	1-02-08 3-01-12	126.71 88.00		
	1	C1 Jack-Open	6 /12	1-09-07	2-01-04	2 x 4	1-04-08 1-01	1-02-08 2-01-04	8.47 5.67		
	1	C2 Jack-Open	6 /12	1-10-08	3-01-04	2 x 4	1-04-08 1-10-15	1-02-08 2-01-12	11.02 7.00		
	1	C3 Jack-Open	6 /12	1-09-07	2-01-04	2 x 4	1-04-08 4-01-01	1-02-08 2-01-04	13.03 8.33		
	1	C4 Jack-Open	6 /12	3-09-07	3-01-04	2 x 4	1-04-08 2-01-01	1-02-08 3-01-04	15.58 9.67		

TOTAL # TRUSS= 50 TOTAL BFT OF ALL TRUSSES= 1674.51 BFT. TOTAL WEIGHT OF ALL TRSSES 2615.81 LBS

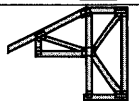
HARDWARE

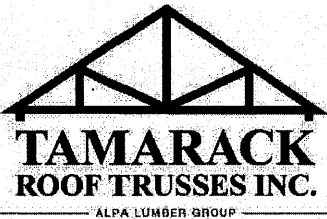
QTY	TYPE	MODEL	LENGTH
1	Hardware	HGUS26-2	
5	Hardware	LUS24	

TOTAL NUMBER OF ITEMS= 6

DELIVERY SHIPLIST				
 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	Lumber Yard:	TAMARACK LUMBER	Job Track:	52749
	Builder:	ROYAL PINE HOMES	PlanLog:	206082
	Project:	SUMMER RIDGE ESTATES INC.	Layout ID:	425934
	Location:	BRAMPTON	Ref #	
	Model:	BLK 291	Page:	1 of 2
	Lot #:		Date:	02-29-2024
	Elevation:	B1 UNIT 2-BLK 291	Designer:	
		Sales Rep:	Rick DiCiano	

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
	4	T11 Monopitch	6 /12	4-07-08	5-09-04	2 x 4	1-04-08	1-02-08 5-09-04	129.26 88.67		
	2	T12 Half Hip Girder	6 /12	4-07-08	4-09-04	2 x 4	1-04-08	1-02-08 4-09-04	60.85 42.00		
	1 2-ply	T15 Half Hip Girder	6 /12	21-09-08	4-04-06	2 x 4 2 x 6	1-04-08	1-02-08 4-04-06	220.42 134.00		
	1 2-ply	T15S Half Hip Girder	6 /12	21-09-08	4-04-06	2 x 4	1-04-08	1-02-08 4-04-06	197.4 128.00		
	1	T16 Half Hip	6 /12	21-09-08	5-02-06	2 x 4	1-04-08	1-02-08 5-02-06	88.52 55.17		
	1	T16S Half Hip	6 /12	21-09-08	5-02-06	2 x 4	1-04-08	1-02-08 5-02-06	100.24 63.83		
	1	T17 Half Hip	6 /12	21-09-08	6-00-06	2 x 4	1-04-08	1-02-08 6-00-06	92.51 58.17		
	1	T17S Half Hip	6 /12	21-09-08	6-00-06	2 x 4	1-04-08	1-02-08 6-00-06	105.69 68.83		
	2	T18 Half Hip	6 /12	21-09-08	6-10-06	2 x 4	1-04-08	1-02-08 6-10-06	193.8 121.67		
	2	T19 Half Hip	6 /12	21-09-08	7-08-06	2 x 4	1-04-08	1-02-08 7-08-06	203.15 129.00		
	2	T20 Half Hip	6 /12	21-09-08	8-06-06	2 x 4	1-04-08	1-02-08 8-06-06	200.2 125.33		
	3	T21 Half Hip	6 /12	21-09-08	9-04-06	2 x 4	1-04-08	1-02-08 9-04-06	317.79 197.00		
	1	T30 Hip Girder	6 /12	13-08-00	5-09-04	2 x 4	1-07-00 1-07-00	3-06-12 3-06-12	67.31 43.50		
	1	T31 Hip	6 /12	13-08-00	6-09-04	2 x 4		3-06-12 3-06-12	68.45 45.00		

 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	DELIVERY SHIPLIST			
	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: SUMMER RIDGE ESTATES INC. Location: BRAMPTON Model: BLK 291 Lot #: Elevation: B1 UNIT 2-BLK 291	Job Track: 52749 PlanLog: 206082 Layout ID: 425934 Ref # Page: 2 of 2 Date: 02-29-2024 Designer: Sales Rep: Rick DiCiano		

Roof Trusses

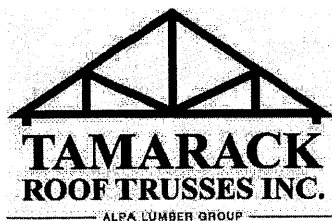
PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	T32 Common	6 /12	13-08-00	6-11-12	2 x 4		3-06-12 3-06-12	64.02 40.83		
	1 2-ply	T33 Monopitch Girder	5 /12	7-10-08	4-04-06	2 x 4 2 x 6		1-01-00 4-04-06	73.36 46.33		
	1	T55 Roof Special	4 /12	20-11-00	6-04-03	2 x 4	1-03-08 1-09-08	4-10 1-09-15	78.88 50.33		
	1	T55G GABLE	4 /12	20-11-00	6-04-03	2 x 4	1-03-08 1-09-08	4-10 1-09-15	81.17 52.17		
	8	J2 Jack-Partial	5 /12	7-10-08	4-04-06	2 x 4	1-04-08	1-01-00 4-04-06	225.36 146.67		
	6	J2S Jack-Partial	5 /12	7-10-08	4-04-06	2 x 4	1-04-08	1-01-00 3-04-06	157.83 110.00		
	2	J3 Jack-Open	6 /12	2-07-08	2-06-04	2 x 4	1-04-08	1-02-08 2-06-04	20.78 14.00		
	2	J5 Jack-Open	6 /12	2-05-00	4-09-04	2 x 4	1-07-00	3-06-12 4-09-04	28.58 20.00		

TOTAL # TRUSS= 48 TOTAL BFT OF ALL TRUSSES= 1780.5 BFT. TOTAL WEIGHT OF ALL TRSSES 2775.56 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
21	Hardware	H2.5T	
1	Hardware	HGUS26-2	
1	Hardware	LJS26DS	
8	Hardware	LUS24	

TOTAL NUMBER OF ITEMS= 31



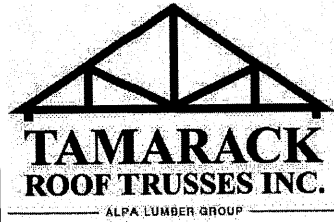
DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: SUMMER RIDGE ESTATES INC.
 Location: BRAMPTON
 Model: BLK 291
 Lot #:
 Elevation: B2 UNIT 3-BLK 291

Job Track: 52749
 PlanLog: 206082
 Layout ID: 425935
 Ref #
 Page: 1 of 3
 Date: 02-29-2024
 Designer:
 Sales Rep: Rick DiCiano

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	T15S Half Hip Girder	6 /12	21-09-08	4-04-06	2 x 4	1-04-08	1-02-08 4-04-06	197.4 128.00		
	1	T16S Half Hip	6 /12	21-09-08	5-02-06	2 x 4	1-04-08	1-02-08 5-02-06	100.24 63.83		
	1	T17S Half Hip	6 /12	21-09-08	6-00-06	2 x 4	1-04-08	1-02-08 6-00-06	105.69 68.83		
	1	T18 Half Hip	6 /12	21-09-08	6-10-06	2 x 4	1-04-08	1-02-08 6-10-06	96.9 60.83		
	1	T19 Half Hip	6 /12	21-09-08	7-08-06	2 x 4	1-04-08	1-02-08 7-08-06	101.57 64.50		
	1	T20 Half Hip	6 /12	21-09-08	8-06-06	2 x 4	1-04-08	1-02-08 8-06-06	100.1 62.67		
	1	T21 Half Hip	6 /12	21-09-08	9-04-06	2 x 4	1-04-08	1-02-08 9-04-06	105.93 65.67		
	3	T23 Half Hip	6 /12	21-09-08	10-01-12	2 x 4	1-04-08	1-02-08 10-01-12	332.75 204.50		
	1	T24 Half Hip	6 /12	21-09-08	9-01-12	2 x 4	1-04-08	1-02-08 9-01-12	100.29 62.00		
	1	T25 Half Hip	6 /12	21-09-08	8-01-12	2 x 4	1-04-08	1-02-08 8-01-12	98.11 61.00		
	1	T26 Half Hip	6 /12	21-09-08	7-01-12	2 x 4	1-04-08	1-02-08 7-01-12	98.45 61.17		
	1	T27 Half Hip	6 /12	21-09-08	6-01-12	2 x 4	1-04-08	1-02-08 6-01-12	93.09 57.50		
	1	T28 Half Hip	6 /12	21-09-08	5-01-12	2 x 4	1-04-08	1-02-08 5-01-12	88.26 55.17		
	1 2-ply	T29 Half Hip Girder	6 /12	21-09-08	4-01-12	2 x 4 2 x 6	1-04-08	1-02-08 4-01-12	212.1 131.67		



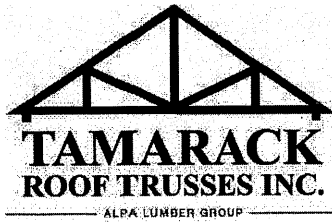
DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: SUMMER RIDGE ESTATES INC.
 Location: BRAMPTON
 Model: BLK 291
 Lot #:
 Elevation: B2 UNIT 3-BLK 291

Job Track: 52749
 PlanLog: 206082
 Layout ID: 425935
 Ref #
 Page: 2 of 3
 Date: 02-29-2024
 Designer:
 Sales Rep: Rick DiCiano

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	T36 Half Hip Girder	6 / 12	8-08-08	4-01-12	2 x 4		1-02-08 4-01-12	37.79 24.50		
	1	T37 Half Hip	6 / 12	8-08-08	4-10-12	2 x 4		1-02-08 4-10-12	40.93 27.33		
	1	T38 Hip	6 / 12	8-10-00	5-03-12	2 x 4	1-04-08	3-05-08 3-05-08	49.07 31.17		
	1	T38Z Hip Girder	6 / 12	8-10-00	5-03-12	2 x 4	1-04-08	3-05-08 3-05-08	49.07 31.17		
	1 2-ply	T39 Monopitch Girder	6 / 12	5-10-08	4-01-12	2 x 4 2 x 6		1-02-08 4-01-12	58.76 37.67		
	1 2-ply	T39Z Monopitch Girder	6 / 12	5-10-08	4-01-12	2 x 4 2 x 6		1-02-08 4-01-12	58.76 37.67		
	2	T40 Monopitch	6 / 12	3-08-08	5-03-12	2 x 4	1-04-08	1-02-08 5-03-12	56.75 39.33		
	2	T41 Half Hip Girder	6 / 12	3-08-08	4-03-12	2 x 4	1-04-08	1-02-08 4-03-12	54.15 37.67		
	1	T55 Roof Special	4 / 12	20-11-00	6-04-03	2 x 4	1-03-08 1-09-08	4-10 1-09-15	78.88 50.33		
	1	T55G GABLE	4 / 12	20-11-00	6-04-03	2 x 4	1-03-08 1-09-08	4-10 1-09-15	81.17 52.17		
	5	J2 Jack-Partial	5 / 12	7-10-08	4-04-06	2 x 4	1-04-08	1-01-00 4-04-06	140.85 91.67		
	6	J2S Jack-Partial	5 / 12	7-10-08	4-04-06	2 x 4	1-04-08	1-01-00 3-04-06	157.83 110.00		
	2	J6 Jack-Open	6 / 12	1-08-08	2-00-12	2 x 4	1-04-08	1-02-08 2-00-12	16.35 11.33		
	2	J7 Jack-Open	6 / 12	1-08-08	4-03-12	2 x 4	1-04-08	3-05-08 4-03-12	24.23 16.00		



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: SUMMER RIDGE ESTATES INC.
 Location: BRAMPTON
 Model: BLK 291
 Lot #:
 Elevation: B2 UNIT 3-BLK 291

Job Track: 52749
 PlanLog: 206082
 Layout ID: 425935
 Ref #
 Page: 3 of 3
 Date: 02-29-2024
 Designer:
 Sales Rep: Rick DiCiano

Roof Trusses

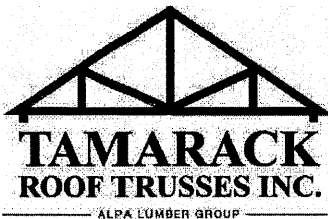
PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	3	J11 Jack-Open	6 / 12	5-10-08	4-01-12	2 x 4	1-04-08	1-02-08 4-01-12	54.72 35.00		
	1	C1 Jack-Open	6 / 12	1-09-07	2-01-04	2 x 4	1-04-08 1-01	1-02-08 2-01-04	8.47 5.67		
	1	C2 Jack-Open	6 / 12	1-10-08	3-01-04	2 x 4	1-04-08 1-10-15	1-02-08 2-01-12	11.02 7.00		
	1	C3 Jack-Open	6 / 12	1-09-07	2-01-04	2 x 4	1-04-08 4-01-01	1-02-08 2-01-04	13.03 8.33		
	1	C4 Jack-Open	6 / 12	3-09-07	3-01-04	2 x 4	1-04-08 2-01-01	1-02-08 3-01-04	15.58 9.67		

TOTAL # TRUSS= 54 TOTAL BFT OF ALL TRUSSES= 1811.02 BFT. TOTAL WEIGHT OF ALL TRSSES 2838.31 LBS

HARDWARE

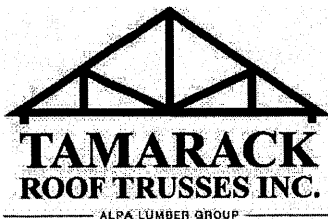
QTY	TYPE	MODEL	LENGTH
20	Hardware	H2.5T	
2	Hardware	HGUS26-2	
10	Hardware	LUS24	

TOTAL NUMBER OF ITEMS= 32

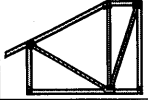
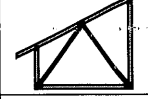
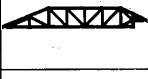
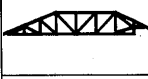
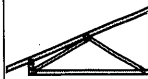
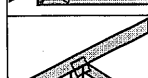
DELIVERY SHIPLIST				
 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	Lumber Yard:	TAMARACK LUMBER	Job Track:	52749
	Builder:	ROYAL PINE HOMES	PlanLog:	206082
	Project:	SUMMER RIDGE ESTATES INC.	Layout ID:	425936
	Location:	BRAMPTON	Ref #	
	Model:	BLK 291	Page:	1 of 3
	Lot #:		Date:	02-29-2024
	Elevation:	B1 UNIT 4-BLK 291	Designer:	
		Sales Rep:	Rick DiCiano	

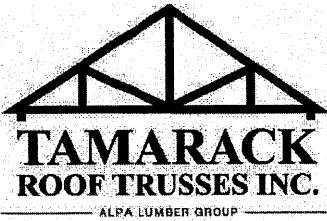
Roof Trusses

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	T39Z2 Monopitch Girder	6 /12	5-10-08	4-01-12	2 x 4 2 x 6		1-02-08 4-01-12	58.76 37.67		
	1 2-ply	T45S Half Hip Girder	6 /12	15-10-08	4-04-06	2 x 4	1-04-08	1-02-08 4-04-06	147.56 96.33		
	1	T46S Half Hip	6 /12	15-10-08	5-02-06	2 x 4	1-04-08	1-02-08 5-02-06	75.45 48.50		
	1	T47S Half Hip	6 /12	15-10-08	6-00-06	2 x 4	1-04-08	1-02-08 6-00-06	79.8 52.50		
	1	T48S Half Hip	6 /12	15-10-08	6-10-06	2 x 4	1-04-08	1-02-08 6-10-06	86.16 56.33		
	1	T49 Half Hip	6 /12	15-10-08	7-08-06	2 x 4	1-04-08	1-02-08 7-08-06	75.06 47.50		
	1	T50 Half Hip	6 /12	15-10-08	8-06-06	2 x 4	1-04-08	1-02-08 8-06-06	79.07 49.67		
	6	T51 Monopitch	6 /12	15-10-08	9-01-12	2 x 4	1-04-08	1-02-08 9-01-12	423.25 262.00		
	1	T55 Roof Special	4 /12	20-11-00	6-04-03	2 x 4	1-03-08 1-09-08	4-10 1-09-15	78.88 50.33		
	1	T55G GABLE	4 /12	20-11-00	6-04-03	2 x 4	1-03-08 1-09-08	4-10 1-09-15	81.17 52.17		
	1	T61 Half Hip Girder	6 /12	15-10-08	4-01-12	2 x 4 2 x 6	1-04-08	1-02-08 4-01-12	80.37 49.67		
	1	T62 Half Hip	6 /12	15-10-08	5-01-12	2 x 4	1-04-08	1-02-08 5-01-12	69.69 43.33		
	1	T63 Half Hip	6 /12	15-10-08	6-01-12	2 x 4	1-04-08	1-02-08 6-01-12	68.58 42.50		
	1	T64 Half Hip	6 /12	15-10-08	7-01-12	2 x 4	1-04-08	1-02-08 7-01-12	72.61 44.67		

DELIVERY SHIPLIST				
 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	Lumber Yard:	TAMARACK LUMBER	Job Track:	52749
	Builder:	ROYAL PINE HOMES	PlanLog:	206082
	Project:	SUMMER RIDGE ESTATES INC.	Layout ID:	425936
	Location:	BRAMPTON	Ref #	
	Model:	BLK 291	Page:	2 of 3
	Lot #:		Date:	02-29-2024
	Elevation:	B1 UNIT 4-BLK 291	Designer:	
		Sales Rep:	Rick DiCiano	

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	T65 Half Hip	6 /12	15-10-08	8-01-12	2 x 4	1-04-08	1-02-08 8-01-12	77.17 48.00		
	1	T66 Half Hip Girder	6 /12	7-07-08	2-11-04	2 x 4	1-04-08	1-02-08 2-11-04	31.41 21.33		
	1	T67 Half Hip	6 /12	7-07-08	6-02-04	2 x 4	1-04-08	3-05-08 6-02-04	44.03 27.67		
	2	T68 Monopitch	6 /12	7-07-08	7-03-04	2 x 4	1-04-08	3-05-08 7-03-04	81.79 50.67		
	1 3-ply	T69 Hip Girder	5 /12	49-07-00	7-03-04	2 x 6	1-04-08 1-04-08	1-01-00 1-02-08	974.93 609.00		
	1	T70 Hip	5 /12	49-07-00	8-03-04	2 x 6	1-04-08 1-04-08	1-01-00 1-02-08	328.7 201.00		
	1	T71 Hip	5 /12	49-07-00	9-03-04	2 x 6	1-04-08 1-04-08	1-01-00 1-02-08	348.42 213.00		
	1	T72 Hip	5 /12	49-07-00	10-01-00	2 x 6	1-04-08 1-04-08	1-01-00 1-02-08	341.83 206.67		
	2	J2 Jack-Partial	5 /12	7-10-08	4-04-06	2 x 4	1-04-08	1-01-00 4-04-06	56.34 36.67		
	6	J2S Jack-Partial	5 /12	7-10-08	4-04-06	2 x 4	1-04-08	1-01-00 3-04-06	157.83 110.00		
	3	J9 Jack-Open	6 /12	3-05-08	2-11-04	2 x 4	1-04-08	1-02-08 2-11-04	37.21 25.00		
	2	J11 Jack-Open	6 /12	5-10-08	4-01-12	2 x 4	1-04-08	1-02-08 4-01-12	36.48 23.33		
	2	C1 Jack-Open	6 /12	1-09-07	2-01-04	2 x 4	1-04-08 1-01	1-02-08 2-01-04	16.93 11.33		
	1	C2 Jack-Open	6 /12	1-10-08	3-01-04	2 x 4	1-04-08 1-10-15	1-02-08 2-01-12	11.02 7.00		

 TAMARACK ROOF TRUSSES INC. ALFA LUMBER GROUP	DELIVERY SHIPLIST						
	Lumber Yard: TAMARACK LUMBER						Job Track: 52749
	Builder: ROYAL PINE HOMES						PlanLog: 206082
	Project: SUMMER RIDGE ESTATES INC.						Layout ID: 425936
	Location: BRAMPTON						Ref #
	Model: BLK 291						Page: 3 of 3
Lot #:						Date: 02-29-2024	
Elevation: B1 UNIT 4-BLK 291						Designer:	
						Sales Rep: Rick DiCiano	

Roof Trusses

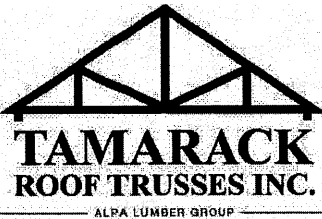
PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	C3 Jack-Open	6 /12	1-09-07	2-01-04	2 x 4	1-04-08 4-01-01	1-02-08 2-01-04	13.03 8.33		
	1	C4 Jack-Open	6 /12	3-09-07	3-01-04	2 x 4	1-04-08 2-01-01	1-02-08 3-01-04	15.58 9.67		
	1	C5 Jack-Open	6 /12	1-09-07	2-01-04	2 x 4	1-04-08 1-08-01	1-02-08 2-01-04	10.27 7.00		

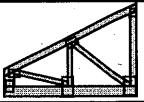
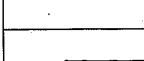
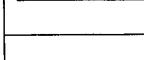
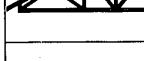
TOTAL # TRUSS= 51 TOTAL BFT OF ALL TRUSSES= 2548.84 BFT. TOTAL WEIGHT OF ALL TRSSES 4059.38 LBS

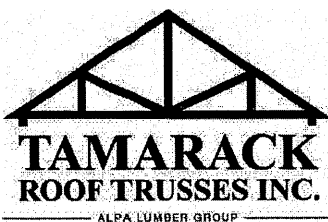
HARDWARE

QTY	TYPE	MODEL	LENGTH
16	Hardware	H2.5T	
2	Hardware	HGUS26-2	
1	Hardware	LJS26DS	
22	Hardware	LUS24	

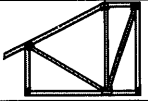
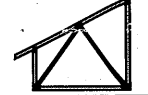
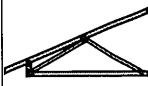
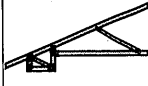
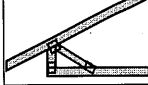
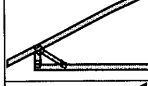
TOTAL NUMBER OF ITEMS= 41

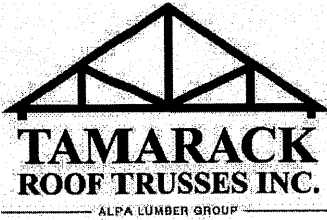
 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST							
	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: SUMMER RIDGE ESTATES INC. Location: BRAMPTON Model: BLK 291 Lot #: Elevation: B2 UNIT 5-BLK 291	Job Track: 52749 PlanLog: 206082 Layout ID: 425937 Ref # Page: 1 of 3 Date: 02-29-2024 Designer: Sales Rep: Rick DiCiano						

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	T39Z2 Monopitch Girder	6 /12	5-10-08	4-01-12	2 x 4 2 x 6		1-02-08 4-01-12	58.76 37.67		
	1 2-ply	T45S Half Hip Girder	6 /12	15-10-08	4-04-06	2 x 4	1-04-08	1-02-08 4-04-06	147.56 96.33		
	1	T46S Half Hip	6 /12	15-10-08	5-02-06	2 x 4	1-04-08	1-02-08 5-02-06	75.45 48.50		
	1	T47S Half Hip	6 /12	15-10-08	6-00-06	2 x 4	1-04-08	1-02-08 6-00-06	79.8 52.50		
	1	T48S Half Hip	6 /12	15-10-08	6-10-06	2 x 4	1-04-08	1-02-08 6-10-06	86.16 56.33		
	1	T49 Half Hip	6 /12	15-10-08	7-08-06	2 x 4	1-04-08	1-02-08 7-08-06	75.06 47.50		
	1	T50 Half Hip	6 /12	15-10-08	8-06-06	2 x 4	1-04-08	1-02-08 8-06-06	79.07 49.67		
	6	T51 Monopitch	6 /12	15-10-08	9-01-12	2 x 4	1-04-08	1-02-08 9-01-12	423.25 262.00		
	1	T55 Roof Special	4 /12	20-11-00	6-04-03	2 x 4	1-03-08 1-09-08	4-10 1-09-15	78.88 50.33		
	1	T55G GABLE	4 /12	20-11-00	6-04-03	2 x 4	1-03-08 1-09-08	4-10 1-09-15	81.17 52.17		
	1	T61 Half Hip Girder	6 /12	15-10-08	4-01-12	2 x 4 2 x 6	1-04-08	1-02-08 4-01-12	80.37 49.67		
	1	T62 Half Hip	6 /12	15-10-08	5-01-12	2 x 4	1-04-08	1-02-08 5-01-12	69.69 43.33		
	1	T63 Half Hip	6 /12	15-10-08	6-01-12	2 x 4	1-04-08	1-02-08 6-01-12	68.58 42.50		
	1	T64 Half Hip	6 /12	15-10-08	7-01-12	2 x 4	1-04-08	1-02-08 7-01-12	72.61 44.67		

DELIVERY SHIPLIST				
	Lumber Yard:	TAMARACK LUMBER	Job Track:	52749
	Builder:	ROYAL PINE HOMES	PlanLog:	206082
	Project:	SUMMER RIDGE ESTATES INC.	Layout ID:	425937
	Location:	BRAMPTON	Ref #	
	Model:	BLK 291	Page:	2 of 3
	Lot #:		Date:	02-29-2024
	Elevation:	B2 UNIT 5-BLK 291	Designer:	
		Sales Rep:	Rick DiCiano	

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	T65 Half Hip	6 /12	15-10-08	8-01-12	2 x 4	1-04-08	1-02-08 8-01-12	77.17 48.00		
	1	T66 Half Hip Girder	6 /12	7-07-08	2-11-04	2 x 4	1-04-08	1-02-08 2-11-04	31.41 21.33		
	1	T67 Half Hip	6 /12	7-07-08	6-02-04	2 x 4	1-04-08	3-05-08 6-02-04	44.03 27.67		
	2	T68 Monopitch	6 /12	7-07-08	7-03-04	2 x 4	1-04-08	3-05-08 7-03-04	81.79 50.67		
	1 3-ply	T69 Hip Girder	5 /12	49-07-00	7-03-04	2 x 6	1-04-08 1-04-08	1-01-00 1-02-08	974.93 609.00		
	1	T70 Hip	5 /12	49-07-00	8-03-04	2 x 6	1-04-08 1-04-08	1-01-00 1-02-08	328.7 201.00		
	1	T71 Hip	5 /12	49-07-00	9-03-04	2 x 6	1-04-08 1-04-08	1-01-00 1-02-08	348.42 213.00		
	1	T72 Hip	5 /12	49-07-00	10-01-00	2 x 6	1-04-08 1-04-08	1-01-00 1-02-08	341.83 206.67		
	2	J2 Jack-Partial	5 /12	7-10-08	4-04-06	2 x 4	1-04-08	1-01-00 4-04-06	56.34 36.67		
	6	J2S Jack-Partial	5 /12	7-10-08	4-04-06	2 x 4	1-04-08	1-01-00 3-04-06	157.83 110.00		
	3	J9 Jack-Open	6 /12	3-05-08	2-11-04	2 x 4	1-04-08	1-02-08 2-11-04	37.21 25.00		
	2	J11 Jack-Open	6 /12	5-10-08	4-01-12	2 x 4	1-04-08	1-02-08 4-01-12	36.48 23.33		
	2	C1 Jack-Open	6 /12	1-09-07	2-01-04	2 x 4	1-04-08 1-01	1-02-08 2-01-04	16.93 11.33		
	1	C2 Jack-Open	6 /12	1-10-08	3-01-04	2 x 4	1-04-08 1-10-15	1-02-08 2-01-12	11.02 7.00		

 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST	
	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: SUMMER RIDGE ESTATES INC. Location: BRAMPTON Model: BLK 291 Lot #: Elevation: B2 UNIT 5-BLK 291	Job Track: 52749 PlanLog: 206082 Layout ID: 425937 Ref # Page: 3 of 3 Date: 02-29-2024 Designer: Sales Rep: Rick DiCiano

Roof Trusses

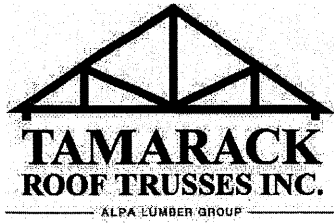
PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	C3 Jack-Open	6 /12	1-09-07	2-01-04	2 x 4	1-04-08 4-01-01	1-02-08 2-01-04	13.03 8.33		
	1	C4 Jack-Open	6 /12	3-09-07	3-01-04	2 x 4	1-04-08 2-01-01	1-02-08 3-01-04	15.58 9.67		
	1	C5 Jack-Open	6 /12	1-09-07	2-01-04	2 x 4	1-04-08 1-08-01	1-02-08 2-01-04	10.27 7.00		

TOTAL # TRUSS= 51 TOTAL BFT OF ALL TRUSSES= 2548.84 BFT. TOTAL WEIGHT OF ALL TRSSES 4059.38 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
16	Hardware	H2.5T	
2	Hardware	HGUS26-2	
1	Hardware	LJS26DS	
22	Hardware	LUS24	

TOTAL NUMBER OF ITEMS= 41



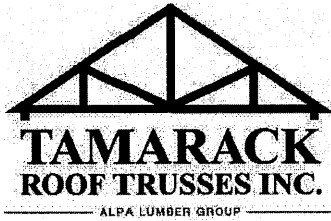
DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: SUMMER RIDGE ESTATES INC.
 Location: BRAMPTON
 Model: BLK 291
 Lot #:
 Elevation: B1 UNIT 6-BLK 291

Job Track: 52749
 PlanLog: 206082
 Layout ID: 425938
 Ref #
 Page: 1 of 3
 Date: 02-29-2024
 Designer:
 Sales Rep: Rick DiCiano

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	T15S Half Hip Girder	6 /12	21-09-08	4-04-06	2 x 4	1-04-08	1-02-08 4-04-06	197.4 128.00		
	1	T16S Half Hip	6 /12	21-09-08	5-02-06	2 x 4	1-04-08	1-02-08 5-02-06	100.24 63.83		
	1	T17S Half Hip	6 /12	21-09-08	6-00-06	2 x 4	1-04-08	1-02-08 6-00-06	105.89 68.83		
	1	T18S Half Hip	6 /12	21-09-08	6-10-06	2 x 4	1-04-08	1-02-08 6-10-06	113.2 73.67		
	1	T19S Half Hip	6 /12	21-09-08	7-08-06	2 x 4	1-04-08	1-02-08 7-08-06	115.8 75.00		
	2	T20 Half Hip	6 /12	21-09-08	8-06-06	2 x 4	1-04-08	1-02-08 8-06-06	200.2 125.33		
	2	T21 Half Hip	6 /12	21-09-08	9-04-06	2 x 4	1-04-08	1-02-08 9-04-06	211.86 131.33		
	3	T22 Half Hip	6 /12	21-09-08	10-02-06	2 x 4	1-04-08	1-02-08 10-02-06	333.57 204.50		
	1	T26 Half Hip	6 /12	21-09-08	7-01-12	2 x 4	1-04-08	1-02-08 7-01-12	98.45 61.17		
	1	T27 Half Hip	6 /12	21-09-08	6-01-12	2 x 4	1-04-08	1-02-08 6-01-12	93.09 57.50		
	1	T28 Half Hip	6 /12	21-09-08	5-01-12	2 x 4	1-04-08	1-02-08 5-01-12	88.26 55.17		
	1 2-ply	T29Z Half Hip Girder	6 /12	21-09-08	4-01-12	2 x 4 2 x 6	1-04-08	1-02-08 4-01-12	212.1 131.67		
	1 2-ply	T39Z4 Monopitch Girder	6 /12	5-10-08	4-01-12	2 x 4 2 x 6		1-02-08 4-01-12	58.76 37.67		
	1	T75 Hip	6 /12	21-09-08	8-01-12	2 x 4	1-04-08	1-02-08 8-00-04	98.11 61.00		



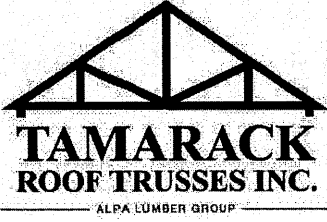
DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: SUMMER RIDGE ESTATES INC.
 Location: BRAMPTON
 Model: BLK 291
 Lot #:
 Elevation: B1 UNIT 6-BLK 291

Job Track: 52749
 PlanLog: 206082
 Layout ID: 425938
 Ref #
 Page: 2 of 3
 Date: 02-29-2024
 Designer:
 Sales Rep: Rick DiCiano

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	T76 Hip	6 /12	21-09-08	9-01-12	2 x 4	1-04-08	1-02-08 8-00-04	102.71 64.17		
	1	T77 Common	6 /12	21-09-08	10-00-12	2 x 4	1-04-08	1-02-08 8-00-04	109.08 67.50		
	1	T78 Hip Girder	6 /12	13-00-00	5-04-12	2 x 4	1-07-00 1-07-00	3-06-12 3-06-12	70.12 45.83		
	1	T79 - Hip	6 /12	13-00-00	6-04-12	2 x 4		3-06-12 3-06-12	62.96 40.67		
	4	T80 Monopitch	6 /12	3-10-08	5-04-12	2 x 4	1-04-08	1-02-08 3-01-12	81.25 56.00		
	2	T81 Half Hip	6 /12	3-10-08	4-04-12	2 x 4	1-04-08	1-02-08 2-01-12	41.31 28.33		
	1	T91C Roof Special	4 /12	25-11-00	7-07-03	2 x 4	1-03-08 1-09-08	4-10 1-09-15	102.58 63.50		
	1	T91G GABLE	4 /12	25-11-00	7-07-03	2 x 4	1-03-08 1-09-08	4-10 1-09-15	105.98 66.50		
	5	J2 Jack-Partial	5 /12	7-10-08	4-04-06	2 x 4	1-04-08	1-01-00 4-04-06	140.85 91.67		
	6	J2S Jack-Partial	5 /12	7-10-08	4-04-06	2 x 4	1-04-08	1-01-00 3-04-06	157.83 110.00		
	2	J11 Jack-Open	6 /12	5-10-08	4-01-12	2 x 4	1-04-08	1-02-08 4-01-12	36.48 23.33		
	1	C1 Jack-Open	6 /12	1-09-07	2-01-04	2 x 4	1-04-08 1-01	1-02-08 2-01-04	8.47 5.67		
	1	C2 Jack-Open	6 /12	1-10-08	3-01-04	2 x 4	1-04-08 1-10-15	1-02-08 2-01-12	11.02 7.00		
	1	C3 Jack-Open	6 /12	1-09-07	2-01-04	2 x 4	1-04-08 4-01-01	1-02-08 2-01-04	13.03 8.33		

 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST	
	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: SUMMER RIDGE ESTATES INC. Location: BRAMPTON Model: BLK 291 Lot #: Elevation: B1 UNIT 6-BLK 291	Job Track: 52749 PlanLog: 206082 Layout ID: 425938 Ref # Page: 3 of 3 Date: 02-29-2024 Designer: Sales Rep: Rick DiCiano

Roof Trusses

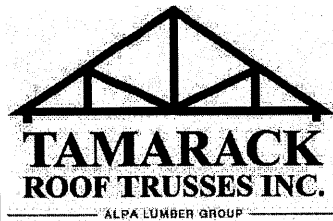
PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	C4 Jack-Open	6 /12	3-09-07	3-01-04	2 x 4	1-04-08 2-01-01	1-02-08 3-01-04	15.58 9.67		

TOTAL # TRUSS= 50
TOTAL BFT OF ALL TRUSSES= 1962.84 BFT.
TOTAL WEIGHT OF ALL TRSSES 3085.97 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
23	Hardware	H2.5T	
1	Hardware	HGUS26-2	
1	Hardware	LJS26DS	
7	Hardware	LUS24	

TOTAL NUMBER OF ITEMS= 32



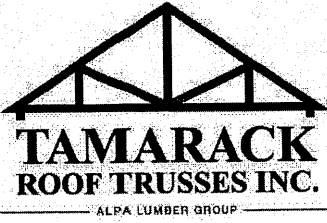
DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: SUMMER RIDGE ESTATES INC.
 Location: BRAMPTON
 Model: BLK 291
 Lot #:
 Elevation: B2-UNIT 7-BLK 291

Job Track: 52749
 PlanLog: 206082
 Layout ID: 425939
 Ref #
 Page: 1 of 2
 Date: 02-29-2024
 Designer:
 Sales Rep: Rick DiCiano

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	T15S Half Hip Girder	6 /12	21-09-08	4-04-06	2 x 4	1-04-08	1-02-08 4-04-06	197.4 128.00		
	1 2-ply	T15Z Half Hip Girder	6 /12	21-09-08	4-04-06	2 x 4 2 x 6	1-04-08	1-02-08 4-04-06	220.42 134.00		
	1	T16 Half Hip	6 /12	21-09-08	5-02-06	2 x 4	1-04-08	1-02-08 5-02-06	88.52 55.17		
	1	T16S Half Hip	6 /12	21-09-08	5-02-06	2 x 4	1-04-08	1-02-08 5-02-06	100.24 63.83		
	1	T17 Half Hip	6 /12	21-09-08	6-00-06	2 x 4	1-04-08	1-02-08 6-00-06	92.51 58.17		
	1	T17S Half Hip	6 /12	21-09-08	6-00-06	2 x 4	1-04-08	1-02-08 6-00-06	105.69 68.83		
	1	T18 Half Hip	6 /12	21-09-08	6-10-06	2 x 4	1-04-08	1-02-08 6-10-06	96.9 60.83		
	1	T18S Half Hip	6 /12	21-09-08	6-10-06	2 x 4	1-04-08	1-02-08 6-10-06	113.2 73.67		
	1	T19 Half Hip	6 /12	21-09-08	7-08-06	2 x 4	1-04-08	1-02-08 7-08-06	101.57 64.50		
	1	T19S Half Hip	6 /12	21-09-08	7-08-06	2 x 4	1-04-08	1-02-08 7-08-06	115.8 75.00		
	2	T20 Half Hip	6 /12	21-09-08	8-06-06	2 x 4	1-04-08	1-02-08 8-06-06	200.2 125.33		
	2	T21 Half Hip	6 /12	21-09-08	9-04-06	2 x 4	1-04-08	1-02-08 9-04-06	211.86 131.33		
	3	T22 Half Hip	6 /12	21-09-08	10-02-06	2 x 4	1-04-08	1-02-08 10-02-06	333.57 204.50		
	1 2-ply	T33Z Monopitch Girder	5 /12	7-10-08	4-04-06	2 x 4 2 x 6		1-01-00 4-04-06	73.36 46.33		

 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST				
	Lumber Yard:	TAMARACK LUMBER		Job Track:	52749
	Builder:	ROYAL PINE HOMES		PlanLog:	206082
	Project:	SUMMER RIDGE ESTATES INC.		Layout ID:	425939
	Location:	BRAMPTON		Ref #	
	Model:	BLK 291		Page:	2 of 2
Lot #:			Date:	02-29-2024	
Elevation:	B2 UNIT 7-BLK 291		Designer:		
			Sales Rep:	Rick DiCiano	

Roof Trusses

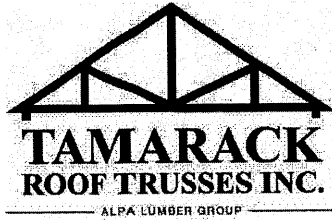
PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	T82 Half Hip Girder	6 / 12	13-02-08	3-11-12	2 x 4		1-02-08 3-11-12	54.6 35.67		
	1	T83 Half Hip	6 / 12	13-02-08	4-11-12	2 x 4		1-02-08 4-11-12	53.48 34.33		
	1	T92C Roof Special	4 / 12	24-11-00	7-04-03	2 x 4	1-03-08 1-09-08	4-10 1-09-15	100.56 63.33		
	1	T92G GABLE	4 / 12	24-11-00	7-04-03	2 x 4	1-03-08 1-09-08	4-10 1-09-15	101.19 65.17		
	9	J2 Jack-Partial	5 / 12	7-10-08	4-04-06	2 x 4	1-04-08	1-01-00 4-04-06	253.53 165.00		
	6	J2S Jack-Partial	5 / 12	7-10-08	4-04-06	2 x 4	1-04-08	1-01-00 3-04-06	157.83 110.00		
	7	J8 Jack-Open	6 / 12	5-10-08	3-11-12	2 x 4	1-00-08	1-00-08 3-11-12	114.33 70.00		

TOTAL # TRUSS= 47 TOTAL BFT OF ALL TRUSSES= 1832.99 BFT. TOTAL WEIGHT OF ALL TRSSES 2886.75 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
21	Hardware	H2.5T	
1	Hardware	HGUS26-2	
1	Hardware	LJS26DS	
1	Hardware	LUS24	

TOTAL NUMBER OF ITEMS= 24



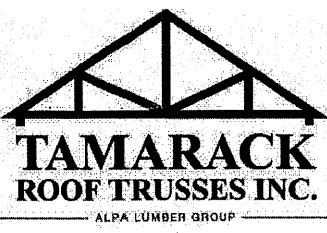
DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: SUMMER RIDGE ESTATES INC.
 Location: BRAMPTON
 Model: BLK 291
 Lot #:
 Elevation: B UNIT 8-BLK 291

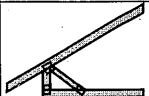
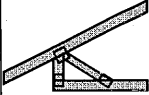
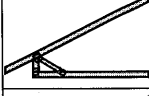
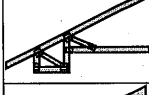
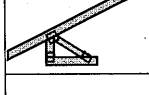
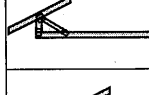
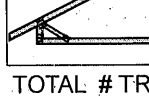
Job Track: 52749
 PlanLog: 206082
 Layout ID: 425940
 Ref #
 Page: 1 of 2
 Date: 02-29-2024
 Designer:
 Sales Rep: Rick DiCiano

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	T1S Hip Girder	6 /12	21-10-00	4-01-12	2 x 4	1-04-08 1-04-08	1-02-08 1-02-08	185.72 123.67		
	1	T2S Hip	6 /12	21-10-00	5-01-12	2 x 4	1-04-08 1-04-08	1-02-08 1-02-08	94.52 61.17		
	1	T3S Hip	6 /12	21-10-00	6-01-12	2 x 4	1-04-08 1-04-08	1-02-08 1-02-08	101.68 64.67		
	8	T4 Common	6 /12	21-10-00	6-08-00	2 x 4	1-04-08 1-04-08	1-02-08 1-02-08	719.52 448.00		
	3	T4S Roof Special	6 /12	21-10-00	6-08-00	2 x 4	1-04-08 1-04-08	1-02-08 1-02-08	293.92 185.50		
	3	T5 Hip	6 /12	21-10-00	6-09-04	2 x 4	1-04-08 1-04-08	1-02-08 3-05-08	297.91 191.50		
	1	T6 Hip Girder	6 /12	21-10-00	5-09-04	2 x 4 2 x 6	1-04-08 1-04-08	1-02-08 3-05-08	112.57 70.67		
	1	T7 Hip Girder	6 /12	13-06-00	3-07-02	2 x 4	1-04-08 1-04-08	1-02-08 1-02-08	53.67 35.50		
	1	T8 Common	6 /12	13-01-08	4-07-00	2 x 4	1-04-08	1-02-08 1-04-12	51.51 32.67		
	1	T9 Half Hip	6 /12	13-01-08	4-10-12	2 x 4	1-04-08	1-02-08 4-10-12	54.71 35.00		
	1 2-ply	T10 Monopitch Girder	6 /12	4-07-08	5-09-04	2 x 4 2 x 6	1-04-08	3-05-08 5-09-04	61.87 37.00		
	2	T11 Monopitch	6 /12	4-07-08	5-09-04	2 x 4	1-04-08	1-02-08 5-09-04	64.63 44.33		
	1	T12 Half Hip Girder	6 /12	4-07-08	4-09-04	2 x 4	1-04-08	1-02-08 4-09-04	30.43 21.00		
	1	T55 Roof Special	4 /12	20-11-00	6-04-03	2 x 4	1-03-08 1-09-08	4-10 1-09-15	78.88 50.33		

 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	DELIVERY SHIPLIST							
	Lumber Yard: TAMARACK LUMBER	Job Track: 52749	PlanLog: 206082 Layout ID: 425940 Ref # Page: 2 of 2 Date: 02-29-2024 Designer: Sales Rep: Rick DiCiano					
Builder: ROYAL PINE HOMES								
Project: SUMMER RIDGE ESTATES INC.								
Location: BRAMPTON								
Model: BLK 291								
Lot #:								
Elevation: B UNIT 8-BLK 291								

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	T55G GABLE	4 /12	20-11-00	6-04-03	2 x 4	1-03-08 1-09-08	4-10 1-09-15	81.17 52.17		
	7	J1 Jack-Open	7 /12	3-10-08	3-07-02	2 x 4	1-04-08	1-04-00 3-07-02	97.11 63.00		
	1	J3 Jack-Open	6 /12	2-07-08	2-06-04	2 x 4	1-04-08	1-02-08 2-06-04	10.39 7.00		
	1	J4 Jack-Open	6 /12	2-07-08	4-09-04	2 x 4	1-04-08	3-05-08 4-09-04	14.33 9.33		
	2	J11 Jack-Open	6 /12	5-10-08	4-01-12	2 x 4	1-04-08	1-02-08 4-01-12	36.48 23.33		
	6	J11S Jack-Open	6 /12	5-10-08	4-01-12	2 x 4	1-04-08	1-02-08 3-01-12	126.71 88.00		
	1	C1 Jack-Open	6 /12	1-09-07	2-01-04	2 x 4	1-04-08 1-01	1-02-08 2-01-04	8.47 5.67		
	1	C2 Jack-Open	6 /12	1-10-08	3-01-04	2 x 4	1-04-08 1-10-15	1-02-08 2-01-12	11.02 7.00		
	1	C3 Jack-Open	6 /12	1-09-07	2-01-04	2 x 4	1-04-08 4-01-01	1-02-08 2-01-04	13.03 8.33		
	1	C4 Jack-Open	6 /12	3-09-07	3-01-04	2 x 4	1-04-08 2-01-01	1-02-08 3-01-04	15.58 9.67		

TOTAL # TRUSS= 50

TOTAL BFT OF ALL TRUSSES= 1674.51 BFT.

TOTAL WEIGHT OF ALL TRSSES 2615.81 LBS

HARDWARE

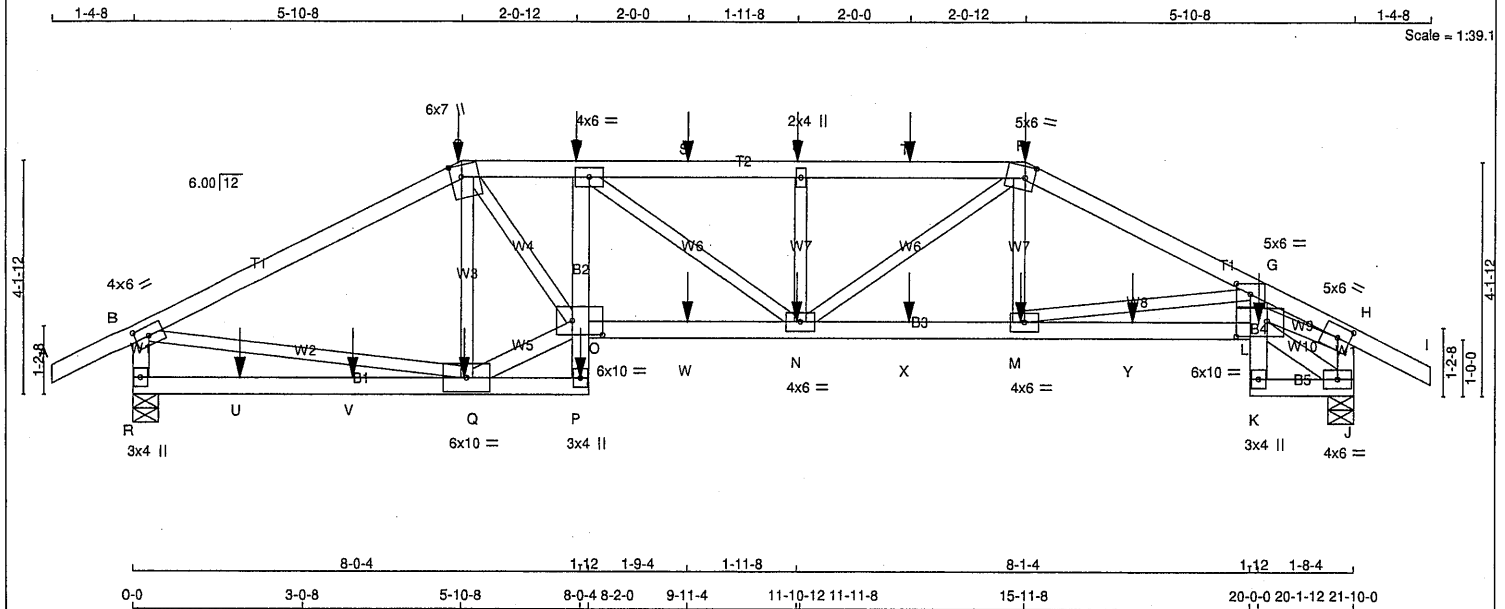
QTY	TYPE	MODEL	LENGTH
1	Hardware	HGUS26-2	
5	Hardware	LUS24	

TOTAL NUMBER OF ITEMS= 6

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T1S	2	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Wed Feb 28 15:02:35 2024 Page 1
ID:sd0FDfb38oVqvTaiRkhtSzPAoD-nXkeudwtJPfYvcAOWi81FP_Pz_PU?FC_OJ5LdzzgawY



TOTAL WEIGHT = 4 X 93 = 371 lb

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 - I	2x4	DRY	No.2	SPF
R - B	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
R - P	2x4	DRY	No.2	SPF
P - D	2x4	DRY	No.2	SPF
O - L	2x4	DRY	No.2	SPF
K - G	2x4	DRY	No.2	SPF
K - J	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
Q - O	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122\"X3\") SPIRAL NAILS		
A - C	12	SIDE(61.0)
C - F	12	SIDE(61.0)
F - I	12	SIDE(61.0)
R - B	12	TOP
J - H	12	TOP
BOTTOM CHORDS : (0.122\"X3\") SPIRAL NAILS		
R - P	12	SIDE(61.0)
P - D	12	TOP
O - L	12	SIDE(61.0)
G - K	12	TOP
K - J	12	TOP
WEBS : (0.122\"X3\") SPIRAL NAILS		
2x3	6	SIDE(2.9)
Q - C	6	
2x4	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
R	2229	0	2229	0	5-8
J	2318	0	2318	0	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN	COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1583	1001 / 0	0 / 0	0 / 0	0 / 0	583 / 0	0 / 0
J	1647	1038 / 0	0 / 0	0 / 0	0 / 0	608 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.30 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED	FACTORED	VERT. LOAD LC1	MAX	MAX.	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1	MAX	MAX.	MAX.	MAX.	MEMB.	FORCE (LBS)
FR-TO		FROM	TO	LENGTH	FR-TO			
A-B	0 / 27	-84.9	-84.9	0.07 (1)	10.00	Q-C	-1621 / 0	0.22 (1)
B-C	-3078 / 0	-84.9	-84.9	0.37 (1)	4.90	D-N	0 / 253	0.03 (1)
C-D	-4326 / 0	-84.9	-84.9	0.10 (1)	4.53	N-E	-594 / 0	0.06 (1)
D-S	-4576 / 0	-84.9	-84.9	0.22 (1)	4.30	N-F	0 / 1067	0.13 (1)
S-E	-4576 / 0	-84.9	-84.9	0.22 (1)	4.30	M-F	0 / 440	0.05 (1)
E-T	-4576 / 0	-84.9	-84.9	0.22 (1)	4.30	M-G	-902 / 0	0.15 (1)
T-F	-4576 / 0	-84.9	-84.9	0.22 (1)	4.30	Q-O	0 / 2901	0.26 (1)
F-G	-4122 / 0	-84.9	-84.9	0.25 (1)	4.47	C-O	0 / 2762	0.34 (1)
G-H	-4677 / 0	-84.9	-84.9	0.13 (1)	4.35	L-J	-374 / 0	0.02 (1)
H-I	0 / 27	-84.9	-84.9	0.07 (1)	10.00	L-H	0 / 4153	0.51 (1)
R-B	-2154 / 0	0.0	0.0	0.12 (1)	7.57	B-Q	0 / 2781	0.34 (1)
J-H	-2112 / 0	0.0	0.0	0.12 (1)	7.63			
R-U	0 / 0	-18.5	-18.5	0.16 (4)	10.00			
U-V	0 / 0	-18.5	-18.5	0.16 (4)	10.00			
V-Q	0 / 0	-18.5	-18.5	0.16 (4)	10.00			
Q-P	0 / 118	-18.5	-18.5	0.16 (4)	10.00			
P-O	-3 / 0	0.0	0.0	0.09 (1)	10.00			
O-D	-596 / 0	0.0	0.0	0.10 (1)	7.81			
O-W	0 / 4371	-18.5	-18.5	0.47 (1)	10.00			
W-N	0 / 4371	-18.5	-18.5	0.47 (1)	10.00			
N-X	0 / 3707	-18.5	-18.5	0.39 (1)	10.00			
X-M	0 / 3707	-18.5	-18.5	0.39 (1)	10.00			
M-Y	0 / 4579	-18.5	-18.5	0.48 (1)	10.00			
Y-L	0 / 4579	-18.5	-18.5	0.48 (1)	10.00			
K-L	0 / 17	0.0	0.0	0.24 (1)	10.00			
L-G	0 / 233	0.0	0.0	0.26 (1)	10.00			
K-J	0 / 322	-18.5	-18.5	0.03 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	5-10-8	-331	-331		BACK	VERT	TOTAL		C1
D	7-11-4	-113	-113		BACK	VERT	TOTAL		C1
E	11-10-12	-67	-67		BACK	VERT	TOTAL		C1
F	15-11-8	-225	-225		FRONT	VERT	TOTAL		C1
F	15-11-8	-73	-73		BACK	VERT	TOTAL		C1
L	20-11-12	-70	-70		BACK	VERT	TOTAL		C1
M	15-10-12	-65	-65		BACK	VERT	TOTAL		C1
N	11-10-12	-65	-65		BACK	VERT	TOTAL		C1
P	8-0-4	-35	-35		BACK	VERT	TOTAL		C1
Q	5-11-4	-29	-29		BACK	VERT	TOTAL		C1
S	9-11-4	-67	-67		BACK	VERT	TOTAL		C1

DESIGN CRITERIA

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

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN./C

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

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

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

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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/999 (0.19")

CSI: TC=0.37/1.00 (B-C:1), BC=0.48/1.00 (L-M:1),
WB=0.51/1.00 (H-L:1), SSI=0.19/1.00 (G-L: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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

CONTINUED ON PAGE 2



Structural component only
DWG# T-2406393

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T1S	2	2	TRUSS DESC.		
Tamarack Roof Truss, Burlington				Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Wed Feb 28 15:02:35 2024 Page 2 ID:sd0FDfbi38oVqvTaiRkhtSzPAoD-nXkeudwtJPfYvcAOWi81FP Pz PU?FC QJ5LdzzgawY		

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	6.0	2.00	3.00
C	TTWW+m	MT20	6.0	7.0	2.50	2.25
D	TMVW-t	MT20	4.0	6.0		
E	TMVW-w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	6.0	2.50	2.00
G	TMVW-p	MT20	5.0	6.0	2.25	3.00
H	TMVW-t	MT20	5.0	6.0	2.50	2.75
J	BMVW1-t	MT20	4.0	6.0		
K	BMV+p	MT20	3.0	4.0		
L	BVMWW-l	MT20	6.0	10.0	3.25	6.50
M	BMWW-t	MT20	4.0	6.0		
N	BMWWW-t	MT20	4.0	6.0		
O	BVMWW-l	MT20	6.0	10.0	3.00	6.50
P	BMV+p	MT20	3.0	4.0		
Q	BMWWW-t	MT20	6.0	10.0		
R	BMV1+p	MT20	3.0	4.0		

NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
T	13-10-12	-67	-67	---	BACK	VERT	TOTAL	---	C1
U	1-11-4	-29	-29	---	BACK	VERT	TOTAL	---	C1
V	3-11-4	-29	-29	---	BACK	VERT	TOTAL	---	C1
W	9-11-4	-65	-65	---	BACK	VERT	TOTAL	---	C1
X	13-10-12	-65	-65	---	BACK	VERT	TOTAL	---	C1
Y	17-10-12	-65	-65	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

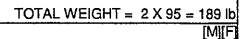
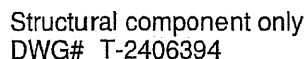
1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

JSI GRIP= 0.77 (C) (INPUT = 0.90)
JSI METAL= 0.54 (H) (INPUT = 0.95)

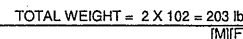


Structural component only
DWG# T-2406393

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Wed Feb 28 15:02:36 2024 Page 1
ID:VI DQv1e49Qy7axT?i10OzOYuG-FjH05zxW4jnPWm1a4QfGodXZbOm?kig8dzru9QzgawX

JSI METAL= 0.52 (R) (INPUT = 0.95)

Tamarack Roof Truss, Burlington



A circular professional engineer seal for the Province of Ontario. The outer ring contains the text "LICENSED PROFESSIONAL ENGINEER" at the top and "PROVINCE OF ONTARIO" at the bottom. In the center, the license number "100099024" is printed below the name "H. J. G. ALVES". Above the name, the date "02-28-24" is displayed within a semi-circular frame. A handwritten signature is scrawled across the bottom half of the seal, overlapping the license number and the province name.

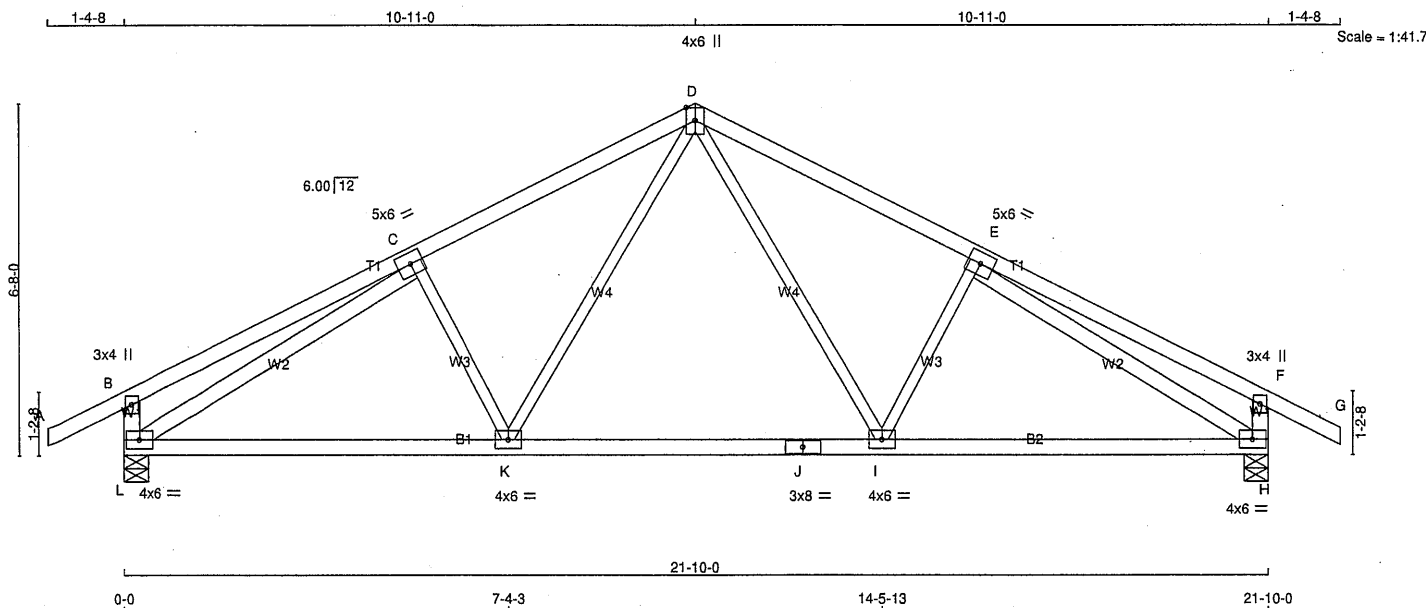
C H O R D S				W E B S				
MAX. FACTORED		FACTORED		MAX. FACTORED				
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		LENGTH	FR-TO			
A-B	0 / 27	-84.9	-84.9	0.12 (1)	10.00	R-C	-536 / 0	0.10 (1)
B-C	-1466 / 0	-84.9	-84.9	0.19 (1)	5.23	O-C	0 / 410	0.09 (1)
C-D	-1644 / 0	-84.9	-84.9	0.18 (1)	5.00	O-G	-612 / 0	0.25 (1)
D-E	-1651 / 0	-84.9	-84.9	0.07 (1)	5.11	N-G	0 / 156	0.04 (4)
E-F	-1257 / 0	-84.9	-84.9	0.06 (1)	5.69	N-H	-488 / 0	0.15 (1)
F-G	-1415 / 0	-84.9	-84.9	0.20 (1)	5.28	B-R	0 / 1355	0.30 (1)
G-H	-9939 / 0	-84.9	-84.9	0.23 (1)	4.64	M-K	-182 / 0	0.02 (1)
H-I	-2276 / 0	-84.9	-84.9	0.14 (4)	4.43	M-I	0 / 2011	0.45 (1)
I-J	0 / 27	-84.9	-84.9	0.12 (1)	10.00	R-P	0 / 1333	0.21 (1)
S-B	-1213 / 0	0.0	0.0	0.12 (1)	7.27	C-P	0 / 153	0.03 (1)
K-I	-1146 / 0	0.0	0.0	0.12 (1)	7.43	E-O	0 / 30	0.01 (4)
						P-E	0 / 609	0.14 (1)
S-R	0 / 0	-18.5	-18.5	0.07 (4)	10.00			
R-Q	0 / 35	-18.5	-18.5	0.08 (4)	10.00			
Q-P	0 / 30	0.0	0.0	0.05 (1)	10.00			
P-D	-245 / 0	0.0	0.0	0.05 (1)	7.81			
P-O	0 / 1247	-18.5	-18.5	0.24 (1)	10.00			
O-N	0 / 1753	-18.5	-18.5	0.33 (1)	10.00			
N-M	0 / 2234	-18.5	-18.5	0.40 (1)	10.00			
L-M	0 / 17	0.0	0.0	0.22 (1)	10.00			
M-H	0 / 98	0.0	0.0	0.23 (1)	10.00			
L-K	0 / 156	-18.5	-18.5	0.03 (1)	10.00			

JSI GRIP= 0.70 (I) (INPUT = 0.90)
JSI METAL= 0.54 (I) (INPUT = 0.95)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T4	16	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Wed Feb 28 15:02:39 2024 Page 1
ID:Vl_DQv1e49Qy7axT?i10OzOYuG-glz8k?zOMe9_NEU9lYDzPF94JbocxaaJx3YmlzgawL



TOTAL WEIGHT = 16 X 90 = 1439 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV-p	MT20	3.0	4.0		
C	TMWW-t	MT20	5.0	6.0		
D	TTWW+p	MT20	4.0	6.0	Edge	
E	TMWW-t	MT20	5.0	6.0		
F	TMV-p	MT20	3.0	4.0		
H	BMVW1-t	MT20	4.0	6.0		
I	BMWW-t	MT20	4.0	6.0		
J	BS-t	MT20	3.0	8.0		
K	BMWW-t	MT20	4.0	6.0		
L	BMVW1-t	MT20	4.0	6.0		

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

NOTES (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

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	IN-SX		IN-SX	
L	1251	0	0	1251	0	0	5-8	1-8	
H	1251	0	0	1251	0	0	5-8	1-8	

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	885	576 / 0	0 / 0	0 / 0	0 / 0	310 / 0	0 / 0
H	885	576 / 0	0 / 0	0 / 0	0 / 0	310 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.16 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (L)	MEMB.	FORCE (LBS)	MAX. UNBRACED LENGTH (L)	MAX. FACTORED (L)
FR-TO		FROM TO		FR-TO			
A-B	0 / 27	-84.9 -84.9	0.12 (1)	10.00	D-I	0 / 485	0.11 (1)
B-C	0 / 24	-84.9 -84.9	0.41 (1)	10.00	I-E	-313 / 0	0.09 (1)
C-D	-1369 / 0	-84.9 -84.9	0.35 (1)	5.16	K-D	0 / 485	0.11 (1)
D-E	-1369 / 0	-84.9 -84.9	0.35 (1)	5.16	C-K	-313 / 0	0.09 (1)
E-F	0 / 24	-84.9 -84.9	0.41 (1)	10.00	L-C	-1618 / 0	0.87 (1)
F-G	0 / 27	-84.9 -84.9	0.12 (1)	10.00	E-H	-1618 / 0	0.87 (1)
L-B	-299 / 0	0.0 0.0	0.03 (1)	7.81			
H-F	-299 / 0	0.0 0.0	0.03 (1)	7.81			
L-K	0 / 1347	-18.5 -18.5	0.34 (4)	10.00			
K-J	0 / 964	-18.5 -18.5	0.31 (4)	10.00			
J-I	0 / 964	-18.5 -18.5	0.31 (4)	10.00			
I-H	0 / 1347	-18.5 -18.5	0.34 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	23.3	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.4	PSF
TOTAL LOAD	=	36.7	PSF

SPACING = 24.0 IN. C/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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TC=0.41/1.00 (E-F:1), BC=0.34/1.00 (H-I:4), WB=0.87/1.00 (E-H:1), SSI=0.20/1.00 (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	650 371	1747 788	1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

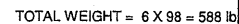
JSI GRIP= 0.77 (H) (INPUT = 0.90)

JSI METAL= 0.36 (E) (INPUT = 0.95)

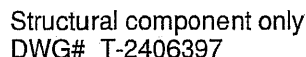


Structural component only
DWG# T-2406396

Tamarack Roof Truss, Burlington



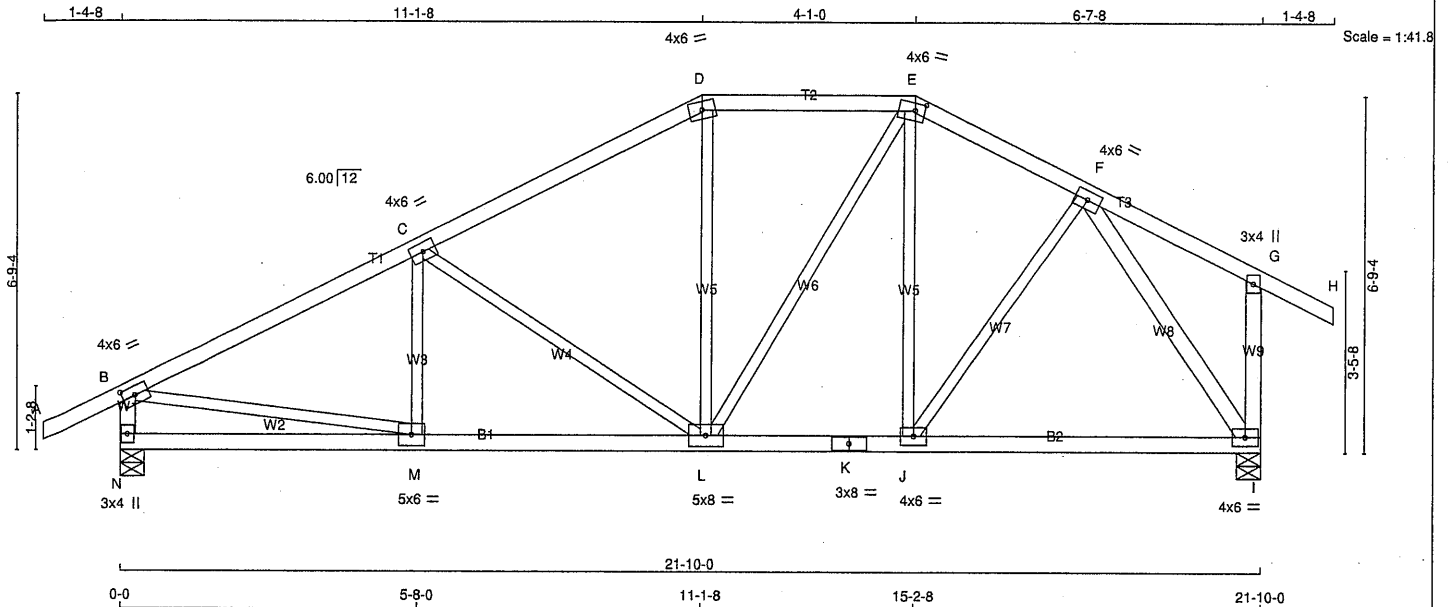
JSI GRIP= 0.75 (N) (INPUT = 0.90)
JSI METAL= 0.54 (H) (INPUT = 0.95)



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T5	6	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MITek Industries, Inc. Wed Feb 28 15:02:41 2024 Page 1
ID:V1_DQv1e49Qy7axT?i10OzOYuG-ch5v9g?euFPidXdSzFRVgERPPVtPzKtmFYrdzgawS



TOTAL WEIGHT = 6 X 99 = 596 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	
E - H	2x4	DRY	No.2	SPF	
N - B	2x4	DRY	No.2	SPF	
I - G	2x4	DRY	No.2	SPF	
N - K	2x4	DRY	No.2	SPF	
K - I	2x4	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
EXCEPT					
F - I	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	6.0	2.00	3.00
C	TMWW-t	MT20	4.0	6.0		
D	TTW-m	MT20	4.0	6.0		
E	TTWW-m	MT20	4.0	6.0	1.75	2.25
F	TMVW-t	MT20	4.0	6.0		
G	TMV-p	MT20	3.0	4.0		
I	BMVW1-t	MT20	4.0	6.0		
J	BMWW-t	MT20	4.0	6.0		
K	BS-t	MT20	3.0	8.0		
L	BMVWW-t	MT20	5.0	8.0		
M	BMWW-t	MT20	5.0	6.0		
N	BMV1-p	MT20	3.0	4.0		

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REORD	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
N	1251	0	1251	0	0	5-8	1-8		
I	1251	0	1251	0	0	5-8	1-8		

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
N	885	576 / 0	0 / 0	0 / 0	0 / 0	310 / 0	0 / 0
I	885	576 / 0	0 / 0	0 / 0	0 / 0	310 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.95 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. (PLF)	MAX. (LC)	MEMB.	FORCE (LBS)	MAX. (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 / 27	-84.9 -84.9	0.12 (1)	10.00	M-C	-99 / 58	0.02 (1)
B-C	-1502 / 0	-84.9 -84.9	0.37 (1)	4.95	C-L	-500 / 0	0.41 (1)
C-D	-1088 / 0	-84.9 -84.9	0.35 (1)	5.63	L-D	0 / 129	0.04 (4)
D-E	-952 / 0	-84.9 -84.9	0.19 (1)	6.14	L-E	0 / 258	0.06 (1)
E-F	-930 / 0	-84.9 -84.9	0.12 (1)	6.25	J-E	-89 / 28	0.07 (1)
F-G	0 / 15	-84.9 -84.9	0.15 (1)	10.00	J-F	0 / 257	0.06 (1)
G-H	0 / 27	-84.9 -84.9	0.12 (1)	10.00	B-M	0 / 1382	0.31 (1)
H-I	-1207 / 0	0.0 0.0	0.12 (1)	7.29	F-I	-1177 / 0	0.47 (1)
I-G	-231 / 0	0.0 0.0	0.05 (1)	7.81			
N-M	0 / 0	-18.5 -18.5	0.14 (4)	10.00			
M-L	0 / 1365	-18.5 -18.5	0.29 (1)	10.00			
L-K	0 / 817	-18.5 -18.5	0.25 (4)	10.00			
K-J	0 / 817	-18.5 -18.5	0.25 (4)	10.00			
J-I	0 / 670	-18.5 -18.5	0.23 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.37/1.00 (B-C:1), BC=0.29/1.00 (L-M:1), WB=0.47/1.00 (F-I:1), SSI=0.21/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE LEFT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.75 (E) (INPUT = 0.90)
JSI METAL = 0.38 (B) (INPUT = 0.95)

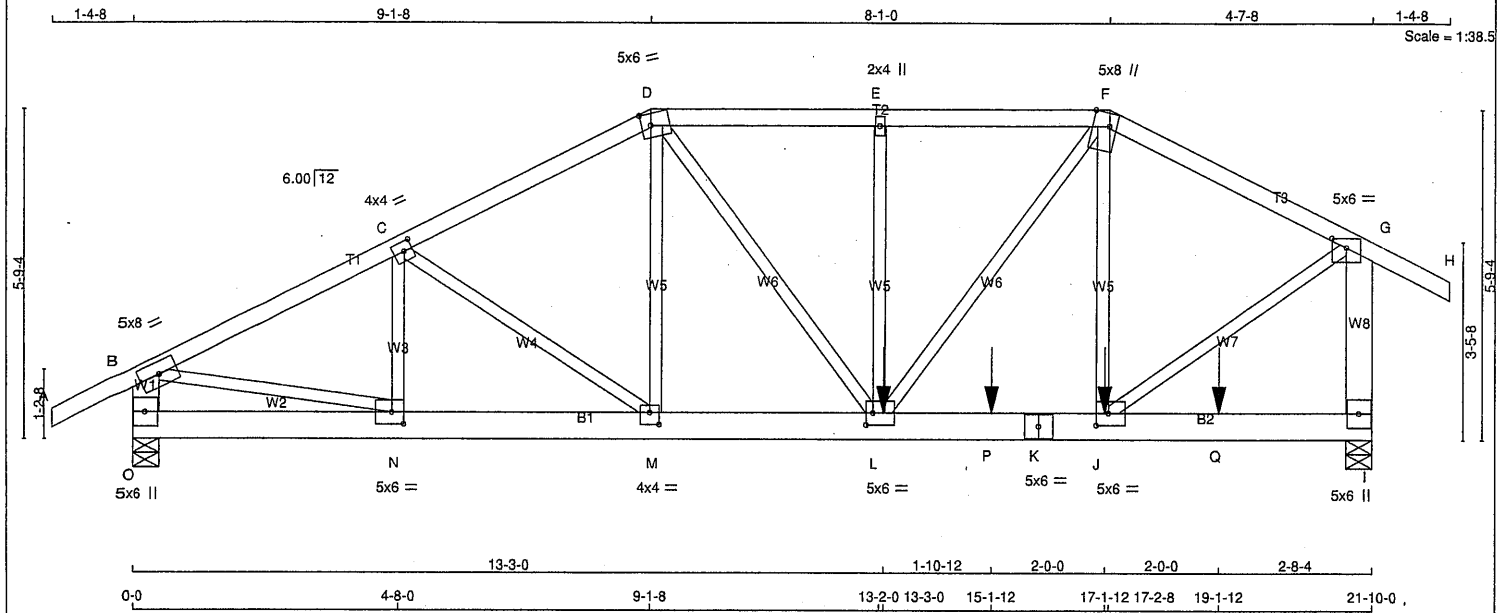


Structural component only
DWG# T-2406398

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T6	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Wed Feb 28 15:16:55 2024 Page 1
ID:sd0FDfbi38oVqvTaiRkhtSzPAoD-c_hlOhKkne?X4nwgUJai6mcM_fx4VC9a86Qrp7zgaJ6



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
O - B	2x6	DRY No.2	SPF
I - G	2x6	DRY No.2	SPF
O - K	2x6	DRY No.2	SPF
K - I	2x6	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-t	MT20	5.0	8.0	
C	TMVW-t	MT20	4.0	4.0	2.00 1.75
D	TTWW-m	MT20	5.0	6.0	2.50 2.00
E	TMVW-w	MT20	2.0	4.0	
F	TTWW-m	MT20	5.0	8.0	Edge 3.50
G	TMVW-p	MT20	5.0	6.0	2.00 3.00
I	BMV1-p	MT20	5.0	6.0	
J	BMVW-t	MT20	5.0	6.0	2.50 2.50
K	BS-t	MT20	5.0	6.0	
L	BMVW-t	MT20	5.0	6.0	2.50 1.50
M	BMVW-t	MT20	4.0	4.0	2.50 2.00
N	BMVW-t	MT20	5.0	6.0	2.50 2.50
O	BMV1-p	MT20	5.0	6.0	

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

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
O	1709	0	1709	0	0	5-8	1-14		
I	2296	0	2296	0	0	5-8	2-8		

UNFACTORED REACTIONS		1ST LCASE		MAX / MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERMLIVE	WIND	DEAD	SOIL		
O	1208	793 / 0	0 / 0	0 / 0	0 / 0	415 / 0	0 / 0		
I	1622	1076 / 0	0 / 0	0 / 0	0 / 0	546 / 0	0 / 0		

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.10 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO	LENGTH	FR-TO		
A-B	0 / 27	-84.9	-84.9	0.14 (1)	10.00	N-C	-307 / 0
B-C	-2259 / 0	-84.9	-84.9	0.42 (1)	4.10	C-M	-174 / 0
C-D	-2139 / 0	-84.9	-84.9	0.40 (1)	4.21	M-D	0 / 224
D-E	-2230 / 0	-84.9	-84.9	0.31 (1)	4.23	D-L	0 / 553
E-F	-2230 / 0	-84.9	-84.9	0.31 (1)	4.23	L-E	-407 / 0
F-G	-1810 / 0	-84.9	-84.9	0.43 (1)	4.46	L-F	0 / 1031
G-H	0 / 27	-84.9	-84.9	0.14 (1)	10.00	J-F	-349 / 0
O-B	-1653 / 0	0.0	0.0	0.12 (1)	7.64	B-N	0 / 2068
I-G	-2179 / 0	0.0	0.0	0.28 (1)	6.87	J-G	0 / 1928
O-N	0 / 0	-18.5	-18.5	0.06 (1)	10.00		
N-M	0 / 2037	-18.5	-18.5	0.31 (1)	10.00		
M-L	0 / 1898	-18.5	-18.5	0.28 (1)	10.00		
L-P	0 / 1611	-18.5	-18.5	0.39 (1)	10.00		
P-K	0 / 1611	-18.5	-18.5	0.39 (1)	10.00		
K-J	0 / 1611	-18.5	-18.5	0.39 (1)	10.00		
J-Q	0 / 0	-18.5	-18.5	0.18 (1)	10.00		
Q-I	0 / 0	-18.5	-18.5	0.18 (1)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)		MAX-		MAX+		FACE		DIR.		TYPE		HEEL		CONN.	
JT	LOC.	LC1	MAX-	MAX+		FRONT	VERT	TOTAL							
J	17-1-12	-155	-155			FRONT	VERT	TOTAL							C1
L	13-3-0	-546	-546			FRONT	VERT	TOTAL							C1
P	15-1-12	-155	-155			FRONT	VERT	TOTAL							C1
Q	19-1-12	-204	-204			FRONT	VERT	TOTAL							C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.43/1.00 (F-G:1), BC=0.39/1.00 (J-L:1), WB=0.51/1.00 (B-N:1), SSI=0.18/1.00 (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

AUTOSOLVE HEELS OFF

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

NAIL VALUES		PLATE GRIP(DRY) SHEAR SECTION	
(PSI)	(PLI)	(PSI)	(PLI)
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= 0.80 (D) (INPUT = 0.90)
JSI METAL= 0.46 (N) (INPUT = 0.95)

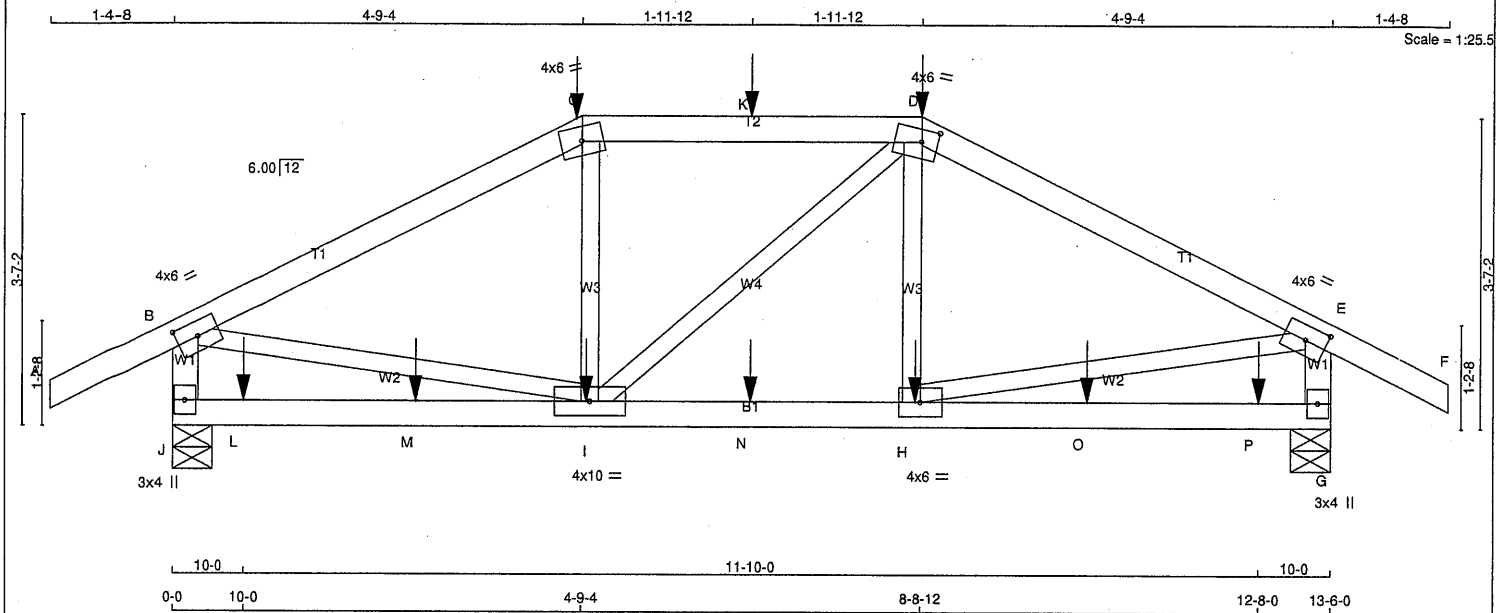


Structural component only
DWG# T-2406399

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T7	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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LUMBER				DESCR.	
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
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	X
B	TMVW-t	MT20	4.0	6.0	2.00 3.00
C	TTW-m	MT20	4.0	6.0	
D	TTWW-m	MT20	4.0	6.0	1.75 2.25
E	TMVW-t	MT20	4.0	6.0	2.00 3.00
G	BMV1+p	MT20	3.0	4.0	
H	BMVW-t	MT20	4.0	6.0	
I	BMVW-t	MT20	4.0	10.0	
J	BMV1+p	MT20	3.0	4.0	

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REORD	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX	BRG
J	1218	0	1218	0	0	5-8	1-8	1-8	1-8
G	1219	0	1219	0	0	5-8	1-8	1-8	1-8

UNFACTORED REACTIONS		1ST LOASE		MAX/MIN. COMPONENT REACTIONS		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	DEAD	SOIL
J	862	562 / 0	0 / 0	0 / 0	0 / 0	300 / 0	0 / 0	300 / 0	0 / 0
G	863	562 / 0	0 / 0	0 / 0	0 / 0	301 / 0	0 / 0	301 / 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 = 5.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING		TOTAL LOAD CASES: (4)	
CHORDS		WEBS	
MEMB.	MAX. FACTORED	MEMB.	MAX. FACTORED
FORCE (LBS)	VERT. LOAD LC1 MAX	FORCE (LBS)	MAX. FACTORED
	FROM TO		CSI (LC)
FR-TO		FR-TO	
A-B	0 / 27	-84.9 -84.9 0.14 (1)	10.00
B-C	-1364 / 0	-84.9 -84.9 0.42 (1)	5.00
C-K	-1214 / 0	-84.9 -84.9 0.40 (1)	5.23
K-D	-1214 / 0	-84.9 -84.9 0.40 (1)	5.23
D-E	-1359 / 0	-84.9 -84.9 0.42 (1)	5.00
E-F	0 / 27	-84.9 -84.9 0.14 (1)	10.00
J-B	-1158 / 0	0.0 0.0 0.13 (1)	7.37
G-E	-1159 / 0	0.0 0.0 0.13 (1)	7.37
J-L	0 / 0	-18.5 -18.5 0.15 (4)	10.00
L-M	0 / 0	-18.5 -18.5 0.15 (4)	10.00
M-I	0 / 0	-18.5 -18.5 0.15 (4)	10.00
I-N	0 / 1212	-18.5 -18.5 0.27 (1)	10.00
N-H	0 / 1212	-18.5 -18.5 0.27 (1)	10.00
H-O	0 / 0	-18.5 -18.5 0.15 (4)	10.00
O-P	0 / 0	-18.5 -18.5 0.15 (4)	10.00
P-G	0 / 0	-18.5 -18.5 0.15 (4)	10.00

SPECIFIED CONCENTRATED LOADS (LBS)		FACE		DIR.		TYPE		HEEL		CONN.	
JT	LOC.	LC1	MAX-	MAX+	FRONT	VERT	DEAD	SNOW	FRONT	VERT	DEAD
C	4-9-4	-30	-30	---	FRONT	VERT	DEAD	---	FRONT	VERT	DEAD
C	4-9-4	-61	-61	---	FRONT	VERT	TOTAL	---	FRONT	VERT	TOTAL
C	4-9-4	-115	-115	---	FRONT	VERT	SNOW	---	FRONT	VERT	SNOW
D	8-8-12	-30	-30	---	FRONT	VERT	DEAD	---	FRONT	VERT	DEAD
D	8-8-12	-61	-61	---	FRONT	VERT	TOTAL	---	FRONT	VERT	TOTAL
D	8-8-12	-115	-115	---	FRONT	VERT	SNOW	---	FRONT	VERT	SNOW
H	8-8-0	-14	-14	---	FRONT	VERT	TOTAL	---	FRONT	VERT	TOTAL
I	4-10-0	-14	-14	---	FRONT	VERT	TOTAL	---	FRONT	VERT	TOTAL
K	6-9-0	-55	-55	---	FRONT	VERT	TOTAL	---	FRONT	VERT	TOTAL
L	10-0	-15	-15	---	FRONT	VERT	TOTAL	---	FRONT	VERT	TOTAL
M	2-10-0	-14	-14	---	FRONT	VERT	TOTAL	---	FRONT	VERT	TOTAL
N	6-9-0	-14	-14	---	FRONT	VERT	TOTAL	---	FRONT	VERT	TOTAL
O	10-8-0	-14	-14	---	FRONT	VERT	TOTAL	---	FRONT	VERT	TOTAL
P	12-8-0	-15	-15	---	FRONT	VERT	TOTAL	---	FRONT	VERT	TOTAL

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 = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.45")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.45")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.42/1.00 (B-C:1), BC=0.27/1.00 (H-I:1), WB=0.31/1.00 (B-I:1), SS=0.18/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.75 (H) (INPUT = 0.90)
JSI METAL= 0.34 (B) (INPUT = 0.95)

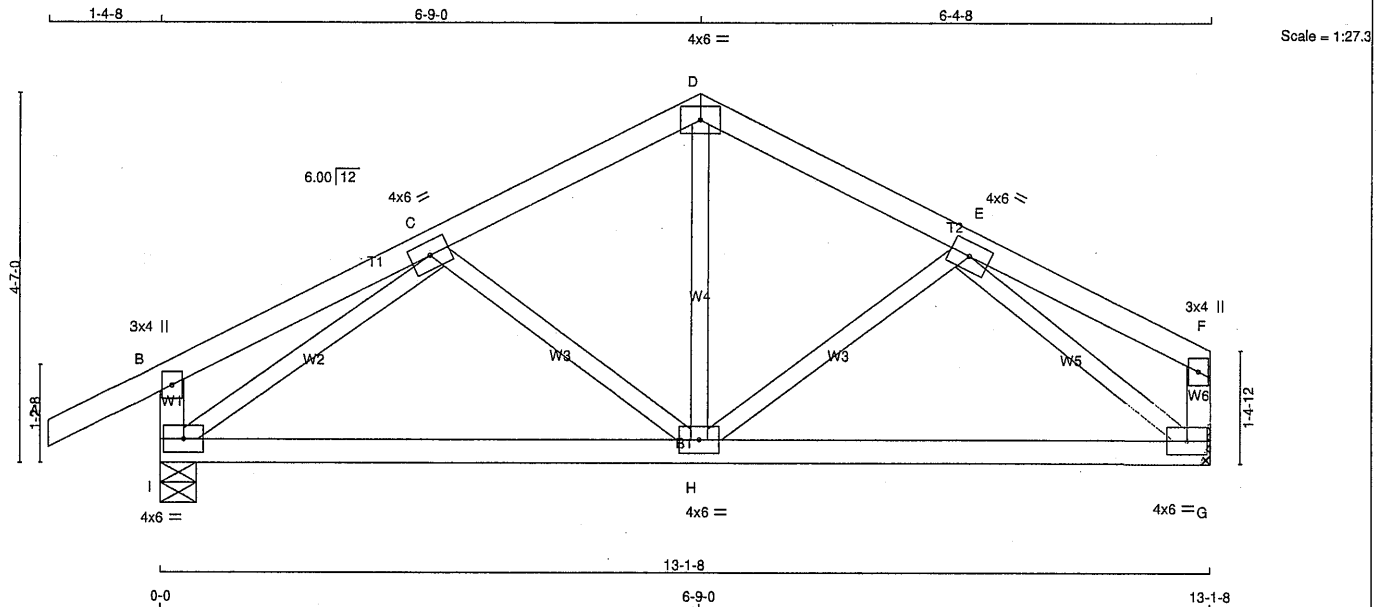


Structural component only
DWG# T-2406400

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T8	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MITek Industries, Inc. Wed Feb 28 15:02:45 2024 Page 1
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TOTAL WEIGHT = 2 X 52 = 103 lb [M/F]

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMV+p	MT20	3.0	4.0	
C	TMW+t	MT20	4.0	6.0	
D	TTW-p	MT20	4.0	6.0	
E	TMW+t	MT20	4.0	6.0	
F	TMV+p	MT20	3.0	4.0	
G	BMVW1-t	MT20	4.0	6.0	
H	BMVW1-t	MT20	4.0	6.0	
I	BMVW1-t	MT20	4.0	6.0	

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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		
I	801	0	801	0	5-8	1-8
G	678	0	678	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. SNOW		LIVE		PERM.LIVE	WIND	DEAD	SOIL
	VERT	HORZ	DOWN	HORZ	DOWN	HORZ				
I	566	373/0	0/0	0/0	0/0	0/0	0/0	193/0	0/0	0/0
G	482	306/0	0/0	0/0	0/0	0/0	0/0	176/0	0/0	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 = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0/27	-84.9 -84.9	0.12 (1)	10.00	C-H	-168/0	0.05 (1)
B-C	0/14	-84.9 -84.9	0.15 (1)	10.00	H-D	0/315	0.07 (1)
C-D	-619/0	-84.9 -84.9	0.11 (1)	6.25	H-E	-104/10	0.03 (1)
D-E	-618/0	-84.9 -84.9	0.10 (1)	6.25	I-C	-850/0	0.25 (1)
E-F	0/14	-84.9 -84.9	0.13 (1)	10.00	E-G	-823/0	0.22 (1)
I-B	-235/0	0.0 0.0	0.02 (1)	7.81			
G-F	-97/0	0.0 0.0	0.01 (1)	7.81			
I-H	0/675	-18.5 -18.5	0.28 (4)	10.00			
H-G	0/624	-18.5 -18.5	0.28 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 6.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 36.7	PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.44")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.01")
ALLOWABLE DEFL.(TL) = $L/360$ (0.44")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.06")

CSI: TC=0.15/1.00 (B-C:1), BC=0.28/1.00 (H-I:4), WB=0.25/1.00 (C-I: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 HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI)	SHEAR (PLI)	SECTION (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 (I) (INPUT = 0.90)
JSI METAL= 0.17 (C) (INPUT = 0.95)

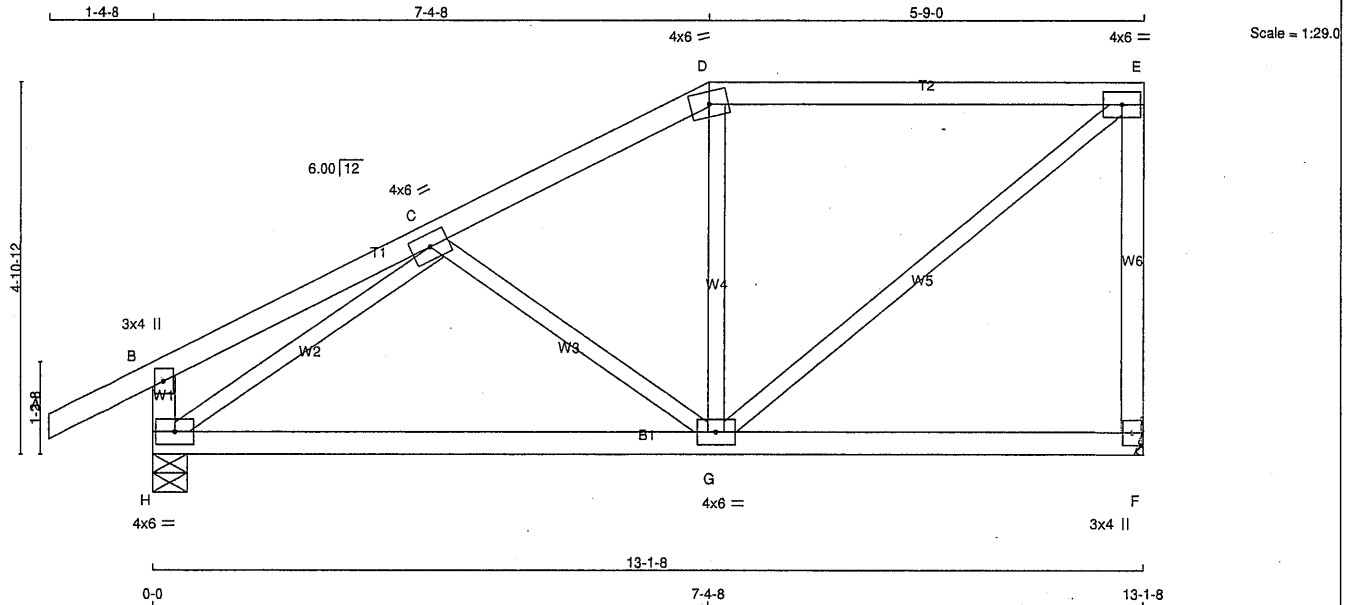


Structural component only
DWG# T-2406401

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T9	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Wed Feb 28 15:02:46 2024 Page 1
ID:sd0FDfbi38oVqvTaiRkhtSzPAoD-zfuoCO3njo2_jjWVfWrcCkxHlQCx4HTcwWGQWrzgawN



TOTAL WEIGHT = 2 X 55 = 109 lb

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

ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B TMV+p	MT20	3.0	4.0		
C TMWW-t	MT20	4.0	6.0		
D TTW-m	MT20	4.0	6.0		
E TMVW-t	MT20	4.0	6.0		
F BMV1+p	MT20	3.0	4.0		
G BMWW-t	MT20	4.0	6.0		
H BMVW1-t	MT20	4.0	6.0		

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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		
F	678	0	678	0	0	MECHANICAL
H	801	0	801	0	0	5-8 1-8

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		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
F	482	306 / 0	0 / 0	0 / 0	0 / 0	176 / 0	0 / 0
H	566	373 / 0	0 / 0	0 / 0	0 / 0	193 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. FACTORED LC1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH (LC)	MAX. FACTORED (LC)
FR-TO		FROM	TO	FR-TO			
A-B	0 / 27	-84.9	-84.9 0.12 (1)	C-G	-223 / 0	0.08 (1)	
B-C	0 / 16	-84.9	-84.9 0.18 (1)	G-D	-117 / 26	0.04 (1)	
C-D	-568 / 0	-84.9	-84.9 0.14 (1)	G-E	0 / 633	0.14 (1)	
D-E	-490 / 0	-84.9	-84.9 0.36 (1)	H-C	-839 / 0	0.29 (1)	
F-E	-643 / 0	0.0	0.0 0.25 (1)				
H-B	-244 / 0	0.0	0.0 0.02 (1)				
H-G	0 / 674	-18.5	-18.5 0.29 (4)				
G-F	0 / 0	-18.5	-18.5 0.24 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	23.3	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.4	PSF
TOTAL LOAD	=	36.7	PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.44")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.01")
ALLOWABLE DEFL.(TL) = $L/360$ (0.44")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.09")

CSI: TC=0.36/1.00 (D-E:1), BC=0.29/1.00 (G-H:4), WB=0.29/1.00 (C-H:1), SSI=0.19/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.75 (G) (INPUT = 0.90)
JSI METAL= 0.18 (G) (INPUT = 0.95)

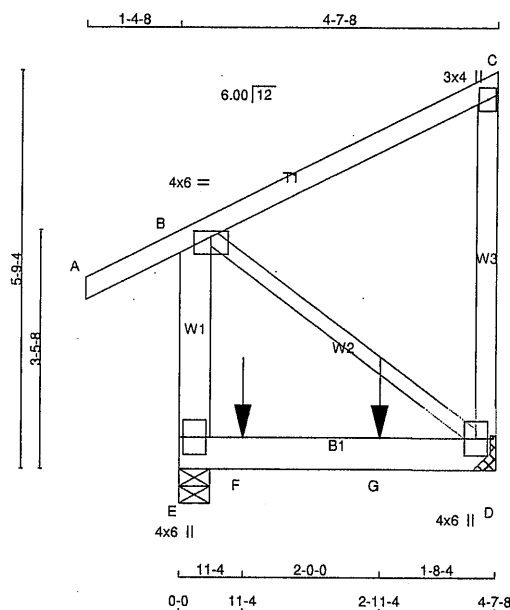


Structural component only
DWG# T-2406402

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T10	2	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Wed Feb 28 15:02:47 2024 Page 1
ID:sd0FDfb38oVqvTaiRkhtSzPAoD-RrSAPk4PU5ArLS5hDDMrkxUV1pX7poDi8A?z2HgzgawM



Scale: 3/8"=1'

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

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C 1	12	TOP
C - D 1	12	TOP
E - B 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
E - 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 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	6.0	1.00	3.00
C	TMV+p	MT20	3.0	4.0		
D	BMVW1+p	MT20	4.0	6.0		
E	BMV1+p	MT20	4.0	6.0		

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
D	792	0	792	0	0
E	1129	0	1129	0	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	MAX /MIN	LIVE	PERM. LIVE	WIND	DEAD	SOIL
D	561	364 / 0	0 / 0	0 / 0	0 / 0	0 / 0	197 / 0	0 / 0
E	797	530 / 0	0 / 0	0 / 0	0 / 0	0 / 0	267 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0 / 27	B-D	0 / 0
B-C	0 / 0		
D-C	-196 / 0		
E-B	-318 / 0		
E-F	0 / 0		
F-G	0 / 0		
G-D	0 / 0		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	11-4	-467	-467	---	BACK	VERT	TOTAL	---	C1
G	2-11-4	-467	-467	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD	=	36.7	PSF	

SPACING = 24.0 IN. C/C

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.17/1.00 (B-C:1), BC=0.36/1.00 (D-E:1),
WB=0.00/1.00 (B-D:1), SSI=0.27/1.00 (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 (PSI)	SECTION (PLI)
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.07 (B) (INPUT = 0.90)
JSI METAL= 0.03 (C) (INPUT = 0.95)



Structural component only
DWG# T-2406403

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T10	2	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:sd0FDfb38oVqvTaiRkhtSzPAoD-RrSAPk4PU5ArLSShDDMrxUV1pX7poDI8A?z2HzgawM

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

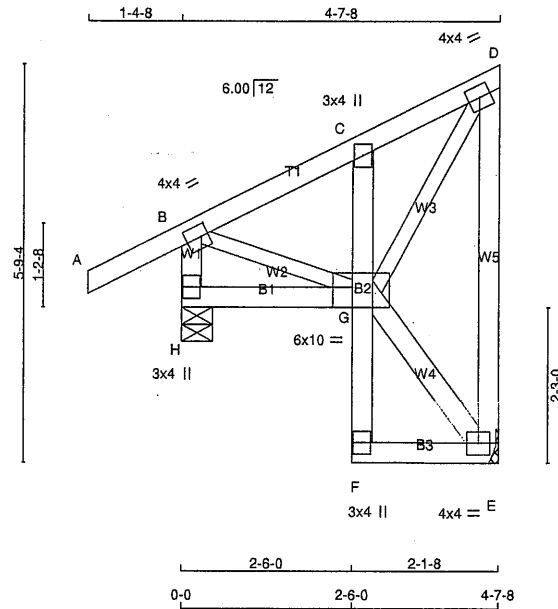


Structural component only
DWG# T-2406403

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T11	8	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MITek Industries, Inc. Wed Feb 28 15:02:48 2024 Page 1
ID:VI_DQvite49Qy7axT?i10OzOYUG-v10Yd441FPliczgtrxt4H91gODyPYFYvNqlXajzgawL



Scale: 3/8"=1'

TOTAL WEIGHT = 8 X 32 = 259 lb

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
A - D	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF
H - B	2x4	DRY	No.2	SPF
H - G	2x4	DRY	No.2	SPF
F - C	2x4	DRY	No.2	SPF
F - E	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
G - E	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	TMVW-t	MT20	4.0	4.0	
E	BMVW1-t	MT20	4.0	4.0	
F	BMV+p	MT20	3.0	4.0	
G	BVMVWV-t	MT20	6.0	10.0	Edge 3.50
H	BMV1+p	MT20	3.0	4.0	

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

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REORD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
E	239	0	239	0	MECHANICAL	
H	361	0	361	0	5-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED		MAX./MIN. LIVE		PERM.LIVE	WIND	DEAD	SOIL
	SNOW							
E	170	108 / 0	0 / 0	0 / 0	0 / 0	0 / 0	62 / 0	0 / 0
H	254	175 / 0	0 / 0	0 / 0	0 / 0	0 / 0	79 / 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 (PLF)	MAX. FACTORED LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 27	-84.9 -84.9	0.12 (1)	B-G	0 / 156	0.04 (1)	
B-C	-157 / 0	-84.9 -84.9	0.07 (1)	G-E	-7 / 0	0.00 (1)	
C-D	-163 / 0	-84.9 -84.9	0.07 (1)	G-D	0 / 260	0.06 (1)	
E-D	-216 / 0	0.0 0.0	0.13 (1)				
H-B	-337 / 0	0.0 0.0	0.03 (1)				
H-G	0 / 0	-18.5 -18.5	0.04 (4)				
F-G	0 / 21	0.0 0.0	0.02 (1)				
G-C	-234 / 0	0.0 0.0	0.01 (1)				
F-E	0 / 4	-18.5 -18.5	0.02 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 CBC 2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.13/1.00 (D-E:1) , BC=0.04/1.00 (G-H:4) ,
WB=0.06/1.00 (D-G: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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

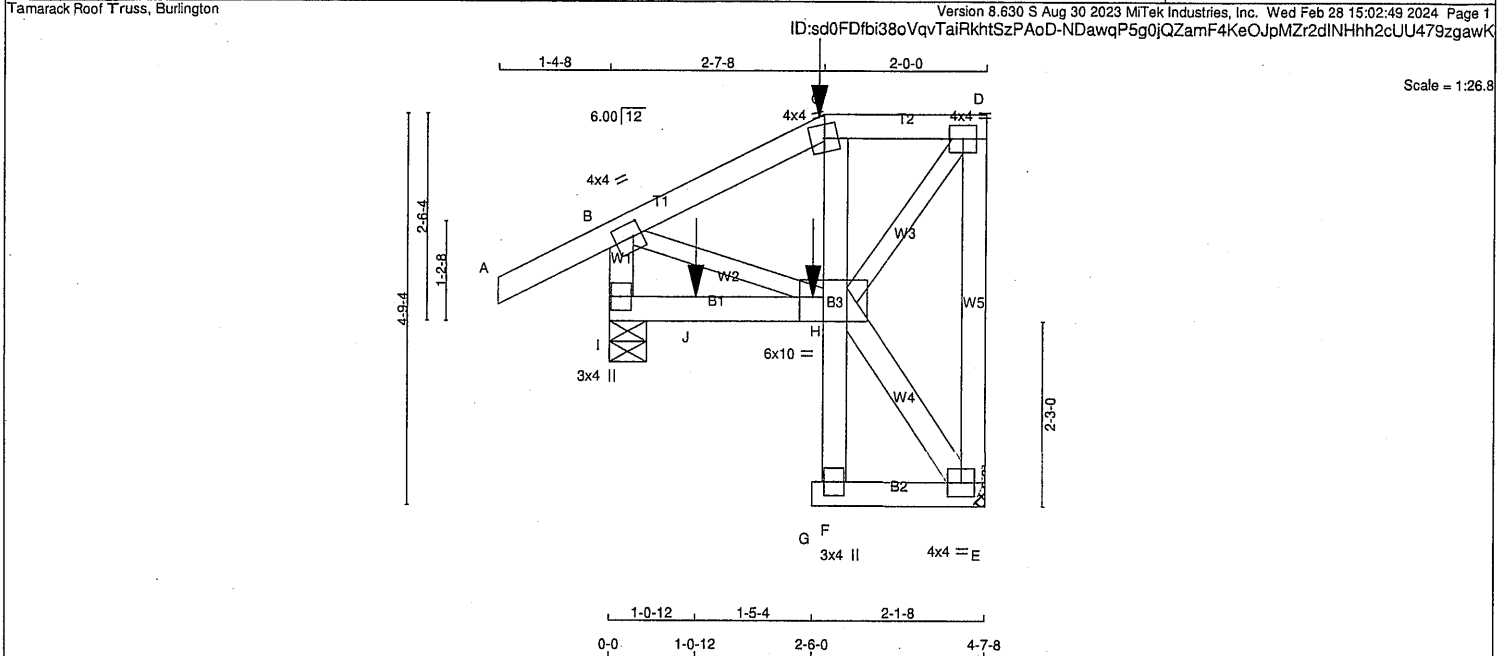
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.34 (D) (INPUT = 0.90)
JSI METAL= 0.09 (B) (INPUT = 0.95)



Structural component only
DWG# T-2406404

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T12	4	1	TRUSS DESC.		



LUMBER						
N. L. G. A. RULES						
CHORDS	SIZE					
A - C	2x4 DRY No.2					
C - D	2x4 DRY No.2					
E - D	2x4 DRY No.2					
I - B	2x4 DRY No.2					
I - H	2x4 DRY No.2					
F - C	2x4 DRY No.2					
G - E	2x4 DRY No.2					
ALL WEBS	2x3 DRY No.2					
EXCEPT						
H - 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	TTV-m	MT20	4.0	4.0		
D	TMVW-t	MT20	4.0	4.0		
E	BMVW-t	MT20	4.0	4.0		
F	BMV+p	MT20	3.0	4.0		
H	BVMWWV-I	MT20	6.0	10.0	Edge	3.50
I	BMV1+p	MT20	3.0	4.0		
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.						
NOTES- (1)						
1) Lateral braces to be a minimum of 2X4 SPF #2.						

Structural component only
DWG# T-2406405

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED	MAXIMUM FACTORED	INPUT	REQD				
		GROSS REACTION	GROSS REACTION	BRG	BRG				
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
E	308	0	308	0	0	MECHANICAL			
I	416	0	416	0	0	5-8	1-8		
A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT E. MINIMUM BEARING LENGTH AT JOINT E = 1-8.									
UNFACTORED REACTIONS									
	1ST LCASE	MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
E	218	139 / 0	0 / 0	0 / 0	0 / 0	80 / 0	0 / 0		
I	293	198 / 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.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	UNBRAC	MEMB.	MAX. FORCE (LBS)	MAX. CSI (LC)		
FR-TO		FROM	TO	LENGTH	FR-TO				
A-B	0 / 27	-84.9	-84.9	0.14 (1)	10.00	B-H	0 / 195	0.05 (1)	
B-C	-208 / 0	-84.9	-84.9	0.11 (1)	6.25	H-E	-5 / 0	0.00 (1)	
C-D	-168 / 0	-84.9	-84.9	0.06 (1)	6.25	H-D	0 / 263	0.07 (1)	
E-D	-287 / 0	0.0	0.0	0.11 (1)	7.81				
I-B	-387 / 0	0.0	0.0	0.04 (1)	7.81				
I-J	0 / 0	-18.5	-18.5	0.05 (4)	10.00				
J-H	0 / 0	-18.5	-18.5	0.05 (4)	10.00				
F-H	0 / 25	0.0	0.0	0.02 (1)	10.00				
H-C	-212 / 0	0.0	0.0	0.01 (1)	7.81				
G-F	0 / 0	-18.5	-18.5	0.00 (4)	10.00				
F-E	0 / 3	-18.5	-18.5	0.02 (4)	10.00				
SPECIFIED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	2-7-8	-11	-11	---	FRONT	VERT	DEAD	---	C1
C	2-7-8	-24	-24	---	BACK	VERT	TOTAL	---	C1
C	2-7-8	-40	-40	---	FRONT	VERT	SNOW	---	C1
H	2-6-0	-5	-5	---	BACK	VERT	TOTAL	---	C1
J	1-0-12	-5	-5	---	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	= 23.3 PSF
DL	= 6.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 36.7 PSF
SPACING = 24.0 IN. C/C	
LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12	
*** NON STANDARD GIRDER ***	
ADD'L 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, NBC-2019AE	
- PART 9 OF OBC 2012 (2019 AMENDMENT)	
- CSA 086-14	
- TPIC 2014	
(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD	
ALLOWABLE DEFL.(LL)= L/360 (0.19")	
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")	
ALLOWABLE DEFL.(TL)= L/360 (0.19")	
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")	
CSI: TC=0.14/1.00 (A-B:1) , BC=0.05/1.00 (H-I:4) , WB=0.07/1.00 (D-H:1) , SSI=0.09/1.00 (A-B:1)	
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00	
COMPANION LIVE LOAD FACTOR = 1.00	
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	650 371 1747 788 1987 1873
PLATE PLACEMENT TOL. = 0.250 inches	
PLATE ROTATION TOL. = 5.0 Deg.	
JSI GRIP= 0.30 (B) (INPUT = 0.90)	
JSI METAL= 0.11 (B) (INPUT = 0.95)	

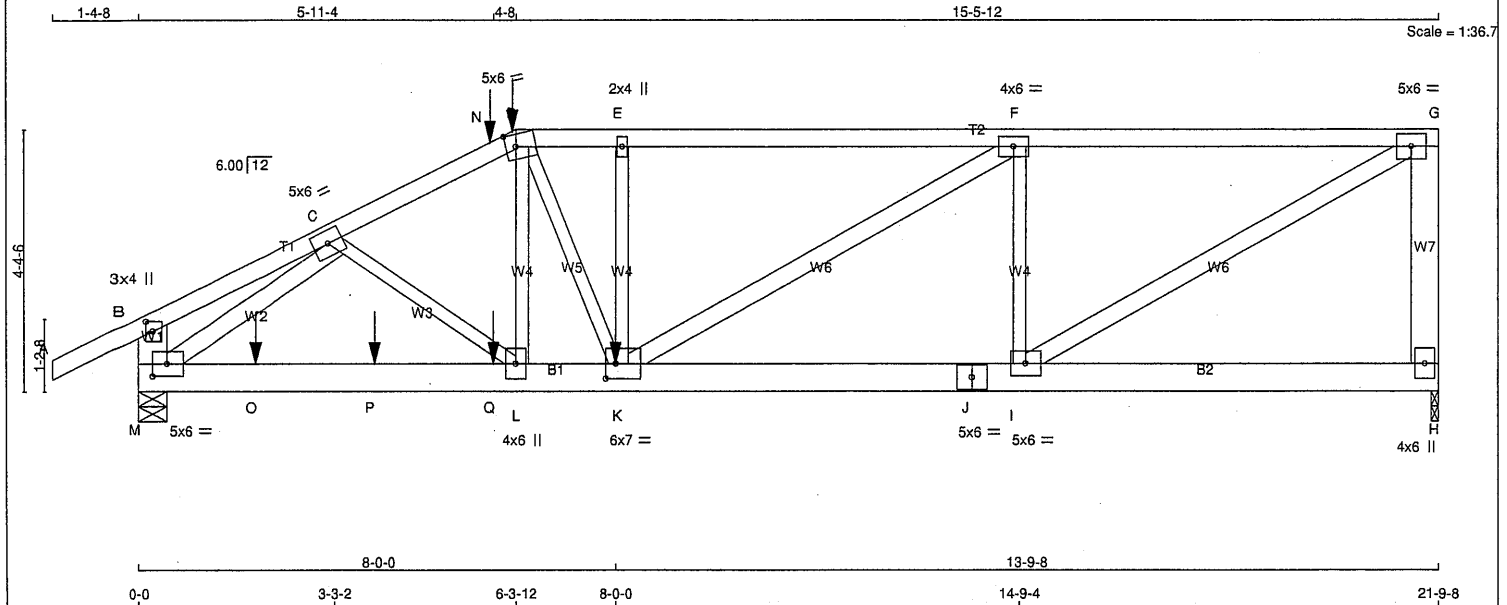


Structural component only
DWG# T-2406405

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T15	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:sd0FDfb38oVqvTaiRkhtSzPAoD-rQ8J16In0YQCwGuMvYMa6wK1XG02jBr8EdfczgawJ



TOTAL WEIGHT = 2 X 110 = 220 lb

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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-D	12	SIDE(61.0)
D-G	12	SIDE(61.0)
G-H	12	TOP
M-B	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
M-J	12	SIDE(183.1)
J-H	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
L-D	6	SIDE(43.5)
E-K	6	SIDE(275.7)
2x3	6	
2x4	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
H	2122	0	2122	0	1-8
M	3478	0	3478	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN	COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	1500	986 / 0	0 / 0	0 / 0	0 / 0	514 / 0	0 / 0
M	2454	1641 / 0	0 / 0	0 / 0	0 / 0	814 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.91 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED	MAX. FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1	MAX. UNBRACED LENGTH	MEMB.	FORCE (LBS)
FR-TO				FR-TO	
A-B	0 / 27	-84.9	-84.9 0.07 (1)	L-D	0 / 576
B-C	0 / 8	-84.9	-84.9 0.06 (1)	D-K	0 / 917
C-N	-4985 / 0	-84.9	-84.9 0.16 (1)	K-E	-382 / 0
N-D	-4985 / 0	-84.9	-84.9 0.16 (1)	C-L	0 / 680
D-E	-4849 / 0	-84.9	-84.9 0.19 (1)	M-C	-4907 / 0
E-F	-4850 / 0	-84.9	-84.9 0.55 (1)	I-G	0 / 3707
F-G	-3223 / 0	-84.9	-84.9 0.45 (1)	K-F	0 / 1895
H-G	-2067 / 0	0.0	0.0 0.19 (1)	I-F	-1659 / 0
M-B	-239 / 0	0.0	0.0 0.01 (1)		
M-O	0 / 3913	-18.5	-18.5 0.44 (1)		
O-P	0 / 3913	-18.5	-18.5 0.44 (1)		
P-Q	0 / 3913	-18.5	-18.5 0.44 (1)		
Q-L	0 / 3913	-18.5	-18.5 0.44 (1)		
L-K	0 / 4473	-18.5	-18.5 0.46 (1)		
K-J	0 / 3223	-18.5	-18.5 0.28 (1)		
J-I	0 / 3223	-18.5	-18.5 0.28 (1)		
I-H	0 / 0	-18.5	-18.5 0.06 (4)		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	6-3-12	-90	-90	---	FRONT	VERT	DEAD	---	C1
D	6-3-12	-348	-348	---	FRONT	VERT	SNOW	---	C1
K	8-0-0	-1242	-1242	---	FRONT	VERT	TOTAL	---	C1
N	5-11-4	-55	-55	---	FRONT	VERT	TOTAL	---	C1
O	1-11-4	-179	-179	---	FRONT	VERT	TOTAL	---	C1
P	3-11-4	-179	-179	---	FRONT	VERT	TOTAL	---	C1
Q	5-11-4	-179	-179	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

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

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 6.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 36.7	PSF

SPACING = 24.0 IN. C/C

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.55/1.00 (E-F:1), BC=0.46/1.00 (K-L:1),
WB=0.46/1.00 (C-M:1), SSI=0.20/1.00 (L-M:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE 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	1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.79 (M) (INPUT = 0.90)
JSI METAL= 0.58 (C) (INPUT = 0.95)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2406406

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T15	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0	2.00	1.25
C	TMWW-t	MT20	5.0	6.0		
D	TTWW-m	MT20	5.0	6.0	2.50	2.00
E	TMW+w	MT20	2.0	4.0		
F	TMWW-t	MT20	4.0	6.0		
G	TMVW-t	MT20	5.0	6.0		
H	BMV1+p	MT20	4.0	6.0		
I	BMWW-t	MT20	5.0	6.0		
J	BS-t	MT20	5.0	6.0		
K	BMWWW-t	MT20	6.0	7.0	3.00	2.00
L	BMWW+t	MT20	4.0	6.0		
M	BMVW1-t	MT20	5.0	6.0	2.50	2.75

NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

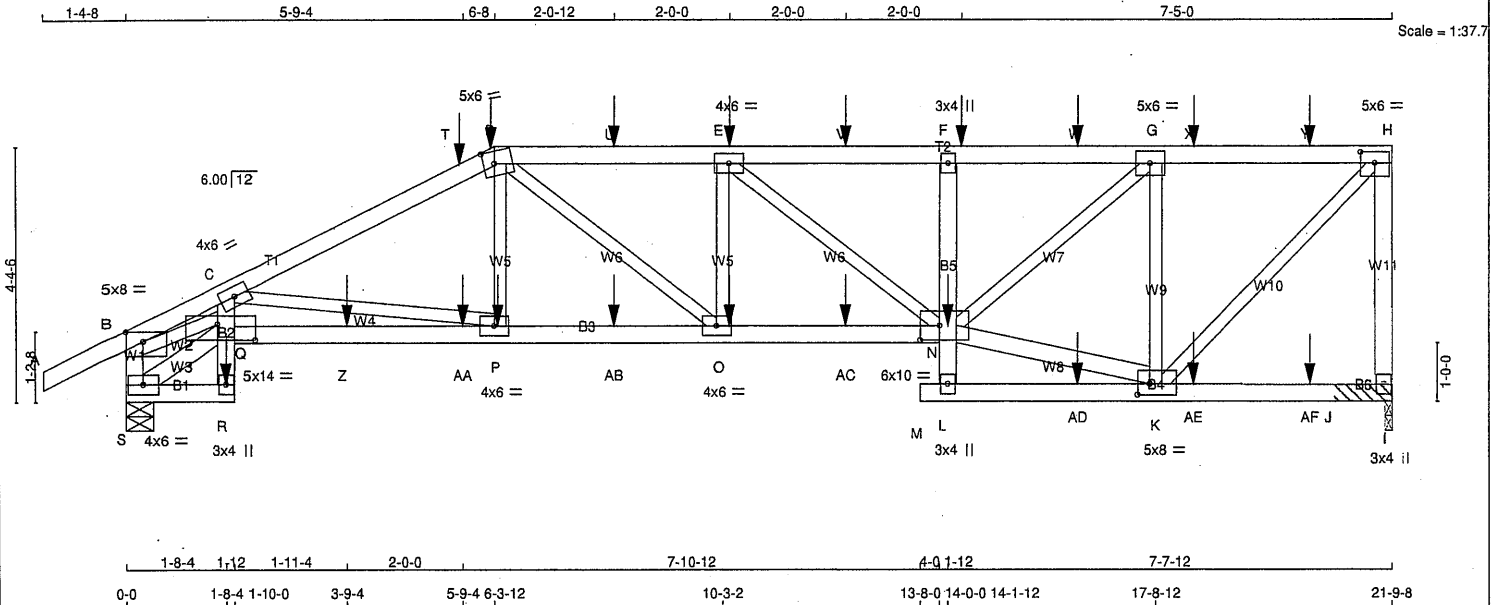


Structural component only
DWG# T-2406406

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T15S	2	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 4 X 99 = 395 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2 SPF
D - H	2x4	DRY	No.2 SPF
I - H	2x4	DRY	No.2 SPF
S - B	2x4	DRY	No.2 SPF
S - R	2x4	DRY	No.2 SPF
R - C	2x4	DRY	No.2 SPF
Q - N	2x4	DRY	2100F 1.8E SPF
L - F	2x4	DRY	No.2 SPF
M - I	2x4	DRY	No.2 SPF
ALL WEBS	2x3	DRY	No.2 SPF
EXCEPT			
S - Q	2x4	DRY	No.2 SPF
N - K	2x4	DRY	No.2 SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-D	12	SIDE(61.0)
D-H	12	SIDE(61.0)
H-I	12	TOP
S-B	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
S-R	12	SIDE(61.0)
R-C	12	SIDE(6.7)
Q-N	12	SIDE(65.9)
F-L	12	SIDE(0.3)
M-I	12	SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
P-D	6	SIDE(46.8)
E-O	6	SIDE(9.0)
2x3	6	
2x4	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
I	2941	0	2941	0	1-8	1-8 & BLOCK
S	3342	0	3342	0	5-8	1-13

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM.	LIVE			
I	2086	1333 / 0	0 / 0	0 / 0	0 / 0	753 / 0	0 / 0
S	2365	1543 / 0	0 / 0	0 / 0	0 / 0	822 / 0	0 / 0

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

2x4 DRY SPF NO.2 BEARING BLOCK 12" LONG AT JT. I ATTACHED TO FRONT SIDE WITH 2 ROWS OF (0.122"x3") SPIRAL NAILS SPACED 4" C.C. 4 NAILS TOTAL.

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.55 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)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD LC1 (PLF)		MAX. UNBRACED LENGTH FR-TO		WEBS MAX. FACTORED FORCE (LBS)	
	FR-TO	FROM	FR-TO	FROM	FR-TO	FROM	FR-TO	FROM
A-B	0 / 27	-84.9	-84.9	0.07 (1)	10.00	C-P	-1567 / 0	0.31 (1)
B-C	-6998 / 0	-84.9	-84.9	0.22 (1)	3.55	P-D	0 / 1231	0.15 (1)
C-T	-5934 / 0	-84.9	-84.9	0.40 (1)	3.69	D-O	0 / 642	0.08 (1)
T-D	-5934 / 0	-84.9	-84.9	0.40 (1)	3.69	O-E	0 / 224	0.03 (1)
D-U	-5865 / 0	-84.9	-84.9	0.22 (1)	3.87	E-N	-980 / 0	0.20 (1)
U-E	-5865 / 0	-84.9	-84.9	0.22 (1)	3.87	K-G	-2605 / 0	0.39 (1)
E-V	-5096 / 0	-84.9	-84.9	0.18 (1)	4.15	K-H	0 / 3626	0.45 (1)
V-F	-5096 / 0	-84.9	-84.9	0.18 (1)	4.15	S-Q	-560 / 0	0.03 (1)
F-W	-5048 / 0	-84.9	-84.9	0.22 (1)	4.13	B-Q	0 / 6226	0.77 (1)
W-G	-5048 / 0	-84.9	-84.9	0.22 (1)	4.13	N-K	0 / 2525	0.22 (1)
G-X	-2537 / 0	-84.9	-84.9	0.15 (1)	5.53	N-G	0 / 3246	0.40 (1)
X-Y	-2537 / 0	-84.9	-84.9	0.15 (1)	5.53			
Y-H	-2537 / 0	-84.9	-84.9	0.15 (1)	5.53			
I-H	-2766 / 0	0.0	0.0	0.43 (1)	6.88			
S-B	-3041 / 0	0.0	0.0	0.17 (1)	6.62			

S-R	0 / 482	-18.5	-18.5	0.05 (1)	10.00
R-Q	0 / 275	0.0	0.0	0.39 (1)	10.00
Q-C	0 / 543	0.0	0.0	0.41 (1)	10.00
Q-Z	0 / 6864	-18.5	-18.5	0.45 (1)	10.00
Z-AA	0 / 6864	-18.5	-18.5	0.45 (1)	10.00
AA-P	0 / 6864	-18.5	-18.5	0.45 (1)	10.00
P-AB	0 / 5358	-18.5	-18.5	0.36 (1)	10.00
AB-O	0 / 5358	-18.5	-18.5	0.36 (1)	10.00
O-AC	0 / 5865	-18.5	-18.5	0.37 (1)	10.00
AC-N	0 / 5865	-18.5	-18.5	0.37 (1)	10.00
L-N	0 / 76	0.0	0.0	0.12 (1)	10.00
N-F	-345 / 0	0.0	0.0	0.11 (1)	7.81
M-L	0 / 0	-18.5	-18.5	0.00 (4)	10.00
L-AD	0 / 149	-18.5	-18.5	0.19 (1)	10.00
AD-K	0 / 149	-18.5	-18.5	0.19 (1)	10.00
K-AE	0 / 0	-18.5	-18.5	0.18 (1)	10.00
AE-AF	0 / 0	-18.5	-18.5	0.18 (1)	10.00
AF-J	0 / 0	-18.5	-18.5	0.18 (1)	10.00
J-I	0 / 0	-18.5	-18.5	0.18 (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 = 23.3	PSF
	DL = 6.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 36.7	PSF

SPACING = 24.0 IN/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 CBC 2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL)= L/999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL)= L/999 (0.23")

CSI: TC=0.43/1.00 (H-I), BC=0.45/1.00 (P-Q), WB=0.77/1.00 (B-C), SS=0.28/1.00 (C-Q)

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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.



Structural component only
DWG# T-2406407

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T15S	2	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MITek Industries, Inc. Wed Feb 28 15:02:52 2024 Page 2

ID:sd0FDfbi38oVavTaiRkhtSzPAoD-noF3SR8Yleo8REzf0ny0R?BlkqCtUtQUISikiUzgawH

PLATES (table is in inches)							SPECIFIED CONCENTRATED LOADS (LBS)										JSI GRIP= 0.79 (K) (INPUT = 0.90) JSI METAL= 0.58 (Q) (INPUT = 0.95)	
JT	TYPE	PLATES	W	LEN	Y	X	JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.		
B	TMVW-p	MT20	5.0	8.0	2.00	3.50	D	6-3-12	-90	-90	---	FRONT	VERT	DEAD	---	C1		
C	TMVW-t	MT20	4.0	6.0			D	6-3-12	-9	-9	---	FRONT	VERT	TOTAL	---	C1		
D	TTWW-m	MT20	5.0	6.0	2.50	2.25	D	6-3-12	-348	-348	---	FRONT	VERT	SNOW	---	C1		
E	TMVW-t	MT20	4.0	6.0			E	10-4-8	-6	-6	---	FRONT	VERT	TOTAL	---	C1		
F	TMV+p	MT20	3.0	4.0			F	14-4-8	-37	-37	---	FRONT	VERT	TOTAL	---	C1		
G	TMVW-t	MT20	5.0	6.0			N	14-1-12	-181	-181	---	FRONT	VERT	TOTAL	---	C1		
H	TMVW-t	MT20	5.0	6.0	2.25	3.00	O	10-4-8	-205	-205	---	FRONT	VERT	TOTAL	---	C1		
I	BMV1+p	MT20	3.0	4.0			P	6-4-8	-205	-205	---	FRONT	VERT	TOTAL	---	C1		
K	BMVWW-t	MT20	5.0	8.0	2.25	2.50	R	1-8-4	-185	-185	---	FRONT	VERT	TOTAL	---	C1		
L	BMV+p	MT20	3.0	4.0			T	5-9-4	-17	-17	---	FRONT	VERT	TOTAL	---	C1		
N	BVMVWW-l	MT20	6.0	10.0	3.00	4.00	U	8-4-8	-6	-6	---	FRONT	VERT	TOTAL	---	C1		
O	BMVW-t	MT20	4.0	6.0			V	12-4-8	-6	-6	---	FRONT	VERT	TOTAL	---	C1		
P	BMVW-t	MT20	4.0	6.0			W	16-4-8	-37	-37	---	FRONT	VERT	TOTAL	---	C1		
Q	BVMVWW-l	MT20	5.0	14.0	3.25	7.50	X	18-4-8	-37	-37	---	FRONT	VERT	TOTAL	---	C1		
R	BMV+p	MT20	3.0	4.0			Y	20-4-8	-37	-37	---	FRONT	VERT	TOTAL	---	C1		
S	BMVW1-t	MT20	4.0	6.0			Z	3-9-4	-205	-205	---	FRONT	VERT	TOTAL	---	C1		
							AA	5-9-4	-205	-205	---	FRONT	VERT	TOTAL	---	C1		
							AB	8-4-8	-205	-205	---	FRONT	VERT	TOTAL	---	C1		
							AC	12-4-8	-205	-205	---	FRONT	VERT	TOTAL	---	C1		
							AD	16-4-8	-179	-179	---	FRONT	VERT	TOTAL	---	C1		
							AE	18-4-8	-179	-179	---	FRONT	VERT	TOTAL	---	C1		
							AF	20-4-8	-179	-179	---	FRONT	VERT	TOTAL	---	C1		
CONNECTION REQUIREMENTS																		
1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.																		

LICENSED PROFESSIONAL ENGINEER

02-28-24

H. J. G. ALVES

100009024

PROVINCE OF ONTARIO

Structural component only
DWG# T-2406407



Structural component only

DWG# T-2406407

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T15Z	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Wed Feb 28 16:19:20 2024 Page 2
ID:sd0FDfbi38oVqvTaiRkhtSzPAoD-SSUWNEfRqlr9tIjQnLGwOWDIKH4xTYYoJF6WIZzqZob

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0	2.00	1.25
C	TMWW-t	MT20	5.0	6.0	2.50	2.75
D	TTWW-m	MT20	6.0	7.0	Edge	
E	TMW+w	MT20	2.0	4.0		
F	TMWW-t	MT20	4.0	6.0		
G	TMVW-t	MT20	5.0	6.0	2.50	2.75
H	BMV1+p	MT20	4.0	6.0		
I	BMWW-t	MT20	5.0	6.0	2.50	2.75
J	BS-t	MT20	5.0	6.0		
K	BMWWW-t	MT20	5.0	6.0	2.50	1.50
L	BMWW+t	MT20	4.0	6.0		
M	BMVW1-t	MT20	5.0	8.0		

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

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

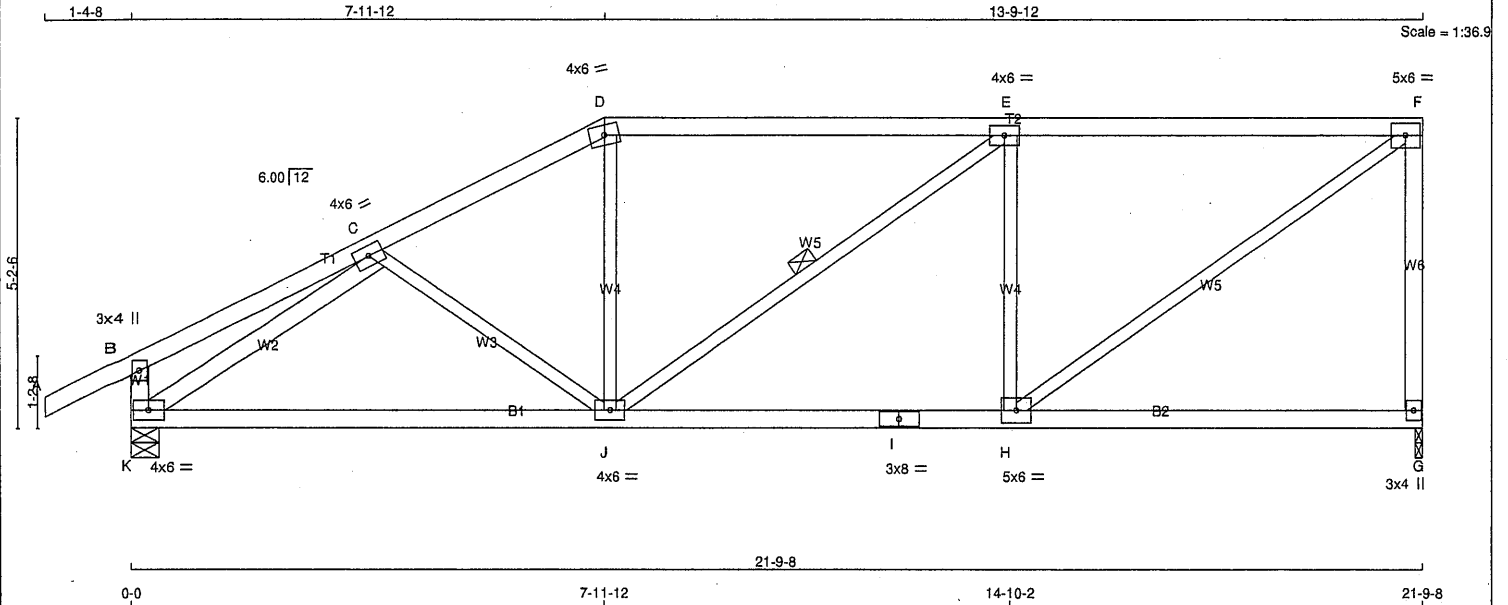


Structural component only
DWG# T-2406458

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T16	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Wed Feb 28 15:02:53 2024 Page 1
ID:VI_DQvi1e49Qy7axT?i10OzOYUG-F?pRgn8A3xw?3NYrZUTF_CkNyEaUDPaeX6SHGxgzawG



TOTAL WEIGHT = 89 lb

LUMBER				DESCR.	
N. L. G. A. RULES					
CHORDS	SIZE	LUMBER			
A - D	2x4	DRY	No.2	SPF	
D - F	2x4	DRY	No.2	SPF	
G - F	2x4	DRY	No.2	SPF	
K - B	2x4	DRY	No.2	SPF	
K - I	2x4	DRY	No.2	SPF	
I - G	2x4	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
EXCEPT					
K - C	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	4.0	6.0	
D	TTW-m	MT20	4.0	6.0	
E	TMWW-t	MT20	4.0	6.0	
F	TMVV-t	MT20	5.0	6.0	
G	BMV1+p	MT20	3.0	4.0	
H	BMWW-t	MT20	5.0	6.0	
I	BS-t	MT20	3.0	8.0	
J	BMWW-t	MT20	4.0	6.0	
K	BMV1-t	MT20	4.0	6.0	

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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	
G		1126	0	1126	0	1-8	1-8		
K		1248	0	1248	0	5-8	1-8		

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
G	799	507 / 0	0 / 0	0 / 0	0 / 0	292 / 0	0 / 0
K	884	575 / 0	0 / 0	0 / 0	0 / 0	309 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.54 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 27	-84.9 -84.9	0.12 (1)	10.00	C-J	-129 / 16	0.05 (1)
B-C	0 / 17	-84.9 -84.9	0.21 (1)	10.00	J-D	0 / 241	0.05 (1)
C-D	-1338 / 0	-84.9 -84.9	0.24 (1)	5.33	J-E	-18 / 21	0.01 (1)
D-E	-1186 / 0	-84.9 -84.9	0.78 (1)	4.57	H-E	-716 / 0	0.29 (1)
E-F	-1201 / 0	-84.9 -84.9	0.78 (1)	4.54	H-F	0 / 1471	0.33 (1)
G-F	-1072 / 0	0.0 0.0	0.50 (1)	7.61	K-C	-1588 / 0	0.46 (1)
K-B	-255 / 0	0.0 0.0	0.03 (1)	7.81			
K-J	0 / 1286	-18.5 -18.5	0.36 (4)	10.00			
J-I	0 / 1201	-18.5 -18.5	0.36 (4)	10.00			
I-H	0 / 1201	-18.5 -18.5	0.36 (4)	10.00			
H-G	0 / 0	-18.5 -18.5	0.18 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD	=	36.7	PSF	

SPACING = 24.0 IN./C

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

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CSI: TC=0.78/1.00 (E-F:1), BC=0.36/1.00 (J-K:4),
WB=0.46/1.00 (C-K:1), SSI=0.29/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE 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= 0.76 (K) (INPUT = 0.90)
JSI METAL= 0.35 (I) (INPUT = 0.95)



Structural component only
DWG# T-2406408

Tamarack Roof Truss, Burlington



DRY, SEASONED LUMBER.	BRACING	THIS PRODUCT IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015.
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PLATES (table is in inches)					LOADING	- CSA 086-14 - TPIG 2014
JT TYPE	PLATES	W	LEN Y	X		

Q-B	-1151/0	0.0	0.0	0.12 (1)	7.42	Q-O	-175/0	0.02 (1)
						B-O	0/1942	0.44 (1)

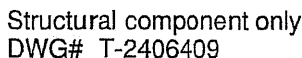
O-C	-119/0	0.0	0.0	0.21 (1)	7.81	COMPANION LIVE LOAD FACTOR = 1.00
O-N	0/1832	-18.5	-18.5	0.40 (1)	10.00	

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

02-28-24

100009024

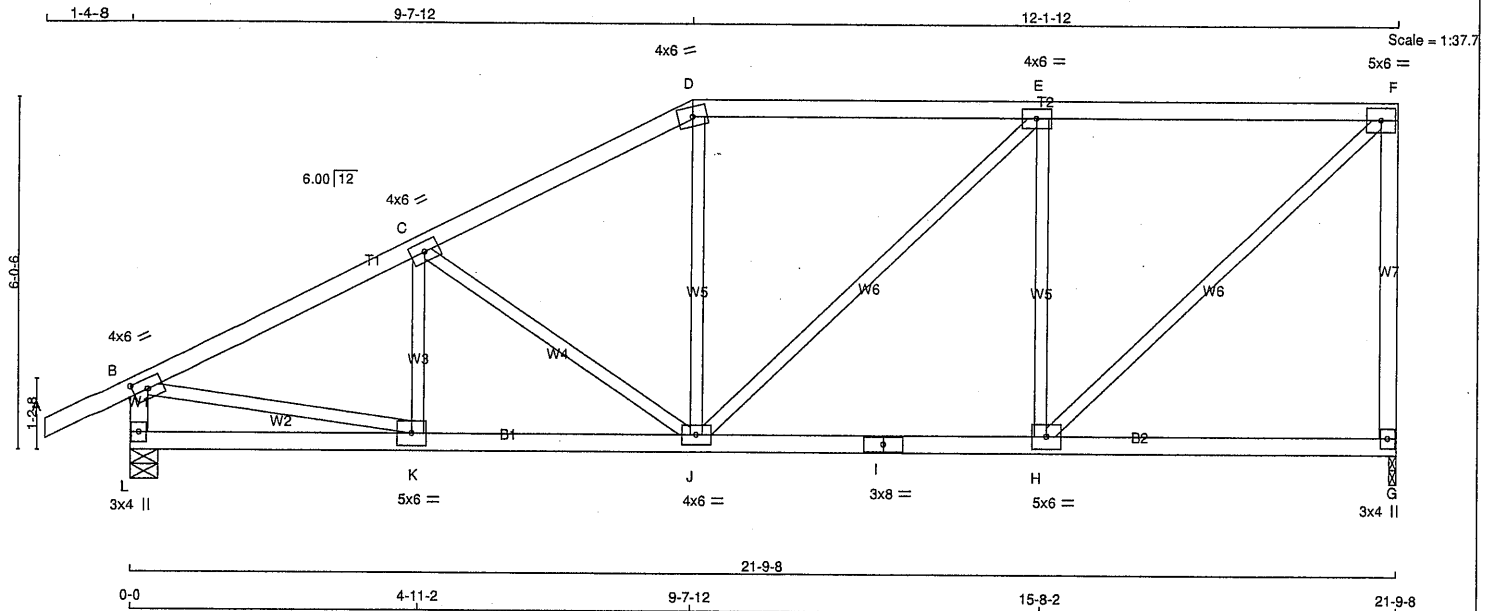


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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T17	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Wed Feb 28 15:02:55 2024 Page 1
ID:VI_DQv1e49Qy7axT?i10OzOYUG-CNxC5TAQbZAJhiEhvVj3dpku2HQhJUX_QxOKpzgawE



TOTAL WEIGHT = 93 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
G - F	2x4	DRY	No.2
L - B	2x4	DRY	No.2
L - I	2x4	DRY	No.2
I - G	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-t	MT20	4.0	6.0	2.00	3.00
C	TMVW-t	MT20	4.0	6.0		
D	TTW-m	MT20	4.0	6.0		
E	TMVW-t	MT20	4.0	6.0		
F	TMVW-t	MT20	5.0	6.0		
G	BMV1+p	MT20	3.0	4.0		
H	BMVW-t	MT20	5.0	6.0		
I	BS-t	MT20	3.0	8.0		
J	BMVW-t	MT20	4.0	6.0		
K	BMVW-t	MT20	5.0	6.0		
L	BMV1+p	MT20	3.0	4.0		

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX		RECORD BRG IN-SX	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG	IN-SX
G	1126	0	1126	0	0	1-8	1-8
L	1248	0	1248	0	0	5-8	1-8

UNFACTORED REACTIONS

1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
JT	799	507 / 0	0 / 0	0 / 0	0 / 0	292 / 0	0 / 0
L	884	575 / 0	0 / 0	0 / 0	0 / 0	309 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.93 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (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		FROM	TO
A-B	0 / 27	-84.9	-84.9 0.12 (1)	10.00	K-C	-154 / 21	0.03 (1)
B-C	-1492 / 0	-84.9	-84.9 0.38 (1)	4.93	C-J	-359 / 0	0.21 (1)
C-D	-1206 / 0	-84.9	-84.9 0.35 (1)	5.38	J-D	0 / 185	0.04 (4)
D-E	-1062 / 0	-84.9	-84.9 0.58 (1)	5.22	J-E	0 / 169	0.04 (1)
E-F	-941 / 0	-84.9	-84.9 0.57 (1)	5.48	H-E	-756 / 0	0.43 (1)
G-F	-1080 / 0	0.0	0.0 0.75 (1)	7.60	H-F	0 / 1290	0.29 (1)
L-B	-1208 / 0	0.0	0.0 0.12 (1)	7.28	B-K	0 / 1376	0.31 (1)
L-K	0 / 0	-18.5	-18.5 0.09 (4)	10.00			
K-J	0 / 1353	-18.5	-18.5 0.27 (1)	10.00			
J-I	0 / 941	-18.5	-18.5 0.25 (4)	10.00			
I-H	0 / 941	-18.5	-18.5 0.25 (4)	10.00			
H-G	0 / 0	-18.5	-18.5 0.17 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN./C

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09")

CSI: TC=0.75/1.00 (F-G:1) , BC=0.27/1.00 (J-K:1) ,
WB=0.43/1.00 (E-H:1) , SSI=0.25/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.70 (B) (INPUT = 0.90)
JSI METAL= 0.37 (B) (INPUT = 0.95)

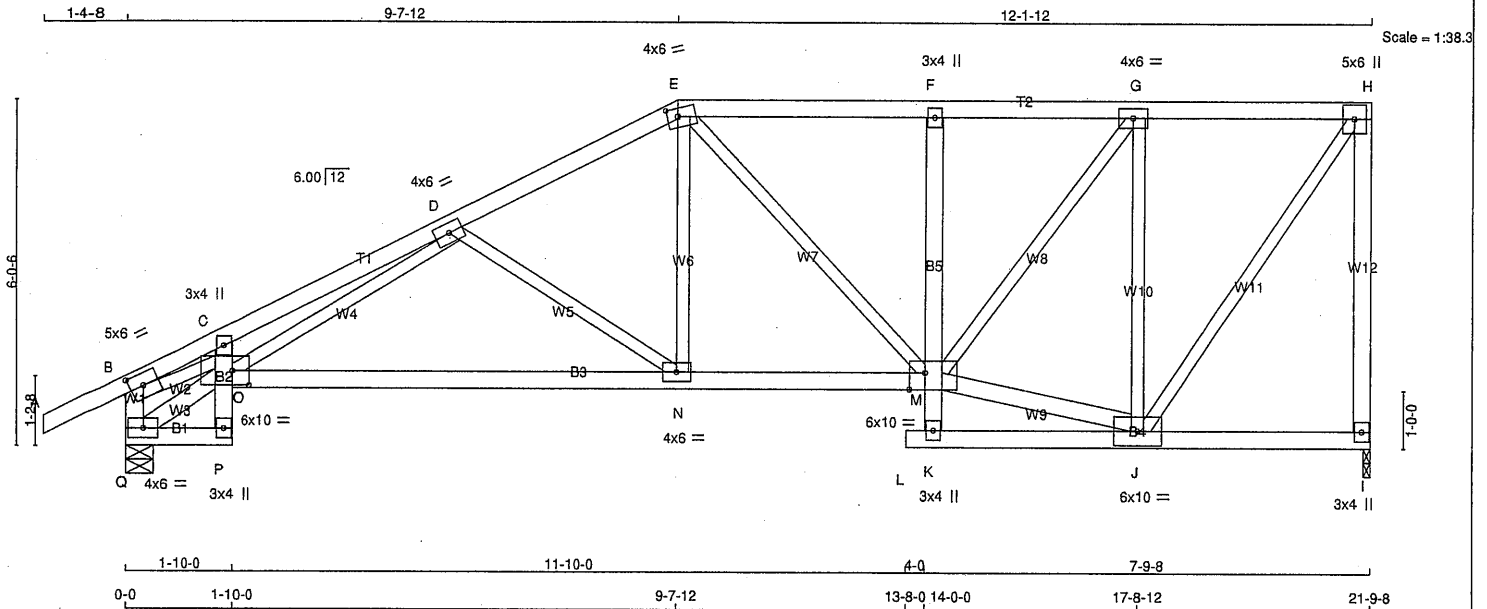


Structural component only
DWG# T-2406410

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T17S	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 Mitek Industries, Inc. Wed Feb 28 15:02:57 2024 Page 1
ID:VI_DQvite49Qy7axT?i10OzOYuG-8m3yV9Bh7AQRy?scokXB82u4CrY9AQDSkQVPizgawC



TOTAL WEIGHT = 2 X 106 = 211 lb

LUMBER				DESCR.	
N. L. G. A. RULES					
CHORDS	SIZE	LUMBER		DESCR.	
A - E	2x4	DRY	No.2	SPF	
E - H	2x4	DRY	No.2	SPF	
I - H	2x4	DRY	No.2	SPF	
Q - B	2x4	DRY	No.2	SPF	
Q - P	2x4	DRY	No.2	SPF	
P - C	2x4	DRY	No.2	SPF	
O - M	2x4	DRY	No.2	SPF	
K - F	2x4	DRY	No.2	SPF	
L - I	2x4	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
EXCEPT					
M - J	2x4	DRY	No.2	SPF	
Q - O	2x4	DRY	No.2	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	2.75
C	TMV+p	MT20	3.0	4.0		
D	TMVW-t	MT20	4.0	6.0		
E	TTWW-m	MT20	4.0	6.0	1.75	2.25
F	TMV+p	MT20	3.0	4.0		
G	TMVW-t	MT20	4.0	6.0		
H	TMVW+p	MT20	5.0	6.0		
I	BMV1+p	MT20	3.0	4.0		
J	BMVWW-t	MT20	6.0	10.0		
K	BMV+p	MT20	3.0	4.0		
M	BVMWWV-I	MT20	6.0	10.0	Edge	3.25
N	BMVW-t	MT20	4.0	6.0		
O	BVMWWV-I	MT20	6.0	10.0	3.00	3.50
P	BMV+p	MT20	3.0	4.0		
Q	BMVW1-t	MT20	4.0	6.0		

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

NOTES: (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX		IN-SX	
JT	1128	0	1128	0	1-8		1-8	
Q	1256	0	1256	0	5-8		1-8	

UNFACTORED REACTIONS

	1ST LCASE		MAX / MIN. COMPONENT REACTIONS		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
	COMBINED									
JT	801	505 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	296 / 0	0 / 0	0 / 0
Q	889	577 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	312 / 0	0 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.13 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX. (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM	TO		FR-TO		
A-B	0 / 27	-84.9	-84.9	0.12 (1)	10.00	O-D	0 / 519
B-C	-2242 / 0	-84.9	-84.9	0.17 (1)	4.41	D-N	-540 / 0
C-D	-2396 / 0	-84.9	-84.9	0.33 (1)	4.13	N-E	0 / 451
D-E	-1462 / 0	-84.9	-84.9	0.27 (1)	5.10	E-M	-126 / 0
E-F	-1212 / 0	-84.9	-84.9	0.23 (1)	5.54	J-G	-1045 / 0
F-G	-1206 / 0	-84.9	-84.9	0.21 (1)	5.57	J-H	0 / 1162
G-H	-664 / 0	-84.9	-84.9	0.18 (1)	6.25	M-J	0 / 669
I-H	-1098 / 0	0.0	0.0	0.77 (1)	7.55	M-G	0 / 878
Q-B	-1150 / 0	0.0	0.0	0.12 (1)	7.42	Q-O	-177 / 0
						B-O	0 / 1973
Q-P	0 / 153	-18.5	-18.5	0.03 (1)	10.00		
P-O	0 / 17	0.0	0.0	0.21 (1)	10.00		
O-C	-171 / 0	0.0	0.0	0.21 (1)	7.81		
O-N	0 / 1739	-18.5	-18.5	0.42 (1)	10.00		
N-M	0 / 1299	-18.5	-18.5	0.38 (4)	10.00		
K-M	0 / 38	0.0	0.0	0.05 (1)	10.00		
M-F	-380 / 0	0.0	0.0	0.08 (1)	7.81		
L-K	0 / 0	-18.5	-18.5	0.00 (4)	10.00		
K-J	0 / 31	-18.5	-18.5	0.08 (4)	10.00		
J-I	0 / 0	-18.5	-18.5	0.07 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 6.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 36.7	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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL)= L/999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL)= L/999 (0.23")

CSI: TC=0.77/1.00 (H-I:1), BC=0.42/1.00 (N-O:1), WB=0.59/1.00 (G-J:1), SS=0.17/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.72 (G) (INPUT = 0.90)
JSI METAL= 0.53 (B) (INPUT = 0.95)

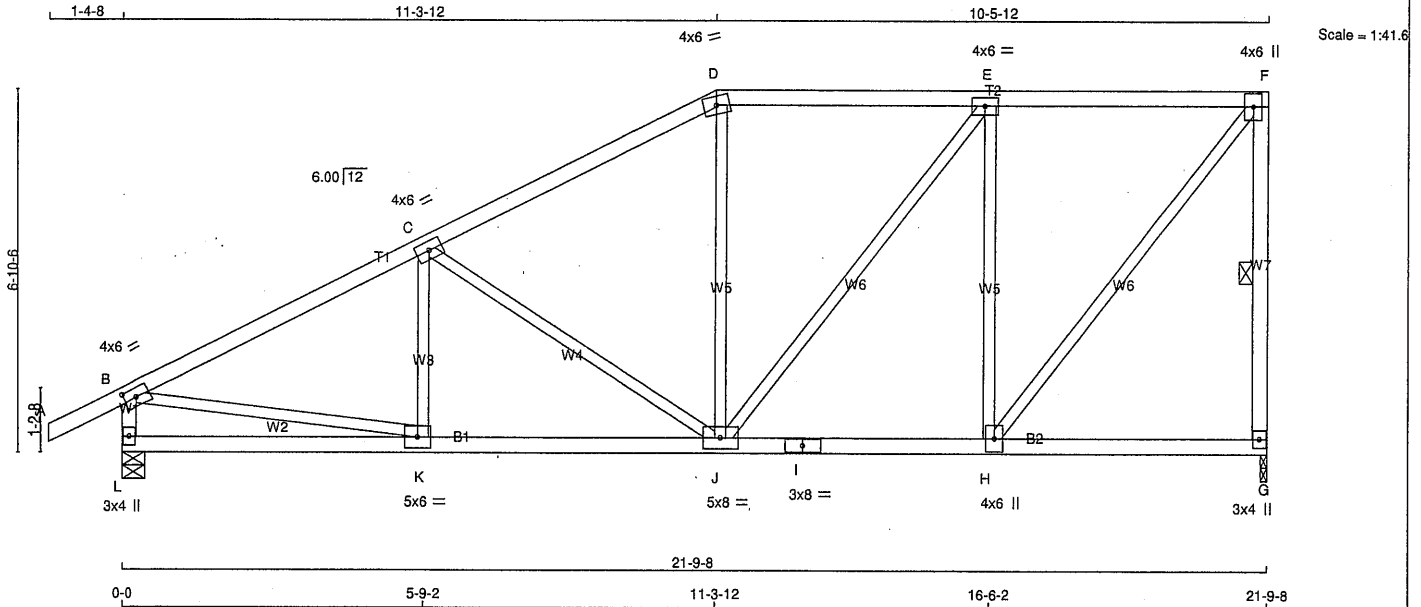


Structural component only
DWG# T-2406411

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T18	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 3 X 97 = 291 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
G - F	2x4	DRY	No.2
L - B	2x4	DRY	No.2
L - I	2x4	DRY	No.2
I - G	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	TMVW-t	MT20	4.0	6.0	2.00	3.00
C	TMVW-t	MT20	4.0	6.0		
D	TTW-m	MT20	4.0	6.0		
E	TMVW-t	MT20	4.0	6.0		
F	TMVW-p	MT20	4.0	6.0		
G	BMV1+p	MT20	3.0	4.0		
H	BMVW-t	MT20	4.0	6.0		
I	BS-t	MT20	3.0	8.0		
J	BMVW-t	MT20	5.0	8.0		
K	BMVW-t	MT20	5.0	6.0		
L	BMV1+p	MT20	3.0	4.0		

NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

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
G	1126	0	1126	0
L	1248	0	1248	0

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
G	799	507 / 0	0 / 0	0 / 0	0 / 0	292 / 0	0 / 0
L	884	575 / 0	0 / 0	0 / 0	0 / 0	309 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.94 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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)	LC1 MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	
FR-TO		FROM TO		FR-TO			
A-B	0 / 27	-84.9 -84.9 0.12 (1)	10.00	K-C	-96 / 58	0.02 (1)	
B-C	-1497 / 0	-84.9 -84.9 0.38 (1)	4.94	C-J	-514 / 0	0.44 (1)	
C-D	-1071 / 0	-84.9 -84.9 0.36 (1)	5.84	J-D	0 / 123	0.04 (4)	
D-E	-935 / 0	-84.9 -84.9 0.31 (1)	6.01	J-E	0 / 327	0.07 (1)	
E-F	-735 / 0	-84.9 -84.9 0.30 (1)	6.25	H-E	-809 / 0	0.64 (1)	
G-F	-1086 / 0	0.0 0.0 0.23 (1)	6.07	H-F	0 / 1174	0.26 (1)	
L-B	-1204 / 0	0.0 0.0 0.12 (1)	7.29	B-K	0 / 1378	0.31 (1)	
L-K	0 / 0	-18.5 -18.5 0.14 (4)	10.00				
K-J	0 / 1361	-18.5 -18.5 0.28 (1)	10.00				
J-I	0 / 735	-18.5 -18.5 0.18 (4)	10.00				
I-H	0 / 735	-18.5 -18.5 0.18 (4)	10.00				
H-G	0 / 0	-18.5 -18.5 0.12 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	23.3	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.4	PSF
TOTAL LOAD	=	36.7	PSF

SPACING = 24.0 IN./C

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

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.38/1.00 (B-C:1), BC=0.28/1.00 (J-K:1),
WB=0.64/1.00 (E-H:1), SSI=0.22/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(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= 0.69 (B) (INPUT = 0.90)

JSI METAL= 0.38 (B) (INPUT = 0.95)

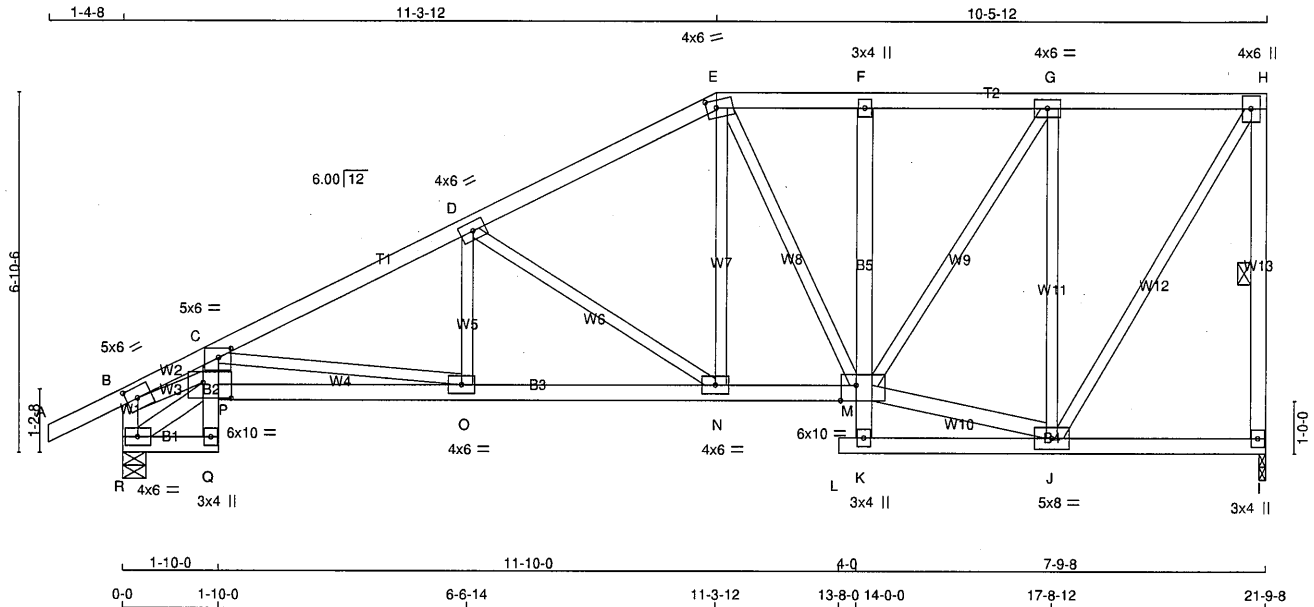


Structural component only
DWG# T-2406412

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T18S	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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

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	2.75
C TMVW-p	MT20	5.0	6.0	2.00	2.75
D TMVW-t	MT20	4.0	6.0		
E TTWW-m	MT20	4.0	6.0	1.75	2.25
F TMV-p	MT20	3.0	4.0		
G TMVW-t	MT20	4.0	6.0		
H TMVW-p	MT20	4.0	6.0		
I BMV1-p	MT20	3.0	4.0		
J BMVWW-t	MT20	5.0	8.0		
K BMV-p	MT20	3.0	4.0		
M BVMWW-t	MT20	6.0	10.0	Edge 3.50	
N BMVW-t	MT20	4.0	6.0		
O BMVW-t	MT20	4.0	6.0		
P BVMWW-t	MT20	6.0	10.0	3.50	6.50
Q BMV-p	MT20	3.0	4.0		
R BMVW1-t	MT20	4.0	6.0		

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

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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	IN-SX		IN-SX	
I	801	1128	0	1256	0	1-8		1-8	
R	889	1256	0	1256	0	5-8		1-8	

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	801	505 / 0	0 / 0	0 / 0	0 / 0	296 / 0	0 / 0
R	889	577 / 0	0 / 0	0 / 0	0 / 0	312 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.39 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 27	-84.9 -84.9	0.12 (1)	C-O	-574 / 0	0.23 (1)	
B-C	-2310 / 0	-84.9 -84.9	0.15 (1)	O-D	0 / 185	0.05 (4)	
C-D	-1871 / 0	-84.9 -84.9	0.30 (1)	D-N	-714 / 0	0.41 (1)	
D-E	-1248 / 0	-84.9 -84.9	0.26 (1)	N-E	0 / 469	0.11 (1)	
E-F	-1017 / 0	-84.9 -84.9	0.08 (1)	E-M	-193 / 0	0.13 (1)	
F-G	-1012 / 0	-84.9 -84.9	0.15 (1)	J-G	-1027 / 0	0.82 (1)	
G-H	-583 / 0	-84.9 -84.9	0.15 (1)	J-H	0 / 1121	0.25 (1)	
H-I	-1098 / 0	0.0 0.0	0.24 (1)	M-J	0 / 588	0.09 (1)	
R-B	-1146 / 0	0.0 0.0	0.12 (1)	M-G	0 / 776	0.17 (1)	
				R-P	-185 / 0	0.02 (1)	
				B-P	0 / 2050	0.46 (1)	
R-Q	0 / 159	-18.5 -18.5	0.03 (1)				
Q-P	0 / 17	0.0 0.0	0.22 (1)				
P-C	0 / 82	0.0 0.0	0.23 (1)				
P-O	0 / 2260	-18.5 -18.5	0.42 (1)				
O-N	0 / 1692	-18.5 -18.5	0.32 (1)				
N-M	0 / 1104	-18.5 -18.5	0.21 (1)				
K-M	0 / 38	0.0 0.0	0.04 (1)				
M-F	-274 / 0	0.0 0.0	0.07 (1)				
L-K	0 / 0	-18.5 -18.5	0.00 (4)				
K-J	0 / 25	-18.5 -18.5	0.08 (4)				
J-I	0 / 0	-18.5 -18.5	0.08 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN./C

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.30/1.00 (C-D:1), BC=0.42/1.00 (O-P:1), WB=0.82/1.00 (G-J:1), SSI=0.18/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.72 (J) (INPUT = 0.90)
JSI METAL= 0.54 (B) (INPUT = 0.95)

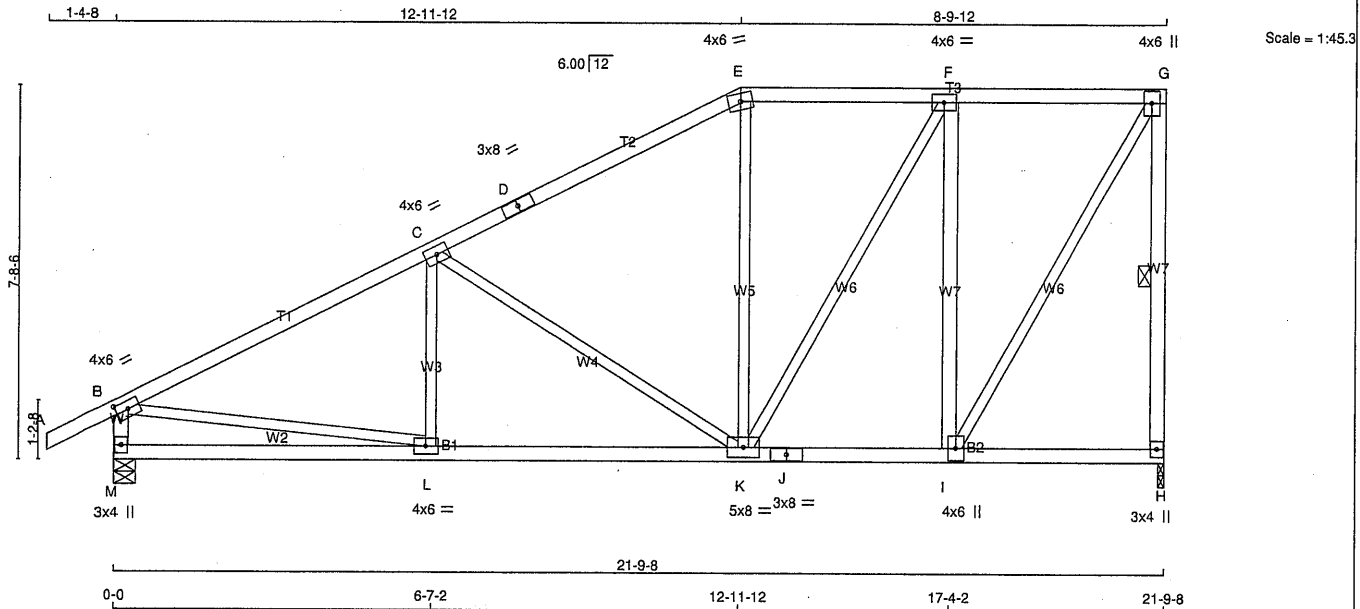


Structural component only
DWG# T-2406459

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T19	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
H - G	2x4	DRY	No.2
M - B	2x4	DRY	No.2
M - J	2x4	DRY	No.2
J - H	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
I - 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	6.0	2.00 3.00
C	TMVW-t	MT20	4.0	6.0	
D	TS-t	MT20	3.0	8.0	
E	TTW-m	MT20	4.0	6.0	
F	TMVW-t	MT20	4.0	6.0	
G	TMVW+p	MT20	4.0	6.0	
H	BMV1+p	MT20	3.0	4.0	
I	BMVW-t	MT20	4.0	6.0	
J	BS-t	MT20	3.0	8.0	
K	BMVW-t	MT20	5.0	8.0	
L	BMVW-t	MT20	4.0	6.0	
M	BMV1+p	MT20	3.0	4.0	

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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	IN-SX		IN-SX	
H	1126	0	0	1126	0	1-8		1-8	
M	1248	0	0	1248	0	5-8		1-8	
UNFACTORED REACTIONS									
		1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND		DEAD	SOIL
H	799	507 / 0	0 / 0	0 / 0	0 / 0	0 / 0		292 / 0	0 / 0
M	884	575 / 0	0 / 0	0 / 0	0 / 0	0 / 0		309 / 0	0 / 0
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) H, M									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.75 FT.									
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.									
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.									
1 LATERAL BRACE(S) AT 1/2 LENGTH OF G-H.									
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)	LC1 MAX	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO					FR-TO			FR-TO	
A-B	0 / 27	-84.9	-84.9	0.12 (1)	10.00	L-C	-48 / 90	0.03 (4)	
B-C	-1485 / 0	-84.9	-84.9	0.52 (1)	4.75	C-K	-662 / 0	0.81 (1)	
C-D	-924 / 0	-84.9	-84.9	0.47 (1)	5.76	K-E	0 / 78	0.03 (4)	
D-E	-924 / 0	-84.9	-84.9	0.47 (1)	5.76	K-F	0 / 464	0.10 (1)	
E-F	-800 / 0	-84.9	-84.9	0.21 (1)	6.25	I-F	-863 / 0	0.67 (1)	
F-G	-568 / 0	-84.9	-84.9	0.21 (1)	6.25	I-G	0 / 1104	0.25 (1)	
H-G	-1091 / 0	0.0	0.0	0.29 (1)	6.05	B-L	0 / 1367	0.31 (1)	
M-B	-1198 / 0	0.0	0.0	0.12 (1)	7.31				
M-L	0 / 0	-18.5	-18.5	0.19 (4)	10.00				
L-K	0 / 1355	-18.5	-18.5	0.32 (1)	10.00				
K-J	0 / 568	-18.5	-18.5	0.15 (4)	10.00				
J-I	0 / 568	-18.5	-18.5	0.15 (4)	10.00				
I-H	0 / 0	-18.5	-18.5	0.07 (4)	10.00				

DESIGN CRITERIA	
SPECIFIED LOADS:	
TOP CH.	LL = 23.3 PSF
	DL = 6.0 PSF
BOT CH.	LL = 0.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 36.7 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, NBC-2019AE	
- PART 9 OF OBC 2012 (2019 AMENDMENT)	
- CSA 086-14	
- TPIC 2014	
(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD	
ALLOWABLE DEFL.(LL)= L/360 (0.73")	
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")	
ALLOWABLE DEFL.(TL)= L/360 (0.73")	
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")	
CSI: TC=0.52/1.00 (B-C:1) , BC=0.32/1.00 (K-L:1) , WB=0.81/1.00 (C-K:1) , 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	
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 650 371 1747 788 1987 1873	
PLATE PLACEMENT TOL. = 0.250 inches	
PLATE ROTATION TOL. = 5.0 Deg.	
JSI GRIP= 0.79 (L) (INPUT = 0.90)	
JSI METAL= 0.38 (B) (INPUT = 0.95)	

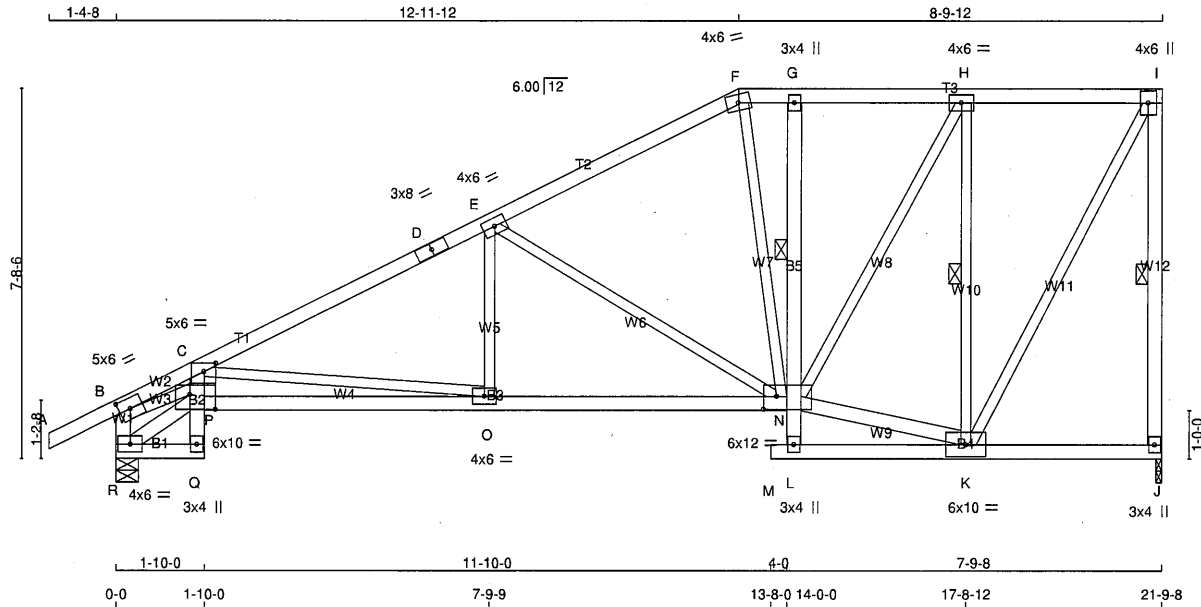


Structural component only
DWG# T-2406413

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T19S	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:V1_DQv1e49Qy7axT?i10OzOYuG-s19f?GhJ6DDkkmR?STpd08rsaV6QgDWF?DKAMuzgZoY



TOTAL WEIGHT = 2 X 116 = 232 lb
[M/F]

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	
J - L	2x4	DRY	No.2	SPF	
R - B	2x4	DRY	No.2	SPF	
R - Q	2x4	DRY	No.2	SPF	
Q - C	2x4	DRY	No.2	SPF	
P - N	2x4	DRY	No.2	SPF	
L - G	2x4	DRY	No.2	SPF	
M - J	2x4	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
EXCEPT					
R - P	2x4	DRY	No.2	SPF	
N - K	2x4	DRY	No.2	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	2.75
C	TMVW-p	MT20	5.0	6.0	2.00	3.00
D	TS-t	MT20	3.0	8.0		
E	TMVW-t	MT20	4.0	6.0		
F	TTW-m	MT20	4.0	6.0		
G	TMV+p	MT20	3.0	4.0		
H	TMVW-t	MT20	4.0	6.0		
I	TMVW-p	MT20	4.0	6.0		
J	BMV1+p	MT20	3.0	4.0		
K	BMVWW-t	MT20	6.0	10.0		
L	BMV+p	MT20	3.0	4.0		
N	BMVWWWW-t	MT20	6.0	12.0	3.25	3.25
O	BMVW-t	MT20	4.0	6.0		
P	BMVWW-t	MT20	6.0	10.0	3.75	6.50
Q	BMV+p	MT20	3.0	4.0		
R	BMVW1-t	MT20	4.0	6.0		

NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
J	1128	0	1128	0	1-8	1-8
R	1256	0	1256	0	5-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	801	505 / 0	0 / 0	0 / 0	0 / 0	296 / 0	0 / 0
R	889	577 / 0	0 / 0	0 / 0	0 / 0	312 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.32 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO				FR-TO			
A-B	0 / 27	-84.9	-84.9	0.12 (1)	10.00	C-O	-795 / 0	0.54 (1)	
B-C	-2399 / 0	-84.9	-84.9	0.15 (1)	4.32	O-E	0 / 236	0.07 (4)	
C-D	-1748 / 0	-84.9	-84.9	0.40 (1)	4.64	E-N	-864 / 0	0.86 (1)	
D-E	-1748 / 0	-84.9	-84.9	0.40 (1)	4.64	F-N	0 / 231	0.05 (1)	
E-F	-964 / 0	-84.9	-84.9	0.34 (1)	5.90	K-H	-1012 / 0	0.38 (1)	
F-G	-879 / 0	-84.9	-84.9	0.04 (1)	6.25	K-I	0 / 1091	0.25 (1)	
G-H	-875 / 0	-84.9	-84.9	0.15 (1)	6.25	R-P	-193 / 0	0.02 (1)	
H-I	-519 / 0	-84.9	-84.9	0.15 (1)	6.25	B-P	0 / 2148	0.48 (1)	
I-J	-1098 / 0	0.0	0.0	0.29 (1)	6.04	N-K	0 / 523	0.08 (1)	
R-B	-1142 / 0	0.0	0.0	0.12 (1)	7.44	N-H	0 / 714	0.16 (1)	

R-Q	0 / 166	-18.5	-18.5	0.04 (1)	10.00
Q-P	0 / 17	0.0	0.0	0.23 (1)	10.00
P-C	0 / 89	0.0	0.0	0.24 (1)	10.00
P-O	0 / 2368	-18.5	-18.5	0.49 (1)	10.00
O-N	0 / 1579	-18.5	-18.5	0.36 (1)	10.00
L-N	0 / 38	0.0	0.0	0.04 (1)	10.00
N-G	-187 / 0	0.0	0.0	0.03 (1)	6.25
M-L	0 / 0	-18.5	-18.5	0.00 (4)	10.00
L-K	0 / 22	-18.5	-18.5	0.08 (4)	10.00
K-J	0 / 0	-18.5	-18.5	0.08 (4)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN./C

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

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

CSI: TC=0.40/1.00 (C-E:1), BC=0.49/1.00 (O-P:1), WB=0.86/1.00 (E-N:1), SSI=0.21/1.00 (C-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 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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.74 (B) (INPUT = 0.90)
JSI METAL= 0.57 (B) (INPUT = 0.95)

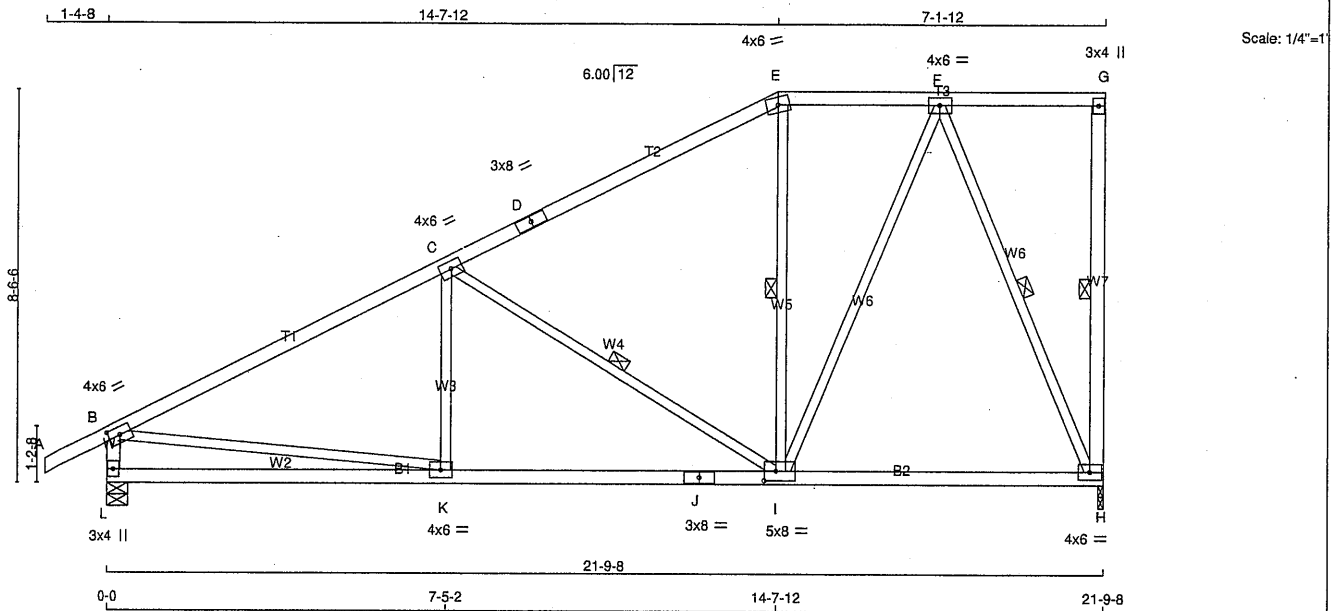


Structural component only
DWG# T-2406460

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T20	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:V1_DQv1e49Qy7axT?110OzOYuG-YLk58AEZQ5p?PSaBUS5umhWbo3zNMXQg8if901zgaw9



TOTAL WEIGHT = 3 X 100 = 300 lb

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 - G	2x4 DRY	No.2	SPF
	H - G	2x4 DRY	No.2	SPF
	L - B	2x4 DRY	No.2	SPF
	L - J	2x4 DRY	No.2	SPF
	J - H	2x4 DRY	No.2	SPF
	ALL WEBS	2x3 DRY	No.2	SPF
	EXCEPT			

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	6.0	2.00	3.00
C	TMVW-t	MT20	4.0	6.0		
D	TS-t	MT20	3.0	8.0		
E	TTW-m	MT20	4.0	6.0		
F	TMVW-t	MT20	4.0	6.0		
G	TMV+p	MT20	3.0	4.0		
H	BMVW1-t	MT20	4.0	6.0		
I	BMVW1-t	MT20	5.0	8.0	2.50	3.00
J	BS-t	MT20	3.0	8.0		
K	BMVW-t	MT20	4.0	6.0		
L	BMV1+p	MT20	3.0	4.0		

NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REORD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
H	1126	0	1126	0	1-8	1-8
L	1248	0	1248	0	5-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM.LIVE	WIND			
H	799	507/0	0/0	0/0	0/0	292/0	0/0
L	884	575/0	0/0	0/0	0/0	309/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.49 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRAC	MEMB.	WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED					MAX. FACTORED FORCE (LBS)	MAX. FACTORED
FR-TO						FR-TO		
A-B	0/27	-84.9	-84.9	0.12 (1)	10.00	K-C	-14/110	0.04 (4)
B-C	-1459/0	-84.9	-84.9	0.68 (1)	4.49	C-I	-795/0	0.41 (1)
C-D	-775/0	-84.9	-84.9	0.61 (1)	5.83	I-E	-12/56	0.02 (4)
D-E	-775/0	-84.9	-84.9	0.61 (1)	5.83	B-K	0/1345	0.30 (1)
E-F	-662/0	-84.9	-84.9	0.14 (1)	6.25	I-F	0/631	0.14 (1)
F-G	0/0	-84.9	-84.9	0.18 (1)	10.00	F-H	-1045/0	0.58 (1)
H-G	-117/0	0.0	0.0	0.04 (1)	6.25			
L-B	-1191/0	0.0	0.0	0.12 (1)	7.32			
L-K	0/0	-18.5	-18.5	0.23 (4)	10.00			
K-J	0/1335	-18.5	-18.5	0.35 (4)	10.00			
J-I	0/1335	-18.5	-18.5	0.35 (4)	10.00			
I-H	0/420	-18.5	-18.5	0.25 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD	=	36.7	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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL)= L/999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL)= L/999 (0.13")

CSI: TC=0.68/1.00 (B-C:1), BC=0.35/1.00 (I-K:4), WB=0.58/1.00 (F-H:1), SSI=0.27/1.00 (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)
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.76 (K) (INPUT = 0.90)
JSI METAL= 0.38 (B) (INPUT = 0.95)

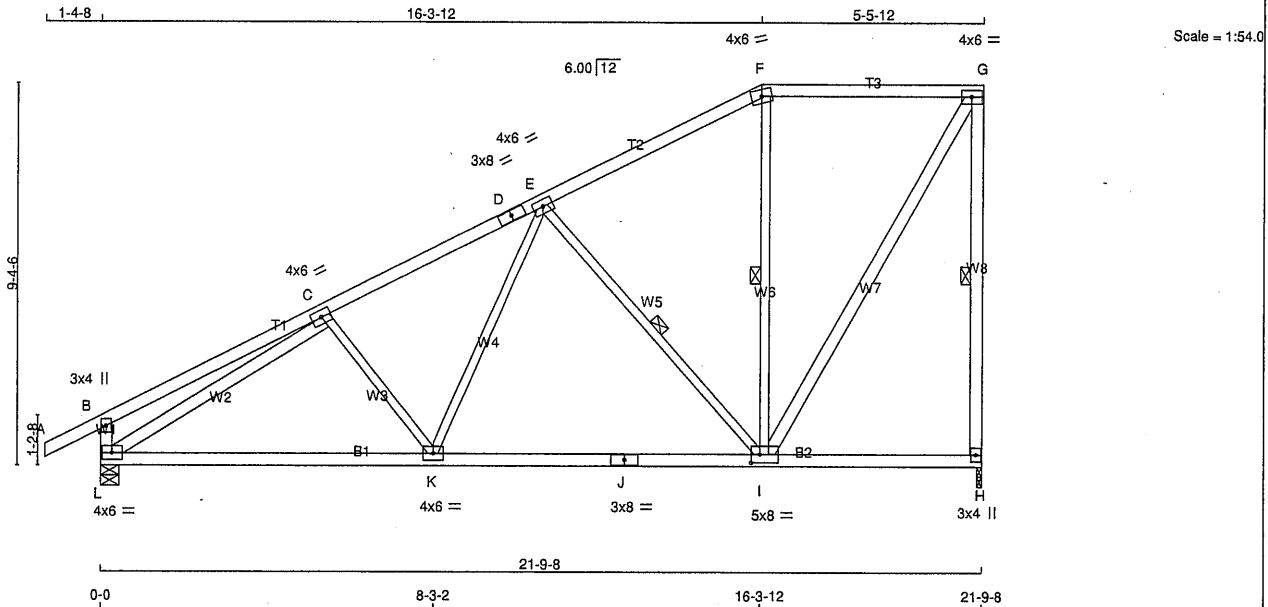


Structural component only
DWG# T-2406414

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T21	4	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 4 X 106 = 424 lb [M/F]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
F - G	2x4	DRY	No.2	SPF
H - G	2x4	DRY	No.2	SPF
L - B	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
I - G	2x4	DRY	No.2	SPF
L - C	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	4.0	6.0		
D TS-t	MT20	3.0	8.0		
E TMWW-t	MT20	4.0	6.0		
F TTW-m	MT20	4.0	6.0		
G TMWW-t	MT20	4.0	6.0		
H BMV1-p	MT20	3.0	4.0		
I BMWW-t	MT20	5.0	8.0	2.50	2.50
J BS-t	MT20	3.0	8.0		
K BMWW-t	MT20	4.0	6.0		
L BMWW-t	MT20	4.0	6.0		

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
H		1126	0	1126	0	0	1-8	1-8	
L		1248	0	1248	0	0	5-8	1-8	

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL		
H	799	507 / 0	0 / 0	0 / 0	0 / 0	292 / 0	0 / 0		
L	884	575 / 0	0 / 0	0 / 0	0 / 0	309 / 0	0 / 0		

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.36 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (LC)
FR-TO			
A-B	0 / 27	-84.9 -84.9	0.12 (1) 10.00
B-C	0 / 20	-84.9 -84.9	0.33 (1) 10.00
C-D	-1295 / 0	-84.9 -84.9	0.29 (1) 5.36
D-E	-1295 / 0	-84.9 -84.9	0.29 (1) 5.36
E-F	-592 / 0	-84.9 -84.9	0.28 (1) 6.25
F-G	-509 / 0	-84.9 -84.9	0.33 (1) 6.25
H-G	-1091 / 0	0.0 0.0	0.45 (1) 6.05
L-B	-310 / 0	0.0 0.0	0.03 (1) 7.81
L-K	0 / 1319	-18.5 -18.5	0.42 (4) 10.00
K-J	0 / 997	-18.5 -18.5	0.40 (4) 10.00
J-I	0 / 997	-18.5 -18.5	0.40 (4) 10.00
I-H	0 / 0	-18.5 -18.5	0.18 (4) 10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 6.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 36.7	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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.15")

CSI: TC=0.45/1.00 (G-H:1), BC=0.42/1.00 (K-L:4), WB=0.87/1.00 (C-L:1), SSI=0.19/1.00 (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= 0.76 (C) (INPUT = 0.90)
JSI METAL= 0.42 (J) (INPUT = 0.95)

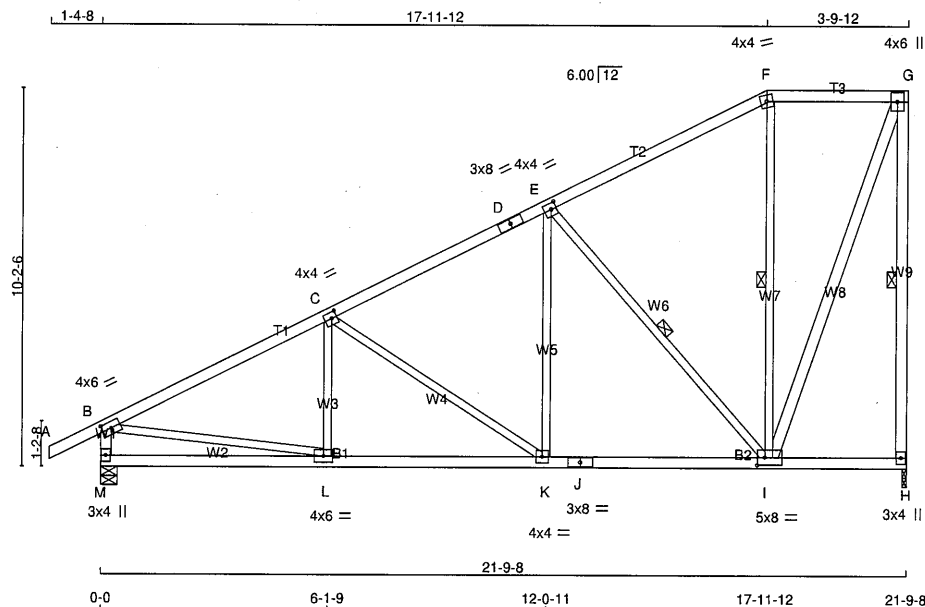


Structural component only
DWG# T-2406415

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T22	6	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:VI_DQvite49Qy7axT?i10OzOYug-KEj1DciytXLBw0C0AKsYMN?nuViPmGODt4juKzgZoX



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - G	2x4	DRY	No.2
H - G	2x4	DRY	No.2
M - B	2x4	DRY	No.2
M - J	2x4	DRY	No.2
J - H	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
I - G	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	6.0	2.00 3.00
C	TMWW-t	MT20	4.0	4.0	2.00 1.75
D	TS-t	MT20	3.0	8.0	
E	TMWW-t	MT20	4.0	4.0	2.00 1.75
F	TTW-m	MT20	4.0	4.0	
G	TMVW+p	MT20	4.0	6.0	
H	BMV1+p	MT20	3.0	4.0	
I	BMWW-t	MT20	5.0	8.0	2.50 2.50
J	BS-t	MT20	3.0	8.0	
K	BMWW-t	MT20	4.0	4.0	
L	BMWW-t	MT20	4.0	6.0	
M	BMV1+p	MT20	3.0	4.0	

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	HORZ	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
H	1126	0	1126	0	0	1-8	1-8		
M	1248	0	1248	0	0	5-8	1-8		

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	799	507 / 0	0 / 0	0 / 0	0 / 0	292 / 0	0 / 0
M	884	575 / 0	0 / 0	0 / 0	0 / 0	309 / 0	0 / 0

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MAX. FACTORED		FACTORED		MEMB.		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		
A-B	0 / 27	-84.9	-84.9	0.12 (1)	10.00	L-C	-75 / 68 0.02 (4)
B-C	-1477 / 0	-84.9	-84.9	0.42 (1)	4.93	C-K	-499 / 0 0.49 (1)
C-D	-1035 / 0	-84.9	-84.9	0.34 (1)	5.76	K-E	0 / 390 0.09 (1)
D-E	-1035 / 0	-84.9	-84.9	0.34 (1)	5.76	E-I	-870 / 0 0.51 (1)
E-F	-419 / 0	-84.9	-84.9	0.34 (1)	6.25	I-F	-187 / 0 0.13 (1)
F-G	-352 / 0	-84.9	-84.9	0.16 (1)	6.25	I-G	0 / 1005 0.16 (1)
H-G	-1103 / 0	0.0	0.0	0.56 (1)	6.03	B-L	0 / 1355 0.30 (1)
M-B	-1201 / 0	0.0	0.0	0.12 (1)	7.29		
M-L	0 / 0	-18.5	-18.5	0.15 (4)	10.00		
L-K	0 / 1341	-18.5	-18.5	0.29 (1)	10.00		
K-J	0 / 925	-18.5	-18.5	0.22 (1)	10.00		
J-I	0 / 925	-18.5	-18.5	0.22 (1)	10.00		
I-H	0 / 0	-18.5	-18.5	0.11 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.56/1.00 (G-H:1), BC=0.29/1.00 (K-L:1), WB=0.51/1.00 (E-I:1), SSI=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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.79 (L) (INPUT = 0.90)
JSI METAL= 0.37 (B) (INPUT = 0.95)

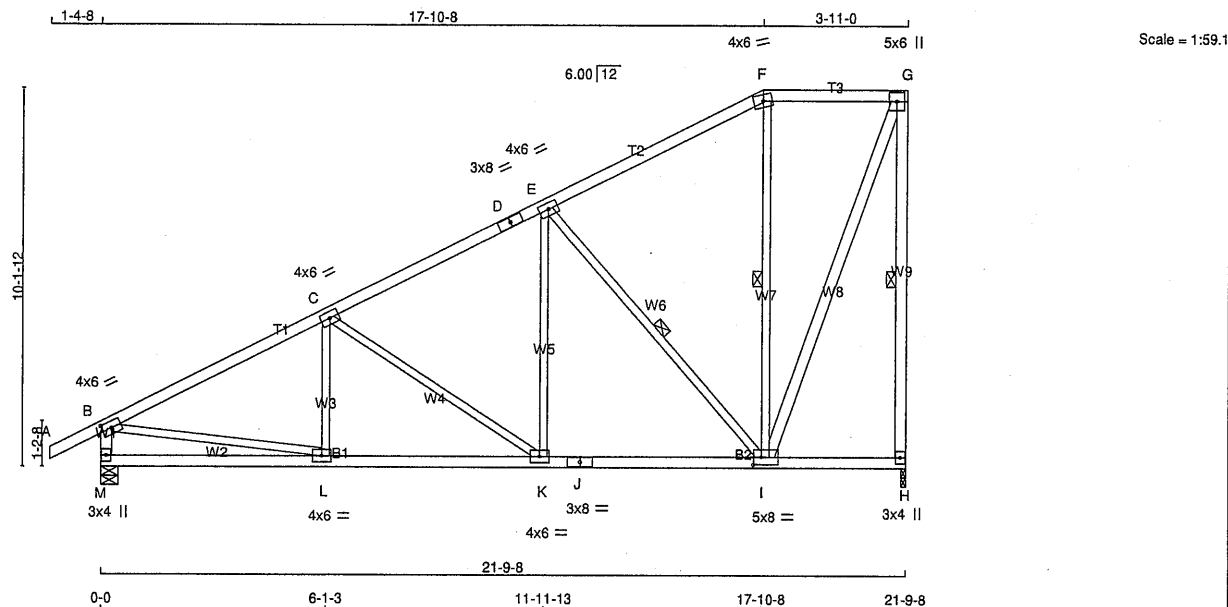


Structural component only
DWG# T-2406461

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T23	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:VI_DQvi1e49Qy7axT?110OzOYuG-VksrZsFpyl3jemkabt7Mr6czEsglqT5yb08G4vzgaw7



TOTAL WEIGHT = 3 X 111 = 333 lb [M](F)

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4 DRY	No.2	SPF
D - F	2x4 DRY	No.2	SPF
F - G	2x4 DRY	No.2	SPF
H - G	2x4 DRY	No.2	SPF
M - B	2x4 DRY	No.2	SPF
M - J	2x4 DRY	No.2	SPF
J - H	2x4 DRY	No.2	SPF
ALL WEBS	2x3 DRY	No.2	SPF
EXCEPT			
I - G	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	6.0	2.00 3.00
C	TMWW-t	MT20	4.0	6.0	
D	TS-t	MT20	3.0	8.0	
E	TMWW-t	MT20	4.0	6.0	
F	TTW-m	MT20	4.0	6.0	
G	TMVW+p	MT20	5.0	6.0	
H	BMV1+p	MT20	3.0	4.0	
I	BMWWW-t	MT20	5.0	8.0	2.50 2.50
J	BS-t	MT20	3.0	8.0	
K	BMWW-t	MT20	4.0	6.0	
L	BMWW-t	MT20	4.0	6.0	
M	BMV1+p	MT20	3.0	4.0	

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

JT	FACTORED		MAXIMUM FACTORED		INPUT	REQRD
	GROSS REACTION		GROSS REACTION			
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
H	1126	0	1126	0	1-8	1-8
M	1248	0	1248	0	5-8	1-8

UNFACTORED REACTIONS						
1ST LCASE MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
H	799	507 / 0	0 / 0	0 / 0	0 / 0	292 / 0
M	884	575 / 0	0 / 0	0 / 0	0 / 0	309 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.94 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

CHORDS				WEBS			
MEMB.	MAX. FACTORED	FACTORED		MEMB.	MAX. FACTORED		
	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)		FORCE (LBS)	MAX (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 27	-84.9	-84.9 0.12 (1)	10.00	L-C	-77 / 67	0.02 (4)
B-C	-1478 / 0	-84.9	-84.9 0.41 (1)	4.94	C-K	-494 / 0	0.48 (1)
C-D	-1041 / 0	-84.9	-84.9 0.33 (1)	5.75	K-E	0 / 386	0.09 (1)
D-E	-1041 / 0	-84.9	-84.9 0.33 (1)	5.75	E-I	-863 / 0	0.50 (1)
E-F	-429 / 0	-84.9	-84.9 0.34 (1)	6.25	I-F	-185 / 0	0.13 (1)
F-G	-362 / 0	-84.9	-84.9 0.17 (1)	6.25	I-G	0 / 1004	0.16 (1)
H-G	-1101 / 0	0.0	0.0 0.55 (1)	6.03	B-L	0 / 1355	0.31 (1)
M-B	-1201 / 0	0.0	0.0 0.12 (1)	7.29			
M-L	0 / 0	-18.5	-18.5 0.15 (4)	10.00			
L-K	0 / 1341	-18.5	-18.5 0.29 (1)	10.00			
K-J	0 / 931	-18.5	-18.5 0.22 (1)	10.00			
J-I	0 / 931	-18.5	-18.5 0.22 (1)	10.00			
I-H	0 / 0	-18.5	-18.5 0.11 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN./C

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09")

CSI: TC=0.55/1.00 (G-H:1) , BC=0.29/1.00 (K-L:1) , WB=0.50/1.00 (E-I:1) , SSI=0.21/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.79 (L) (INPUT = 0.90)
JSI METAL= 0.37 (E) (INPUT = 0.95)



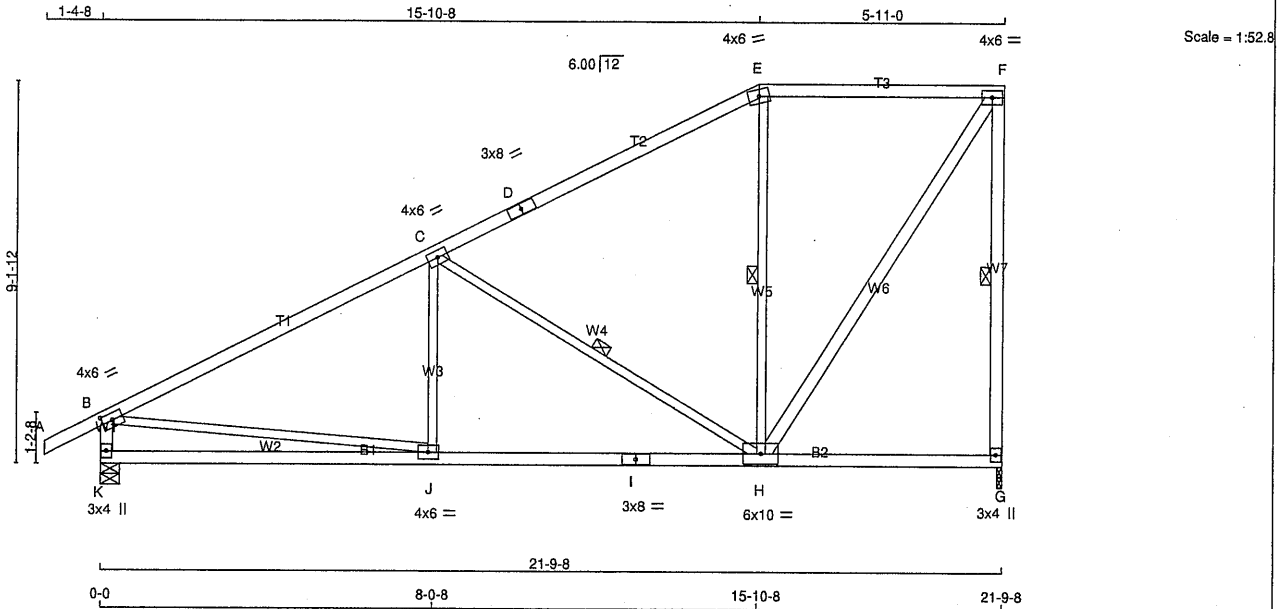
Structural component only
DWG# T-2406416

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T24	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:Vl_DQv1e49Qy7axT?110OzOYuG-zwQDmCGSj0BaGwJm9aebCj84xG_AZvW6qgtpcMzgaw6



TOTAL WEIGHT = 100 lb
[M/F]

LUMBER				LUMBER		DESCR.		
N. L. G. A. RULES		SIZE		LUMBER				
CHORDS						DESCR.		
A - D	2x4	DRY	No.2					
B - E	2x4	DRY	No.2			SPF		
E - F	2x4	DRY	No.2			SPF		
G - F	2x4	DRY	No.2			SPF		
K - B	2x4	DRY	No.2			SPF		
K - I	2x4	DRY	No.2			SPF		
I - G	2x4	DRY	No.2			SPF		
ALL WEBS	2x3	DRY	No.2			SPF		
EXCEPT								
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	6.0	2.00	3.00
C	TMVW-t	MT20	4.0	6.0		
D	TS-t	MT20	3.0	8.0		
E	TTW-m	MT20	4.0	6.0		
F	TMVW-t	MT20	4.0	6.0		
G	BMV1+p	MT20	3.0	4.0		
H	BMVWW-t	MT20	6.0	10.0		
I	BS-t	MT20	3.0	8.0		
J	BMVW-t	MT20	4.0	6.0		
K	BMV1+p	MT20	3.0	4.0		

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER											
BEARINGS											
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REORD BRG			
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX				
G	1126	0	1126	0	0	1-8	1-8				
K	1248	0	1248	0	0	5-8	1-8				
UNFACTORED REACTIONS											
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL				
G	799	507 / 0	0 / 0	0 / 0	0 / 0	292 / 0	0 / 0				
K	884	575 / 0	0 / 0	0 / 0	0 / 0	309 / 0	0 / 0				
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) G, K											
BRACING											
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.20 FT.											
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.											
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.											
1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-G, C-H, E-H.											
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW											
LOADING											
TOTAL LOAD CASES: (4)											
CHORDS					WEBS						
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)				
FR-TO		FROM TO			FR-TO						
A-B	0 / 27	-84.9	-84.9 0.12 (1)	10.00	J-C	0 / 135	0.05 (4)				
B-C	-1437 / 0	-84.9	-84.9 0.81 (1)	4.20	C-H	-902 / 0	0.55 (1)				
C-D	-654 / 0	-84.9	-84.9 0.73 (1)	5.83	H-E	-224 / 4	0.12 (1)				
D-E	-654 / 0	-84.9	-84.9 0.73 (1)	5.83	H-F	0 / 1000	0.16 (1)				
E-F	-549 / 0	-84.9	-84.9 0.38 (1)	6.25	B-J	0 / 1326	0.30 (1)				
G-F	-1086 / 0	0.0	0.0 0.42 (1)	6.07							
K-B	-1188 / 0	0.0	0.0 0.12 (1)	7.32							
K-J	0 / 0	-18.5	-18.5 0.29 (4)	10.00							
J-I	0 / 1318	-18.5	-18.5 0.41 (4)	10.00							
I-H	0 / 1318	-18.5	-18.5 0.41 (4)	10.00							
H-G	0 / 0	-18.5	-18.5 0.19 (4)	10.00							

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 , NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.15")

CSI: TC=0.81/1.00 (B-C:1) , BC=0.41/1.00 (H-J:4) .
WB=0.55/1.00 (C-H:1) , SSI=0.30/1.00 (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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.75 (J) (INPUT = 0.90)
JSI METAL= 0.49 (I) (INPUT = 0.95)

Structural component only
DWG# T-2406417



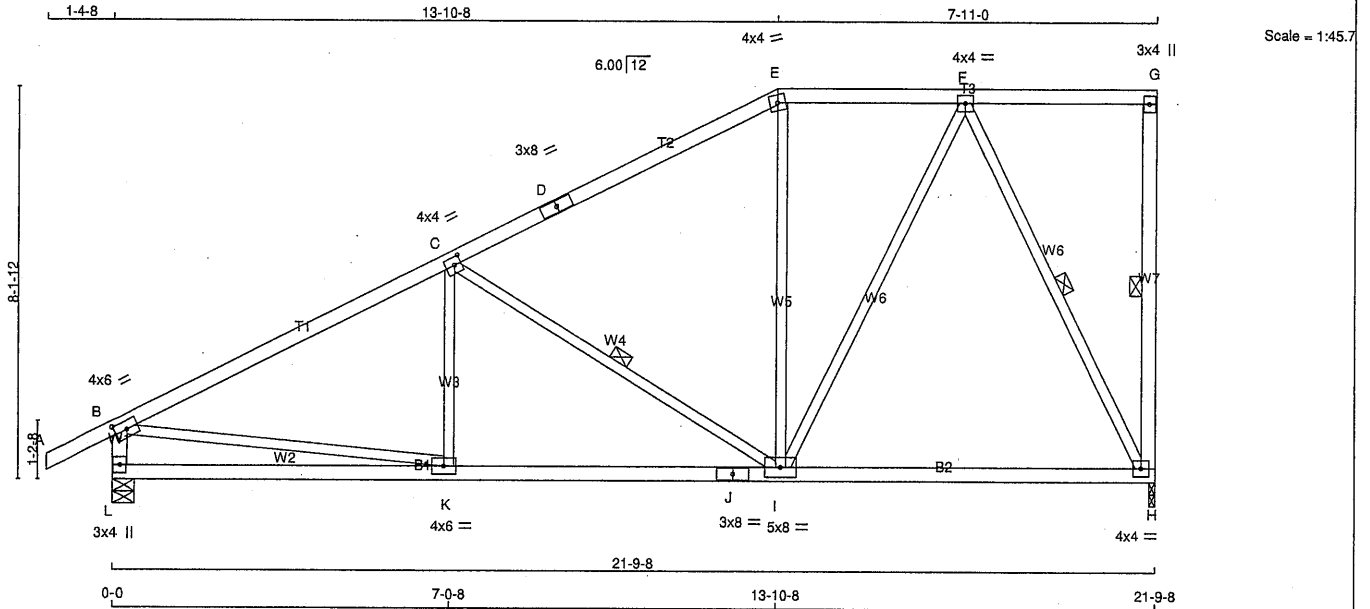
Structural component only
DWG# T-2406417

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T25	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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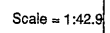


LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - D 2x4 DRY No.2 SPF D - E 2x4 DRY No.2 SPF E - G 2x4 DRY No.2 SPF H - G 2x4 DRY No.2 SPF L - B 2x4 DRY No.2 SPF L - J 2x4 DRY No.2 SPF J - H 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.
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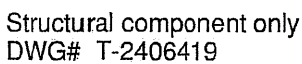


Structural component only
DWG# T-2406418

Tamarack Roof Truss, Burlington



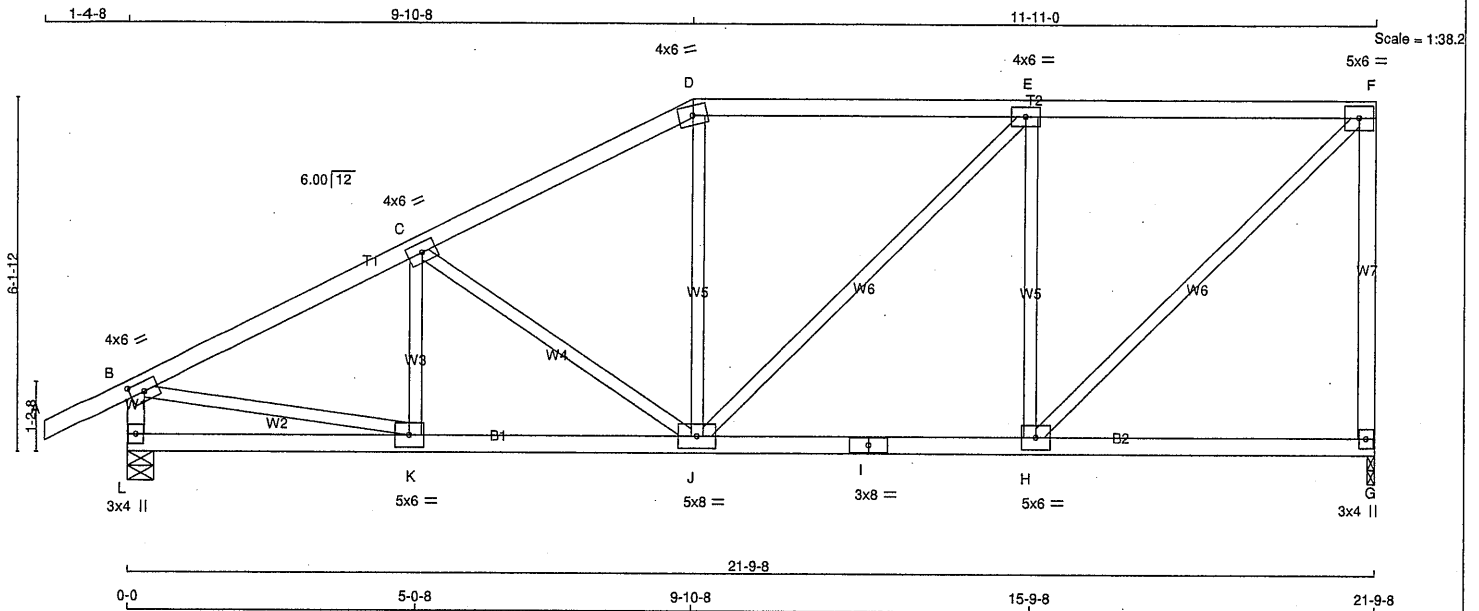
JSI GRIP= 0.69 (B) (INPUT = 0.90)
JSI METAL= 0.38 (B) (INPUT = 0.95)



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T27	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:VI_DQvi1e49Qy7axT?i10OzOYuG-NV5MOEIK?xZ97N2LqjCl0ymbTU10mHqYVd6TDgzgaw3



TOTAL WEIGHT = 93 lb

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

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	6.0	2.00	3.00
C	TMWW-t	MT20	4.0	6.0		
D	TTW-m	MT20	4.0	6.0		
E	TMWW-t	MT20	4.0	6.0		
F	TMVW-t	MT20	5.0	6.0		
G	BMV1+p	MT20	3.0	4.0		
H	BMWW-t	MT20	5.0	6.0		
I	BS-t	MT20	3.0	8.0		
J	BMWW-t	MT20	5.0	8.0		
K	BMWW-t	MT20	5.0	6.0		
L	BMV1+p	MT20	3.0	4.0		

NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BUILDING DESIGNER

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REORD
	GROSS REACTION	GROSS REACTION	BRG	
JT	VERT	HORZ	DOWN	HORZ
G	1126	0	1126	0
L	1248	0	1248	0

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERMLIVE	WIND	DEAD	SOIL
G	799	507/0	0/0	0/0	0/0	292/0	0/0
L	884	575/0	0/0	0/0	0/0	309/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.90 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD LC1	MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD LC1
	FORCE (LBS)	VERT. LOAD (PLF)	CSI (LC)		FORCE (LBS)	VERT. LOAD (PLF)	CSI (LC)
FR-TO		FROM TO		FR-TO		FROM TO	
A-B	0/27	-84.9 -84.9	0.12 (1)	K-C	-145/26	0.03 (1)	
B-C	-1494/0	-84.9 -84.9	0.40 (1)	C-J	-381/0	0.24 (1)	
C-D	-1188/0	-84.9 -84.9	0.37 (1)	J-D	0/177	0.04 (4)	
D-E	-1045/0	-84.9 -84.9	0.55 (1)	J-E	0/192	0.04 (1)	
E-F	-910/0	-84.9 -84.9	0.54 (1)	H-E	-763/0	0.45 (1)	
G-F	-1081/0	0.0 0.0	0.80 (1)	H-F	0/1271	0.29 (1)	
L-B	-1208/0	0.0 0.0	0.12 (1)	B-K	0/1377	0.31 (1)	
L-K	0/0	-18.5 -18.5	0.10 (4)				
K-J	0/1355	-18.5 -18.5	0.27 (1)				
J-I	0/910	-18.5 -18.5	0.24 (4)				
I-H	0/910	-18.5 -18.5	0.24 (4)				
H-G	0/0	-18.5 -18.5	0.16 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
DL = 6.0	PSF	
BOT CH.	LL = 0.0	PSF
DL = 7.4	PSF	
TOTAL LOAD = 36.7	PSF	

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL)= L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL)= L/999 (0.08")

CSI: TC=0.80/1.00 (F-G:1), BC=0.27/1.00 (J-K:1),
WB=0.45/1.00 (E-H:1), SSI=0.25/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

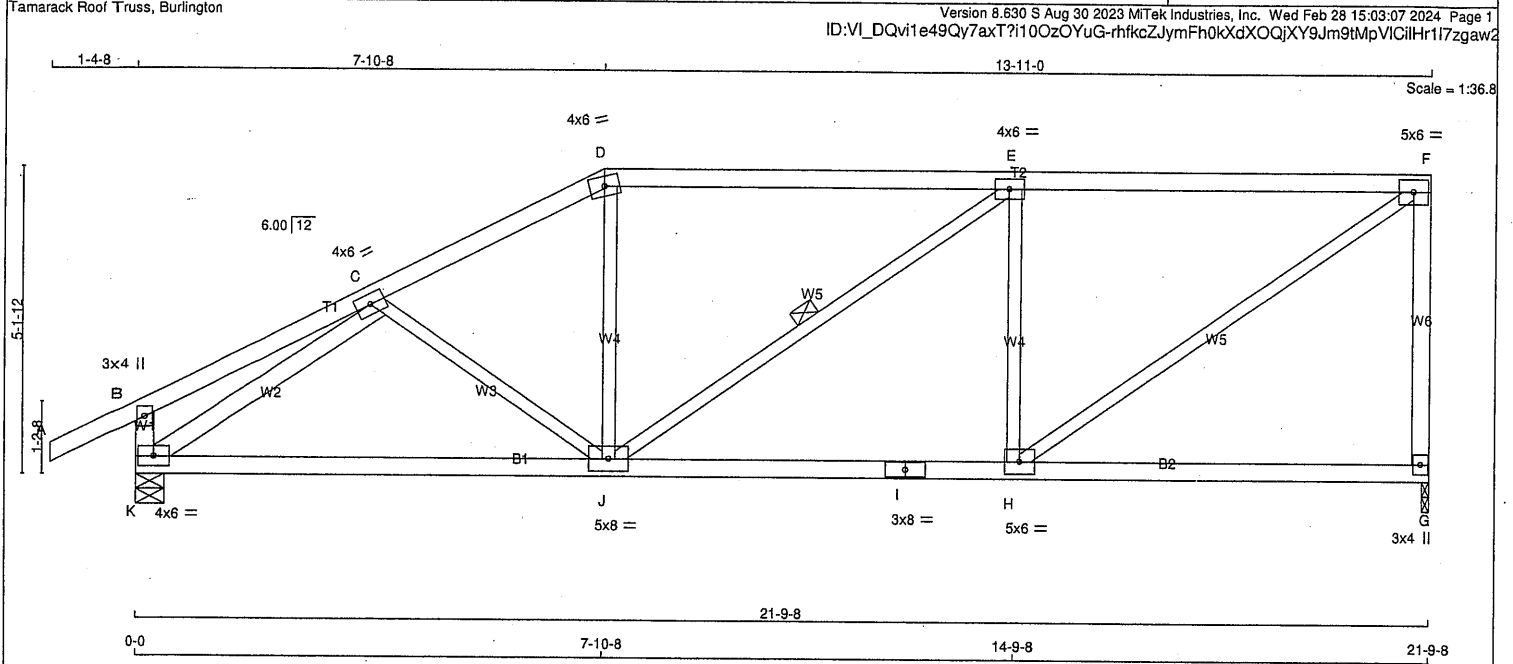
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.70 (B) (INPUT = 0.90)
JSI METAL= 0.37 (B) (INPUT = 0.95)



Structural component only
DWG# T-2406420

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T28	1	1	TRUSS DESC.		



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - D 2x4 DRY No.2 SPF D - F 2x4 DRY No.2 SPF G - F 2x4 DRY No.2 SPF K - B 2x4 DRY No.2 SPF K - I 2x4 DRY No.2 SPF I - G 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT K - C 2x4 DRY No.2 SPF DRY: SEASONED LUMBER.				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 6.0 PSF BOT CH. LL = 0.0 PSF DL = 7.4 PSF TOTAL LOAD = 36.7 PSF SPACING = 24.0 IN. C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF CBC 2018, NBC-2019AE - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.73") CALCULATED VERT. DEFL.(LL) = L/999 (0.05") ALLOWABLE DEFL.(TL)= L/360 (0.73") CALCULATED VERT. DEFL.(TL) = L/999 (0.15") CSI: TC=0.80/1.00 (E-F:1) , BC=0.36/1.00 (H-J:4) , WB=0.45/1.00 (C-K:1) , SSI=0.29/1.00 (E-F:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 1.00 AUTOSOLVE 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 650 371 1747 788 1987 1873 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.76 (K) (INPUT = 0.90) JSI METAL= 0.35 (I) (INPUT = 0.95)			
PLATES (table is in inches) JT TYPE PLATES W LEN Y X B TMV+p MT20 3.0 4.0 C TMWW-t MT20 4.0 6.0 D TTW-m MT20 4.0 6.0 E TMWW-t MT20 4.0 6.0 F TMVV-t MT20 5.0 6.0 G BMV1+p MT20 3.0 4.0 H BMWW-t MT20 5.0 6.0 I BS-t MT20 3.0 8.0 J BMWW-t MT20 5.0 8.0 K BMVV1-t MT20 4.0 6.0 NOTES- (1) 1) Lateral braces to be a minimum of 2X4 SPF #2.				BEARINGS FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQRD BRG JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX G 1126 0 1126 0 0 1-8 1-8 K 1248 0 1248 0 0 5-8 1-8 UNFACTORED REACTIONS 1ST LCASE MAX/MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL G 799 507 / 0 0 / 0 0 / 0 292 / 0 0 / 0 K 884 575 / 0 0 / 0 0 / 0 309 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) G, K BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.47 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. 1 LATERAL BRACE(S) AT 1/2 LENGTH OF E-J. END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW LOADING TOTAL LOAD CASES: (4) CHORDS WEBS MEMB. FORCE FACTORED VERT. LOAD LC1 MAX. MAX. MEMB. FORCE MAX. FACTORED (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC) FR-TO FROM TO A-B 0 / 27 -84.9 -84.9 0.12 (1) 10.00 C-J -120 / 18 0.05 (1) B-C 0 / 16 -84.9 -84.9 0.20 (1) 10.00 J-D 0 / 244 0.05 (1) C-D -1344 / 0 -84.9 -84.9 0.23 (1) 5.33 J-E -35 / 15 0.02 (1) D-E -1192 / 0 -84.9 -84.9 0.79 (1) 4.52 H-E -712 / 0 0.28 (1) E-F -1220 / 0 -84.9 -84.9 0.80 (1) 4.47 H-F 0 / 1485 0.33 (1) G-F -1072 / 0 0.0 0.0 0.48 (1) 7.61 K-C -1588 / 0 0.45 (1) K-B -254 / 0 0.0 0.0 0.03 (1) 7.81 K-J 0 / 1284 -18.5 -18.5 0.36 (4) 10.00 J-I 0 / 1220 -18.5 -18.5 0.36 (4) 10.00 I-H 0 / 1220 -18.5 -18.5 0.36 (4) 10.00 H-G 0 / 0 -18.5 -18.5 0.19 (4) 10.00			



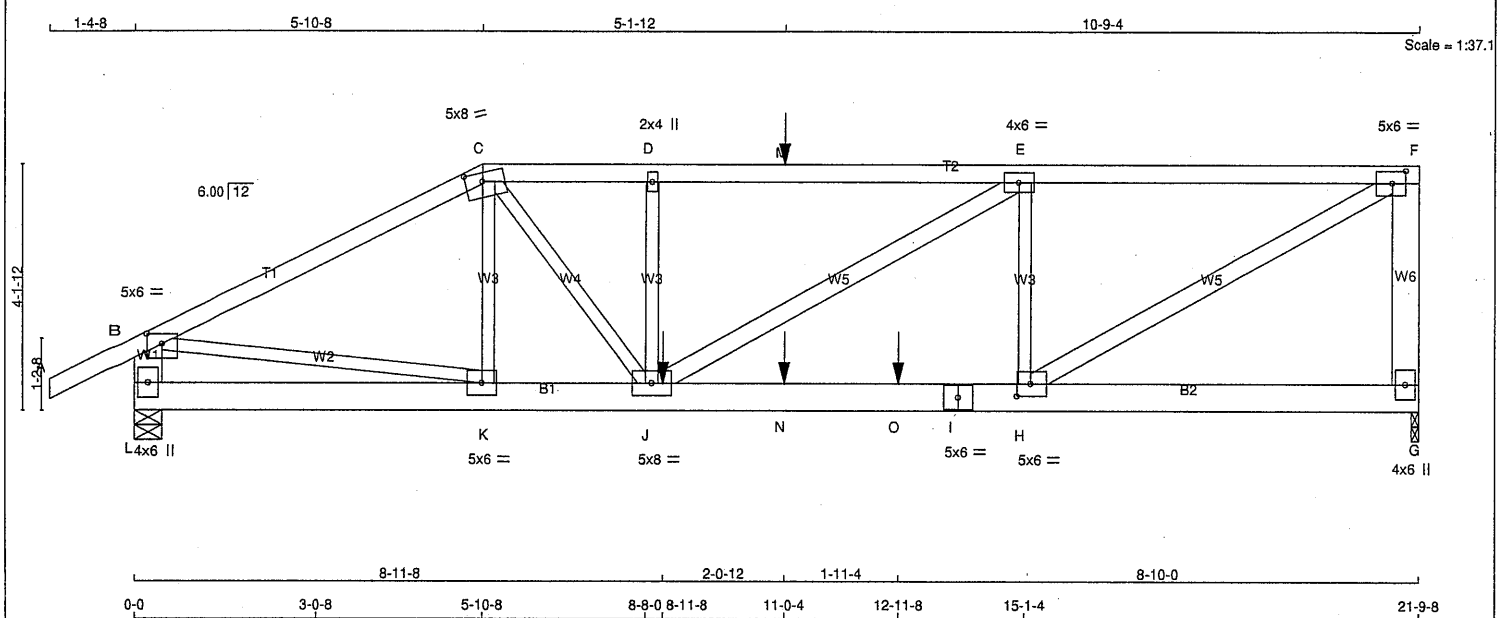
Structural component only
DWG# T-2406421

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T29	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:sd0FDfbi38oVqvTaiRkhtSzPaD-n4nU1FLCIsxk_rmwVrf?daOBfHzBzfb_CbK8q?zgaw0



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - C 2x4 DRY No.2 SPF C - F 2x4 DRY No.2 SPF G - F 2x6 DRY No.2 SPF L - B 2x6 DRY No.2 SPF L - I 2x6 DRY No.2 SPF I - G 2x6 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT H - F 2x4 DRY No.2 SPF J - E 2x4 DRY No.2 SPF DRY: SEASONED LUMBER. DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS: CHORDS #ROWS SURFACE SPACING (IN) LOAD(PLF) TOP CHORDS : (0.122"x3") SPIRAL NAILS A-C 1 12 TOP C-F 1 12 SIDE(0.0) F-G 2 12 TOP L-B 2 12 TOP BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS L-I 2 12 SIDE(183.1) I-G 2 12 TOP WEBS : (0.122"x3") SPIRAL NAILS D-J 1 6 SIDE(88.7) 2x3 1 6 2x4 1 6 NAILS TO BE DRIVEN FROM ONE SIDE ONLY. GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS. TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQRD JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX G 2317 0 2317 0 0 1-8 1-8 L 2427 0 2427 0 0 5-8 1-8 UNFACTORED REACTIONS 1ST LCASE MAX/MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL G 1640 1068 / 0 0 / 0 0 / 0 572 / 0 0 / 0 L 1715 1132 / 0 0 / 0 0 / 0 583 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) G, L 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. LOADING TOTAL LOAD CASES: (4) CHORDS MAX. FACTORED FORCE VERT. LOAD LC1 MAX. MAX. WEBS MAX. FACTORED FORCE MAX. MEMB. (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC) FR-TO FROM TO A-B 0 / 27 -84.9 -84.9 0.07 (1) 10.00 K-C -556 / 0 0.07 (1) B-C -3484 / 0 -84.9 -84.9 0.39 (1) 4.64 B-K 0 / 3143 0.39 (1) C-D -4500 / 0 -84.9 -84.9 0.27 (1) 4.25 C-J 0 / 2298 0.28 (1) D-M -4500 / 0 -84.9 -84.9 0.50 (1) 4.05 J-D -545 / 0 0.07 (1) M-E -4500 / 0 -84.9 -84.9 0.50 (1) 4.05 H-F 0 / 4307 0.38 (1) E-F -3752 / 0 -84.9 -84.9 0.47 (1) 4.41 J-E 0 / 871 0.08 (1) G-F -2334 / 0 0.0 0.0 0.19 (1) 7.81 H-E -1150 / 0 0.15 (1) L-B -2358 / 0 0.0 0.0 0.08 (1) 7.81 L-K 0 / 0 -18.5 -18.5 0.05 (4) 10.00 K-J 0 / 3099 -18.5 -18.5 0.38 (1) 10.00 J-N 0 / 3752 -18.5 -18.5 0.69 (1) 10.00 N-O 0 / 3752 -18.5 -18.5 0.69 (1) 10.00 O-I 0 / 3752 -18.5 -18.5 0.69 (1) 10.00 I-H 0 / 3752 -18.5 -18.5 0.69 (1) 10.00 H-G 0 / 0 -18.5 -18.5 0.19 (1) 10.00 SPECIFIED CONCENTRATED LOADS (LBS) JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE HEEL CONN. J 8-11-8 -733 -733 --- BACK VERT TOTAL --- C1 M 11-0-4 -113 -113 --- BACK VERT TOTAL --- C1 N 11-0-4 -29 -29 --- BACK VERT TOTAL --- C1 O 12-11-8 -796 -796 --- BACK VERT TOTAL --- C1 CONNECTION REQUIREMENTS 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 6.0 PSF BOT CH. LL = 0.0 PSF DL = 7.4 PSF TOTAL LOAD = 36.7 PSF SPACING = 24.0 IN. C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF BCBC 2018 , NBC-2019AE - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.73") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.11") ALLOWABLE DEFL.(TL)= L/360 (0.73") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.21") CSI: TC=0.50/1.00 (D-E:1) , BC=0.69/1.00 (H-J:1) , WB=0.39/1.00 (B-K:1) , SSI=0.27/1.00 (H-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 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 650 371 1747 788 1987 1873 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.78 (F) (INPUT = 0.90) JSI METAL= 0.51 (I) (INPUT = 0.95)			
--	--	--	--	---	--	--	--	--	--	--	--



Structural component only

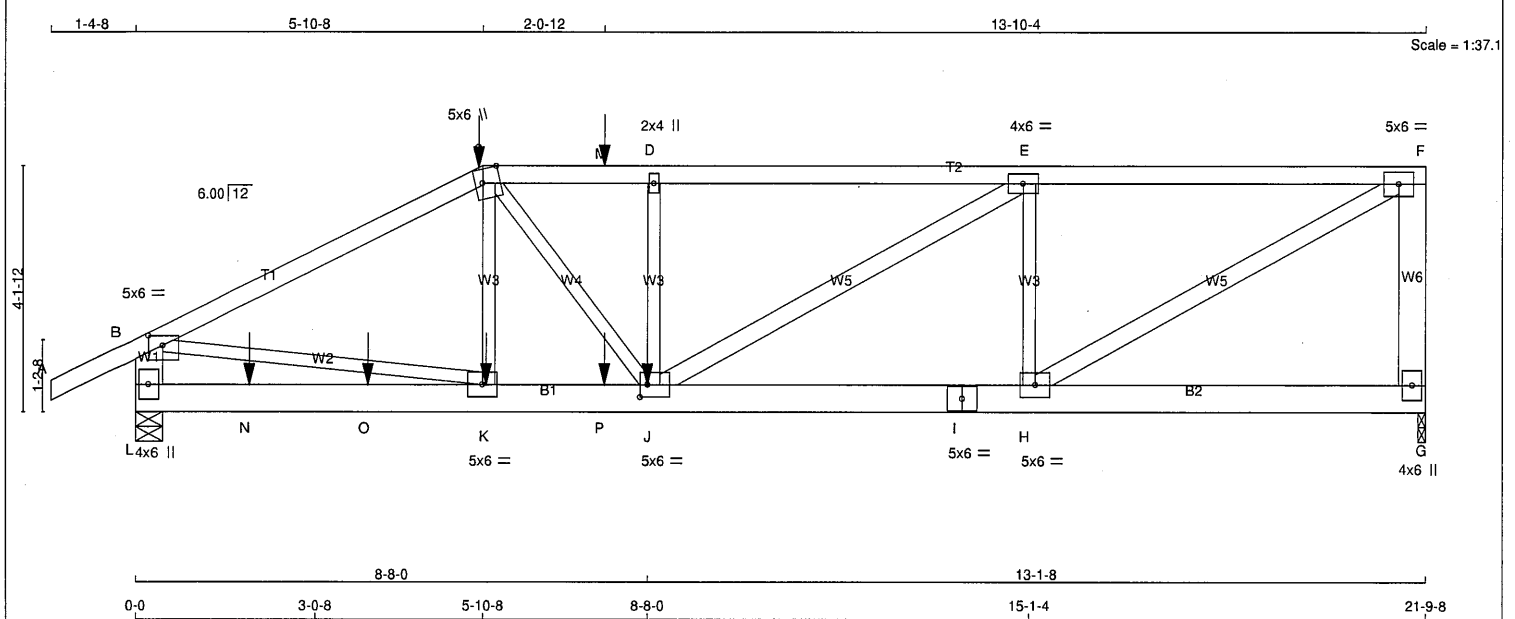
DWG# T-2406422

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T29Z	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:sd0FDfbi38oVqvTaiRkhtSzPAoD-oQHPQyjaeqTSz4bOaur55ZwBJlrG8EoXSXpHQmzgZoW



TOTAL WEIGHT = 2 X 106 = 212 lb		[M]	
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - C 2x4 DRY No.2 SPF C - F 2x4 DRY No.2 SPF G - F 2x6 DRY No.2 SPF L - B 2x6 DRY No.2 SPF L - I 2x6 DRY No.2 SPF I - G 2x6 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT H - F 2x4 DRY No.2 SPF J - E 2x4 DRY No.2 SPF DRY: SEASONED LUMBER. DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS: CHORDS #ROWS SURFACE SPACING (IN) LOAD(PLF) TOP CHORDS : (0.122"x3") SPIRAL NAILS A- C 1 12 SIDE(61.0) C- F 1 12 SIDE(61.0) F- G 2 12 TOP L- B 2 12 TOP BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS L- I 2 12 SIDE(183.1) I- G 2 12 TOP WEBS : (0.122"x3") SPIRAL NAILS K- C 1 6 SIDE(7.5) D- J 1 6 SIDE(178.6) 2x3 1 6 2x4 1 6 NAILS TO BE DRIVEN FROM ONE SIDE ONLY. GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS. TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.		DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED MAXIMUM FACTORED INPUT REQRD GROSS REACTION GROSS REACTION BRG BRG JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX G 1911 0 1911 0 0 1-8 1-8 L 2655 0 2655 0 0 5-8 1-8 UNFACTORED REACTIONS 1ST LCASE MAX /MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL G 1353 878 / 0 0 / 0 0 / 0 0 / 0 474 / 0 0 / 0 L 1879 1223 / 0 0 / 0 0 / 0 0 / 0 657 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) G, L BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.21 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS WEBS MAX. FACTORED MAX. FACTORED MEMB. FORCE VERT. LOAD LC1 MAX MAX. MEMB. MAX. FORCE MAX. (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC) FR-TO FROM TO A- B 0 / 27 -84.9 -84.9 0.07 (1) 10.00 K- C -251 / 71 0.03 (1) B- C -3849 / 0 -84.9 -84.9 0.41 (1) 4.44 B- K 0 / 3472 0.43 (1) C- M -4284 / 0 -84.9 -84.9 0.19 (1) 4.44 C- J 0 / 1395 0.17 (1) M- D -4284 / 0 -84.9 -84.9 0.19 (1) 4.44 J- D -519 / 0 0.07 (1) D- E -4284 / 0 -84.9 -84.9 0.45 (1) 4.21 H- F 0 / 3321 0.29 (1) E- F -2893 / 0 -84.9 -84.9 0.38 (1) 5.00 J- E 0 / 1619 0.14 (1) G- F -1857 / 0 0.0 0.0 0.15 (1) 7.81 H- E -1474 / 0 0.19 (1) L- B -2566 / 0 0.0 0.0 0.09 (1) 7.81 L- N 0 / 0 -18.5 -18.5 0.08 (4) 10.00 N- O 0 / 0 -18.5 -18.5 0.08 (4) 10.00 O- K 0 / 0 -18.5 -18.5 0.08 (4) 10.00 K- P 0 / 3434 -18.5 -18.5 0.27 (1) 10.00 P- J 0 / 3434 -18.5 -18.5 0.27 (1) 10.00 J- I 0 / 2893 -18.5 -18.5 0.24 (1) 10.00 I- H 0 / 2893 -18.5 -18.5 0.24 (1) 10.00 H- G 0 / 0 -18.5 -18.5 0.05 (4) 10.00 SPECIFIED CONCENTRATED LOADS (LBS) JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE HEEL CONN. C 5-10-8 -343 -343 --- FRONT VERT TOTAL --- C1 J 8-8-0 -977 -977 --- FRONT VERT TOTAL --- C1 K 5-11-4 -29 -29 --- FRONT VERT TOTAL --- C1 M 7-11-4 -113 -113 --- FRONT VERT TOTAL --- C1 N 1-11-4 -29 -29 --- FRONT VERT TOTAL --- C1 O 3-11-4 -29 -29 --- FRONT VERT TOTAL --- C1 P 7-11-4 -29 -29 --- FRONT VERT TOTAL --- C1 CONNECTION REQUIREMENTS 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.	
		DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 6.0 PSF BOT CH. LL = 0.0 PSF DL = 7.4 PSF TOTAL LOAD = 36.7 PSF SPACING = 24.0 IN./C LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF CBC 2018 , NBC-2019AE - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.73") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.07") ALLOWABLE DEFL.(TL)= L/360 (0.73") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.13") CSI: TC=0.45/1.00 (D-E:1) , BC=0.27/1.00 (J-K:1) , WB=0.43/1.00 (B-K:1) , SSI=0.15/1.00 (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 (FSI) (PLI) (PLI) 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= 0.80 (C) (INPUT = 0.90) JSI METAL= 0.39 (K) (INPUT = 0.95)	
Structural component only DWG# T-2406462		CONTINUED ON PAGE 2	



Structural component only
DWG# T-2406462

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T29Z	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	2.00	2.75
C	TTWW+m	MT20	5.0	6.0	Edge	3.50
D	TMW+w	MT20	2.0	4.0		
E	TMWW-t	MT20	4.0	6.0		
F	TMVW-t	MT20	5.0	6.0		
G	BMV1+p	MT20	4.0	6.0		
H	BMWW-t	MT20	5.0	6.0		
I	BS-t	MT20	5.0	6.0		
J	BMWWW-t	MT20	5.0	6.0	2.50	1.50
K	BMWW-t	MT20	5.0	6.0		
L	BMV1+p	MT20	4.0	6.0		

Edge - INDICATES REFERENCE CORNER OF PLATE

TOUCHES EDGE OF CHORD.

NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

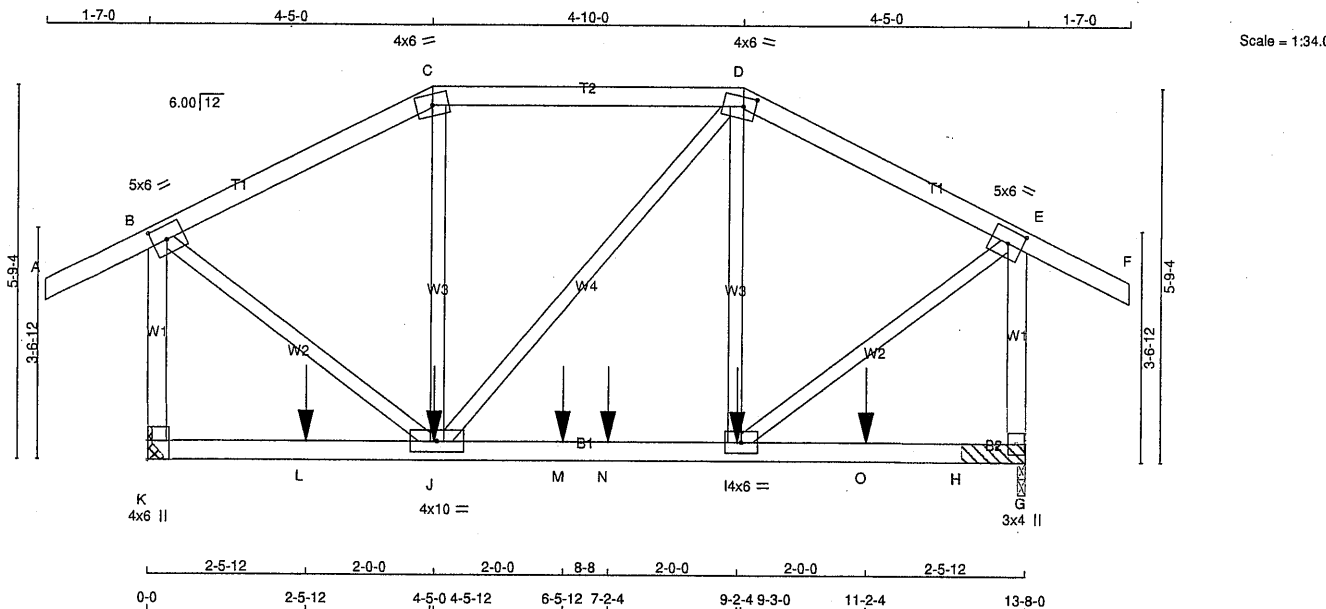


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T30	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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LUMBER				DESCR.
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER		
A - C	2x4	DRY	No.2	SPF
C - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
K - B	2x4	DRY	No.2	SPF
G - E	2x4	DRY	No.2	SPF
K - G	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-t	MT20	5.0	6.0	2.50 2.75
C	TTW-m	MT20	4.0	6.0	
D	TTWW-m	MT20	4.0	6.0	1.75 2.25
E	TMVW-t	MT20	5.0	6.0	2.50 2.75
G	BMV1+p	MT20	3.0	4.0	
I	BMWW-t	MT20	4.0	6.0	
J	BMWW-t	MT20	4.0	10.0	
K	BMV1+t	MT20	4.0	6.0	3.50

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

Structural component only
DWG# T-2406423

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
	FACTORED		MAXIMUM FACTORED		INPUT	REQRD			
	GROSS REACTION		GROSS REACTION		BRG	BRG			
JT	VERT	HORIZ	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX		
K	1576	0	1576	0	0	MECHANICAL			
G	1576	0	1576	0	0	1-8	1-8 & BLOCK		
A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT K. MINIMUM BEARING LENGTH AT JOINT K = 3-8.									

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
K	1111	749/0	0/0	0/0	0/0	362/0	0/0
G	1111	749/0	0/0	0/0	0/0	362/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) G
2x4 DRY SPF No.2 BEARING BLOCK 12" LONG AT JT. G ATTACHED TO FRONT SIDE WITH 2 ROWS OF (0.122"x3") SPIRAL NAILS SPACED 2" C.C. 12 NAILS TOTAL.

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.66 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 LC1 (LC)	MAX. FACTORED UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH (LC)		
FR-TO		FROM TO			FR-TO				
A-B	0/31	-84.9 -84.9	0.18 (1)	10.00	J-C	0/79	0.03 (4)		
B-C	-1043/0	-84.9 -84.9	0.34 (1)	5.66	J-D	0/0	0.00 (1)		
C-D	-933/0	-84.9 -84.9	0.40 (1)	5.80	I-D	0/78	0.03 (4)		
D-E	-1043/0	-84.9 -84.9	0.34 (1)	5.66	B-J	0/1148	0.28 (1)		
E-F	0/31	-84.9 -84.9	0.18 (1)	10.00	I-E	0/1148	0.28 (1)		
K-B	-1466/0	0.0 0.0	0.32 (1)	6.72					
G-E	-1466/0	0.0 0.0	0.32 (1)	6.72					
K-L	0/0	-18.5 -18.5	0.42 (1)	10.00					
L-J	0/0	-18.5 -18.5	0.42 (1)	10.00					
J-M	0/933	-18.5 -18.5	0.58 (1)	10.00					
M-N	0/933	-18.5 -18.5	0.58 (1)	10.00					
N-I	0/933	-18.5 -18.5	0.58 (1)	10.00					
I-O	0/0	-18.5 -18.5	0.42 (1)	10.00					
O-H	0/0	-18.5 -18.5	0.42 (1)	10.00					
H-G	0/0	-18.5 -18.5	0.42 (1)	10.00					

SPECIFIED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
I	9-2-4	-155	-155	---	FRONT	VERT	TOTAL	---	C1
J	4-5-12	-155	-155	---	FRONT	VERT	TOTAL	---	C1
L	2-5-12	-204	-204	---	FRONT	VERT	TOTAL	---	C1
M	6-5-12	-155	-155	---	FRONT	VERT	TOTAL	---	C1
N	7-2-4	-155	-155	---	FRONT	VERT	TOTAL	---	C1
O	11-2-4	-204	-204	---	FRONT	VERT	TOTAL	---	C1

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

DESIGN CRITERIA			
SPECIFIED LOADS:			
TOP CH.	LL	=	23.3 PSF
	DL	=	6.0 PSF
BOT CH.	LL	=	0.0 PSF
	DL	=	7.4 PSF
TOTAL LOAD	=	36.7 PSF	

SPACING = 24.0 IN./C

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.46")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.46")
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.40/1.00 (C-D:1) , BC=0.58/1.00 (I-J:1) , WB=0.28/1.00 (B-J:1) , SSI=0.23/1.00 (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

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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.71 (B) (INPUT = 0.90)
JSI METAL= 0.27 (B) (INPUT = 0.95)

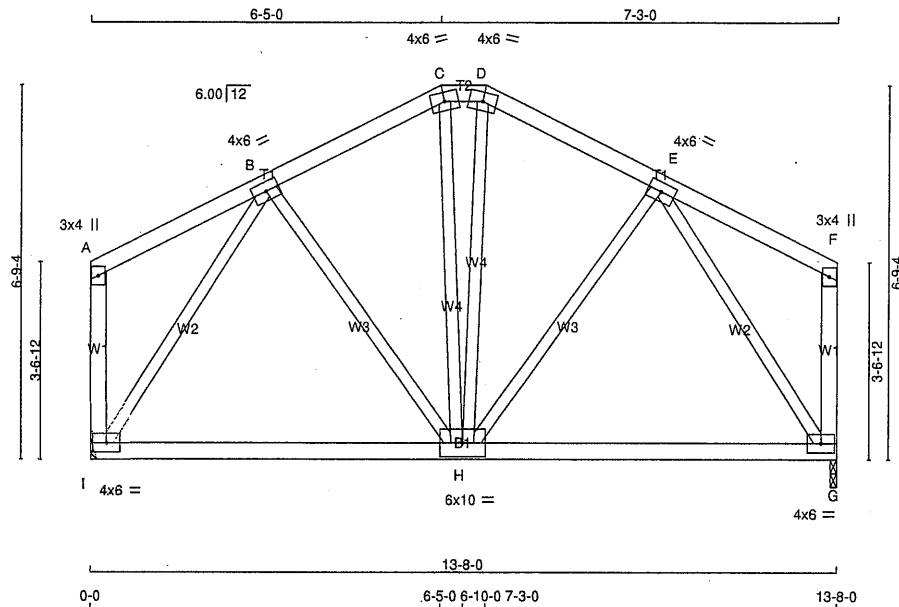


Structural component only
DWG# T-2406423

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T31	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:39.9

TOTAL WEIGHT = 68 lb

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
I - A	2x4	DRY	No.2
G - F	2x4	DRY	No.2
I - 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
A	TMV+p	MT20	3.0	4.0		
B	TMWW-t	MT20	4.0	6.0		
C	TTW-m	MT20	4.0	6.0		
D	TTW-m	MT20	4.0	6.0		
E	TMWW-t	MT20	4.0	6.0		
F	TMV+p	MT20	3.0	4.0		
G	BMVW1-t	MT20	4.0	6.0		
H	BMVWW-t	MT20	6.0	10.0		
I	BMVW1-t	MT20	4.0	6.0		

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER					
BEARINGS					
	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REORD BRG	
JT	VERT	HORZ	DOWN	HORZ	IN-SX
I	706	0	706	0	0
G	706	0	706	0	0
MECHANICAL					
1-8 1-8					
A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT I. MINIMUM BEARING LENGTH AT JOINT I = 1-8.					

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN. SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	501	318/0	0/0	0/0	0/0	183/0	0/0
G	501	318/0	0/0	0/0	0/0	183/0	0/0

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

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

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

LOADING					
TOTAL LOAD CASES: (4)					
CHORDS			WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO	
A-B	0/14	-84.9 -84.9 0.14 (1)	10.00	B-H	0/50
B-C	-444/0	-84.9 -84.9 0.11 (1)	6.25	H-E	0/50
C-D	-387/0	-84.9 -84.9 0.01 (1)	6.25	I-B	-664/0
D-E	-444/0	-84.9 -84.9 0.11 (1)	6.25	E-G	-664/0
E-F	0/14	-84.9 -84.9 0.14 (1)	10.00	C-H	0/55
I-A	-105/0	0.0 0.0 0.02 (1)	7.81	H-D	0/55
G-F	-105/0	0.0 0.0 0.02 (1)	7.81		
I-H	0/367	-18.5 -18.5 0.28 (4)	10.00		
H-G	0/367	-18.5 -18.5 0.28 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN./C

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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 (0.05")

CSI: TC=0.14/1.00 (A-B:1), BC=0.28/1.00 (H-I:4),
WB=0.37/1.00 (B-I:1), SSI=0.12/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

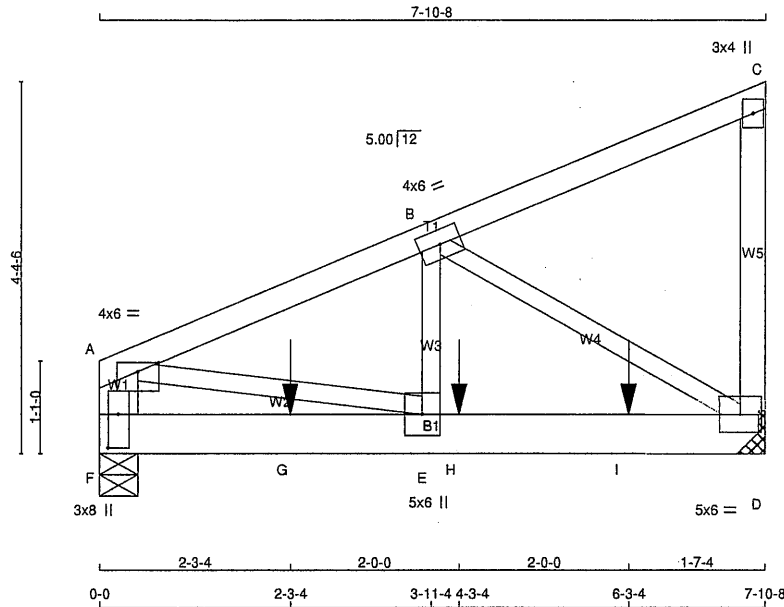
JSI GRIP= 0.42 (G) (INPUT = 0.90)
JSI METAL= 0.13 (B) (INPUT = 0.95)

Structural component only
DWG# T-2406424

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T33	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:25.8

TOTAL WEIGHT = 2 X 37 = 73 lb

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C 1	12	TOP
C - D 1	12	TOP
F - A 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F - D 2	12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)	PLATES	W	LEN	Y	X
JT TYPE					
A TMVW-p	MT20	4.0	6.0	Edge	
B TMWW-l	MT20	4.0	6.0		

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REORD BRG
JT	VERT	HORZ	DOWN	HORZ
D	1777	0	1777	0
F	1971	0	1971	0

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS	DEAD	SOIL
JT COMBINED			
D	1257 825 / 0	0 / 0	431 / 0
F	1391 927 / 0	0 / 0	464 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.71 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	VERT. LOAD LC1	MEMB.	FORCE
	(LBS)	(PLF)		(LBS)
FR-TO		FROM TO	FR-TO	
A-B	-2393 / 0	-84.9 -84.9 0.11 (1)	E-B	0 / 1849
B-C	-11 / 0	-84.9 -84.9 0.09 (1)	B-D	-2581 / 0
D-C	-137 / 0	0.0 0.0 0.02 (1)	A-E	0 / 2254
F-A	-1455 / 0	0.0 0.0 0.05 (1)		
F-G	0 / 0	-18.5 -18.5 0.41 (1)		
G-E	0 / 0	-18.5 -18.5 0.41 (1)		
E-H	0 / 2220	-18.5 -18.5 0.41 (1)		
H-I	0 / 2220	-18.5 -18.5 0.41 (1)		
I-D	0 / 2220	-18.5 -18.5 0.41 (1)		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	2-3-4	-1097	-1097	---	BACK	VERT	TOTAL	---	C1
H	4-3-4	-487	-487	---	FRONT	VERT	TOTAL	---	C1
I	6-3-4	-487	-487	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.26")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.26")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.11/1.00 (A-B:1), BC=0.41/1.00 (E-F:1),
WB=0.43/1.00 (B-D:1), SSI=0.37/1.00 (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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.72 (B) (INPUT = 0.90)
JSI METAL= 0.40 (E) (INPUT = 0.95)



Structural component only
DWG# T-2406426

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T33	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
C	TMV+p	MT20	3.0	4.0		
D	BMVW1-t	MT20	5.0	6.0		
E	BMWW+t	MT20	5.0	6.0		
F	BMV1+p	MT20	3.0	8.0	4.75	1.50

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

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

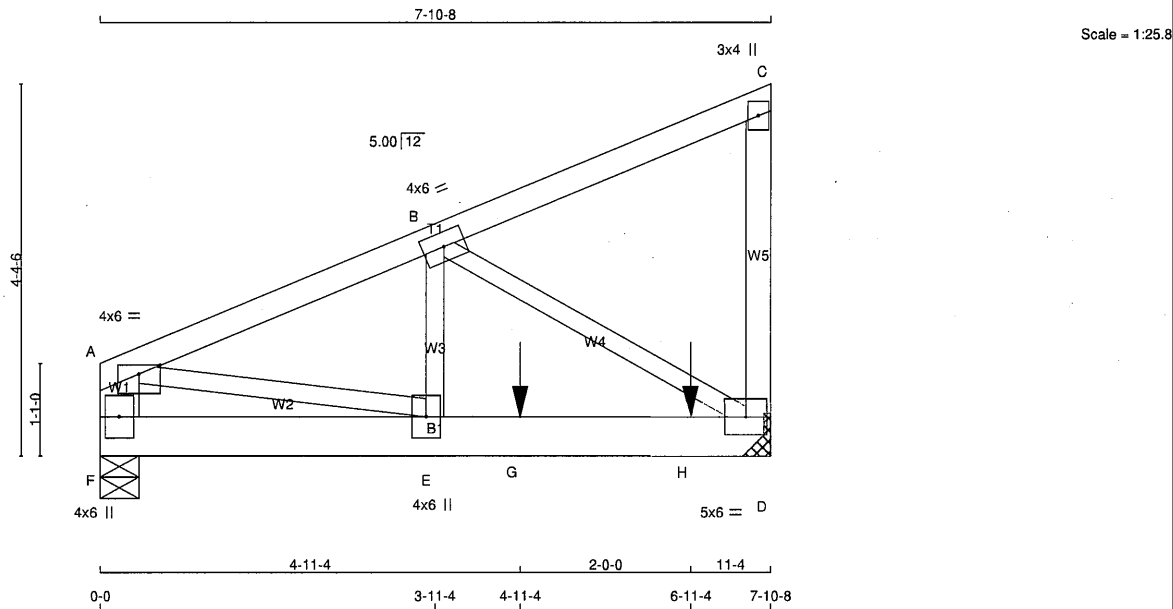


Structural component only
DWG# T-2406426

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T33Z	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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LUMBER					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA				
N. L. G. A. RULES															SPECIFIED LOADS:				
CHORDS SIZE LUMBER DESCR. SPF															TOP CH. LL = 23.3 PSF				
A - C 2x4 DRY No.2 SPF															DL = 6.0 PSF				
D - C 2x4 DRY No.2 SPF															BOT CH. LL = 0.0 PSF				
F - A 2x6 DRY No.2 SPF															DL = 7.4 PSF				
F - D 2x6 DRY No.2 SPF															TOTAL LOAD = 36.7 PSF				
ALL WEBS 2x3 DRY No.2 SPF															SPACING = 24.0 IN. C/C				
EXCEPT															GIRDER TYPE: CStdGirder				
DRY: SEASONED LUMBER.															START DISTANCE = 0-0				
DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:															START SPAN CARRIED = 5-6-0				
															END DISTANCE = 4-11-4				
															END SPAN CARRIED = 5-6-0				
															END WALL WIDTH = 4-0				
															APPLIED TO FRONT SIDE OF BOTTOM CHORD.				
															- ADDTL LOADS BASED ON 55 % OF GSL.				
															THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015				
															THIS DESIGN COMPLIES WITH:				
															- PART 9 OF CBC 2018 , NBC-2019AE				
															- PART 9 OF OBC 2012 (2019 AMENDMENT)				
															- CSA 086-14				
															- TPIC 2014				
															(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD				
															ALLOWABLE DEFL.(LL)= L/360 (0.26")				
															CALCULATED VERT. DEFL.(LL) = L/999 (0.02")				
															ALLOWABLE DEFL.(TL)= L/360 (0.26")				
															CALCULATED VERT. DEFL.(TL) = L/999 (0.04")				
															CSI: TC=0.11/1.00 (A-B:1), BC=0.37/1.00 (D-E:1), WB=0.32/1.00 (B-D:1), SSI=0.41/1.00 (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 650 371 1747 788 1987 1873				
															PLATE PLACEMENT TOL. = 0.250 inches				
															PLATE ROTATION TOL. = 5.0 Deg.				
															JSI GRIP= 0.69 (E) (INPUT = 0.90)				
															JSI METAL= 0.37 (E) (INPUT = 0.95)				



Structural component only
DWG# T-2406463

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T33Z	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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PLATES (table is in inches)

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

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

NOTES- (1)

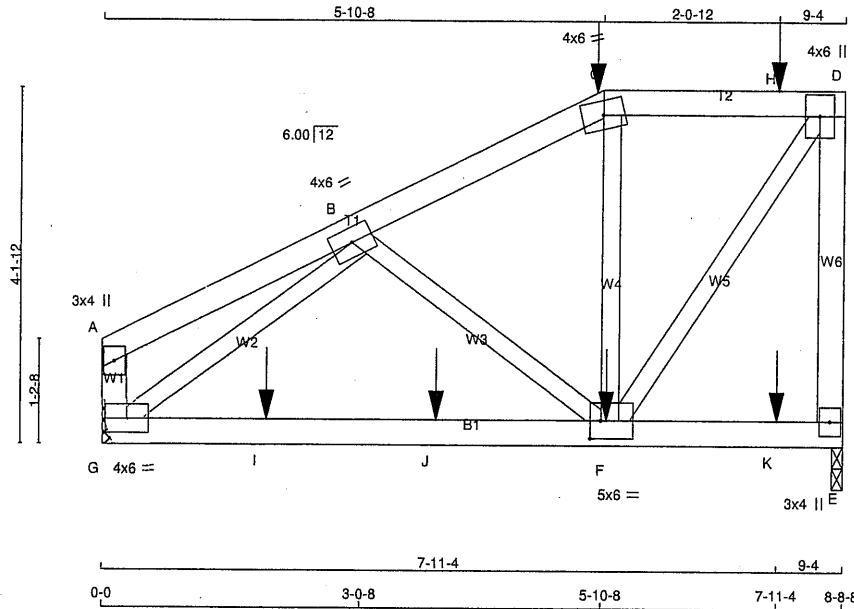
1) Lateral braces to be a minimum of 2X4 SPF #2.



Structural component only
DWG# T-2406463

JOB NAME 425913	TRUSS NAME T36	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:25.7

TOTAL WEIGHT = 38 lb

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMV+p	MT20	3.0	4.0	
B	TMVW-t	MT20	4.0	6.0	
C	TTW-m	MT20	4.0	6.0	
D	TMVW+p	MT20	4.0	6.0	
E	BMV1+p	MT20	3.0	4.0	
F	BMVWW-t	MT20	5.0	6.0	2.50 1.50
G	BMVW1-t	MT20	4.0	6.0	

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REORD	
JT	VERT	GROSS	REACT	DOWN	HORIZ	IN-SX	BRG	IN-SX	BRG
E	1015	0	1015	0	0	1-8			
G	683	0	683	0	0	MECHANICAL			

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	719	464/0	0/0	0/0	0/0	255/0	0/0
G	488	295/0	0/0	0/0	0/0	192/0	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)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE	VERT. LOAD	LC1	MEMB.	FORCE	VERT. LOAD	LC1
FR-TO	(LBS)	(PLF)	CSI (LC)	FR-TO	(LBS)	(PLF)	CSI (LC)
A-B	0/12	-84.9	-84.9 0.12 (1)	F-C	-470/0	0.13 (1)	
B-C	-624/0	-84.9	-84.9 0.13 (1)	F-D	0/923	0.23 (1)	
C-H	-533/0	-84.9	-84.9 0.25 (1)	B-F	-111/4	0.03 (1)	
H-D	-533/0	-84.9	-84.9 0.25 (1)	G-B	-813/0	0.21 (1)	
E-D	-999/0	0.0	0.0 0.28 (1)				
G-A	-98/0	0.0	0.0 0.01 (1)				
G-I	0/633	-18.5	-18.5 0.34 (4)				
I-J	0/633	-18.5	-18.5 0.34 (4)				
J-F	0/633	-18.5	-18.5 0.34 (4)				
F-K	0/0	-18.5	-18.5 0.28 (4)				
K-E	0/0	-18.5	-18.5 0.28 (4)				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	5-10-8	-331	-331	---	BACK	VERT	TOTAL	---	C1
F	5-11-4	-29	-29	---	BACK	VERT	TOTAL	---	C1
H	7-11-4	-120	-120	---	BACK	VERT	TOTAL	---	C1
I	1-11-4	-29	-29	---	BACK	VERT	TOTAL	---	C1
J	3-11-4	-29	-29	---	BACK	VERT	TOTAL	---	C1
K	7-11-4	-30	-30	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD	=	36.7	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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.29")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.01")
ALLOWABLE DEFL.(TL) = $L/360$ (0.29")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.08")

CSI: TC=0.28/1.00 (D-E:1), BC=0.34/1.00 (F-G:4),
WB=0.23/1.00 (D-F:1), SSI=0.21/1.00 (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 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= 0.68 (F) (INPUT = 0.90)

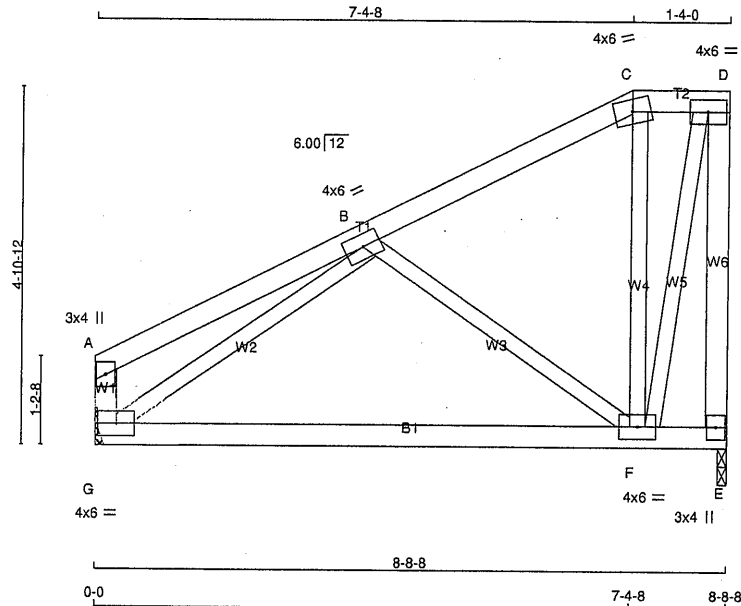
JSI METAL= 0.24 (D) (INPUT = 0.95)



Structural component only
DWG# T-2406427

JOB NAME 425913	TRUSS NAME T37	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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Scale = 1:30.1

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 - A	2x4	DRY	No.2
G - E	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	3.0	4.0		
B	TMWW-t	MT20	4.0	6.0		
C	TTW-m	MT20	4.0	6.0		
D	TMVW-t	MT20	4.0	6.0		
E	BMV1+p	MT20	3.0	4.0		
F	BMWWW-t	MT20	4.0	6.0		
G	BMVW1-t	MT20	4.0	6.0		

NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF.#2.

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
E	450 0	450 0	0 0	1-8	1-8
G	450 0	450 0	0 0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	319	203 / 0	0 / 0	0 / 0	0 / 0	0 / 0	117 / 0	0 / 0
G	319	203 / 0	0 / 0	0 / 0	0 / 0	0 / 0	117 / 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)

CHORDS		WEBS	
MEMB.	MAX. FACTORED	MEMB.	MAX. FACTORED
FR-TO	FORCE (LBS)	FR-TO	FORCE (LBS)
A-B	0 / 16	B-F	-300 / 0
B-C	-158 / 0	F-C	-113 / 0
C-D	-123 / 0	F-D	0 / 478
E-D	-518 / 0	G-B	-459 / 0
G-A	-120 / 0		
G-F	0 / 368		
F-E	0 / 0		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3 PSF
	DL = 6.0 PSF
BOT CH.	LL = 0.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.29")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.08")

CSI: TO=0.21/1.00 (D-E:1) , BC=0.27/1.00 (F-G:4) ,
WB=0.16/1.00 (B-G:1) , SSI=0.14/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

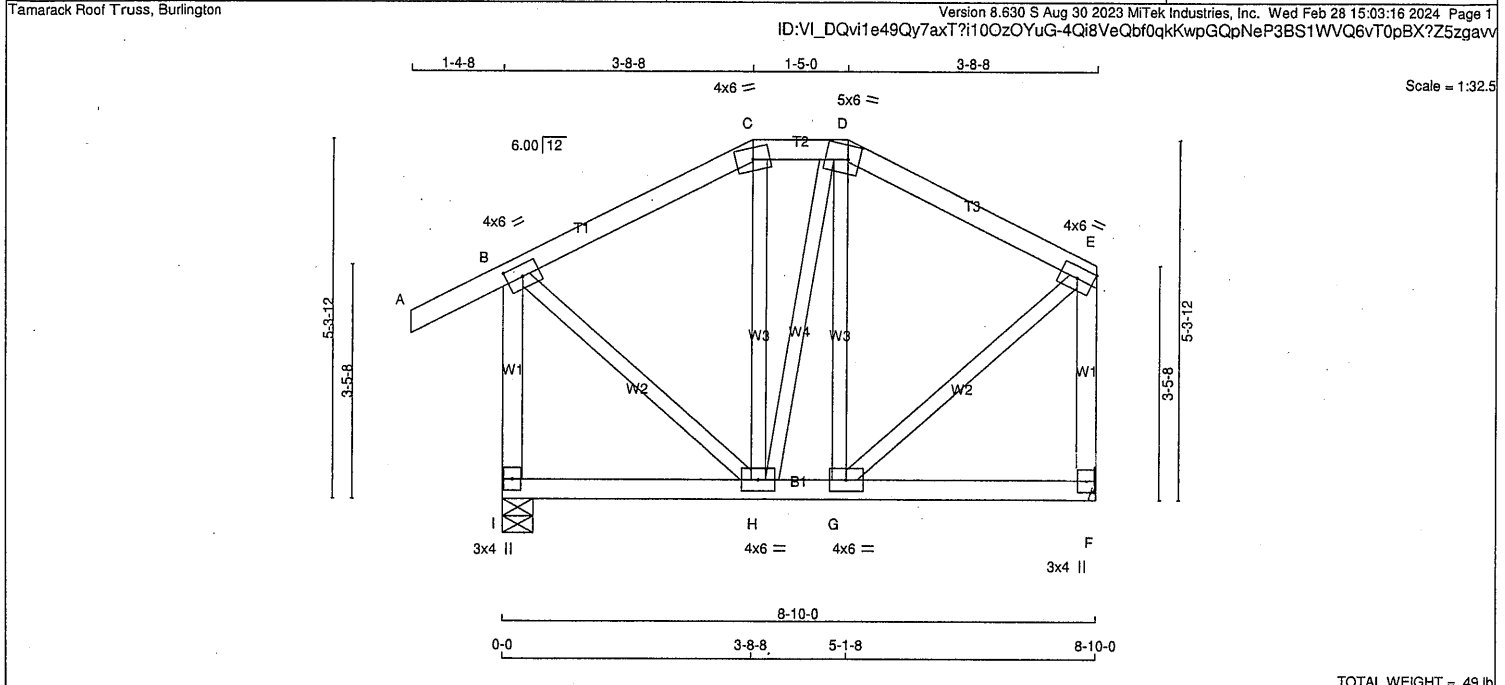
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.73 (F) (INPUT = 0.90)
JSI METAL= 0.15 (F) (INPUT = 0.95)



Structural component only
DWG# T-2406428

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T38	1	1	TRUSS DESC.		



LUMBER							DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER							DESIGN CRITERIA			
N. L. G. A. RULES																	
CHORDS SIZE LUMBER DESCR.																	
A - C 2x4 DRY No.2 SPF														SPECIFIED LOADS:			
C - D 2x4 DRY No.2 SPF														TOP CH. LL = 23.3 PSF			
D - E 2x4 DRY No.2 SPF														DL = 6.0 PSF			
I - B 2x4 DRY No.2 SPF														BOT CH. LL = 0.0 PSF			
F - E 2x4 DRY No.2 SPF														DL = 7.4 PSF			
I - F 2x4 DRY No.2 SPF														TOTAL LOAD = 36.7 PSF			
ALL WEBS 2x3 DRY No.2 SPF														SPACING = 24.0 IN./C			
EXCEPT																	
DRY: SEASONED LUMBER.														LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12			
														THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015			
PLATES (table is in inches)														THIS DESIGN COMPLIES WITH:			
JT TYPE PLATES W LEN Y X														- PART 9 OF BCBC 2018 , NBC-2019AE			
B TMVW-t MT20 4.0 6.0 2.00 3.00														- PART 9 OF OBC 2012 (2019 AMENDMENT)			
C TTW-m MT20 4.0 6.0														- CSA 086-14			
D TTW-m MT20 5.0 6.0 2.50 2.00														- TPIC 2014			
E TMVW-t MT20 4.0 6.0 Edge																	
F BMV1+p MT20 3.0 4.0																	
G BMWW-t MT20 4.0 6.0																	
H BMWWW-t MT20 4.0 6.0																	
I BMV1+p MT20 3.0 4.0																	
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.														(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD			
NOTES: (1)														ALLOWABLE DEFL.(LL)= L/360 (0.29")			
1) Lateral braces to be a minimum of 2X4 SPF #2.														CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")			
														ALLOWABLE DEFL.(TL)= L/360 (0.29")			
														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=0.06/1.00 (E-G: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			
														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 650 371 1747 788 1987 1873			
														PLATE PLACEMENT TOL. = 0.250 inches			
														PLATE ROTATION TOL. = 5.0 Deg.			
														JSI GRIP= 0.31 (H) (INPUT = 0.90)			
														JSI METAL= 0.08 (B) (INPUT = 0.95)			



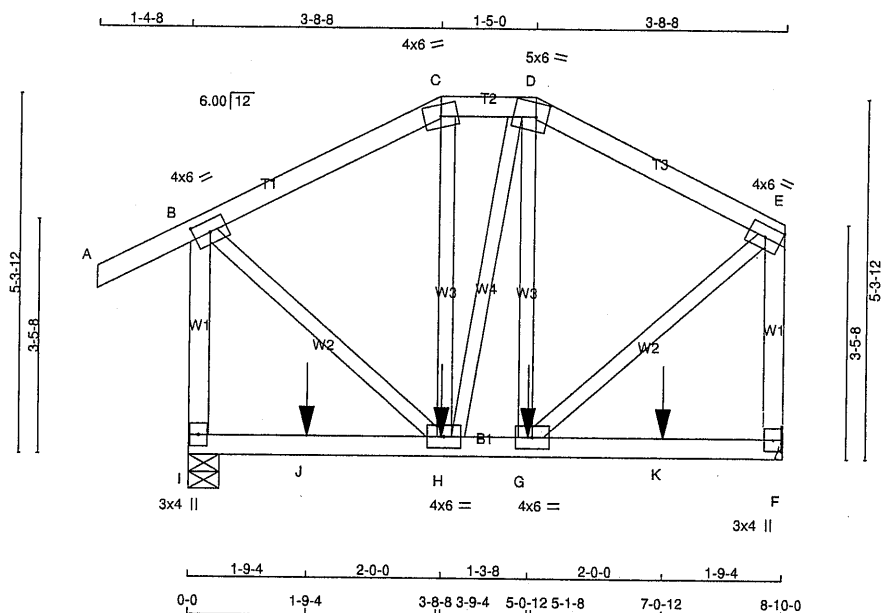
Structural component only
DWG# T-2406429

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T38Z	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - C 2x4 DRY No.2 SPF C - D 2x4 DRY No.2 SPF D - E 2x4 DRY No.2 SPF I - B 2x4 DRY No.2 SPF F - E 2x4 DRY No.2 SPF I - F 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.			DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 6.0 PSF BOT CH. LL = 0.0 PSF DL = 7.4 PSF TOTAL LOAD = 36.7 PSF SPACING = 24.0 IN./C LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF BCBC 2018 , NBC-2019AE - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 (55 % OF 27.2 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.29") CALCULATED VERT. DEFL.(LL) = L/999 (0.02") ALLOWABLE DEFL.(TL)= L/360 (0.29") CALCULATED VERT. DEFL.(TL) = L/999 (0.04") CSI: TC=0.22/1.00 (D-E-1) , BC=0.22/1.00 (H-I-1) , WB=0.13/1.00 (E-G-1) , SSI=0.12/1.00 (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 MT20 650 371 1747 788 1987 1873 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.62 (H) (INPUT = 0.90) JSI METAL= 0.15 (H) (INPUT = 0.95)			PLATES (table is in inches) JT TYPE PLATES W LEN Y X B TMVW-t MT20 4.0 6.0 2.00 3.00 C TTW-m MT20 4.0 6.0 D TTWW-m MT20 5.0 6.0 2.50 2.00 E TMVW-t MT20 4.0 6.0 F BMV1+p MT20 3.0 4.0 G BMWW-t MT20 4.0 6.0 H BMWWW-t MT20 4.0 6.0 I BMV1+p MT20 3.0 4.0 Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD. NOTES: (1) 1) Lateral braces to be a minimum of 2X4 SPF #2.			UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL I 645 439 / 0 0 / 0 0 / 0 206 / 0 0 / 0 F 561 372 / 0 0 / 0 0 / 0 189 / 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 = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS MAX. FACTORED FORCE VERT. LOAD LC1 MAX. MAX. MEMB. FORCE MAX. FACTORED (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO MEMB. FORCE MAX. FACTORED (LBS) CSI (LC) FR-TO FROM TO A-B 0 / 27 -84.9 -84.9 0.14 (1) 10.00 H-C -14 / 25 0.01 (4) B-C -453 / 0 -84.9 -84.9 0.22 (1) 6.25 H-D 0 / 0 0.00 (1) C-D -405 / 0 -84.9 -84.9 0.03 (1) 6.25 G-D -13 / 24 0.01 (4) D-E -453 / 0 -84.9 -84.9 0.22 (1) 6.25 B-H 0 / 525 0.13 (1) I-B -818 / 0 0.0 0.0 0.17 (1) 7.81 G-E 0 / 526 0.13 (1) F-E -696 / 0 0.0 0.0 0.14 (1) 7.81 I-J 0 / 0 -18.5 -18.5 0.22 (1) 10.00 J-H 0 / 0 -18.5 -18.5 0.22 (1) 10.00 H-G 0 / 405 -18.5 -18.5 0.21 (1) 10.00 G-K 0 / 0 -18.5 -18.5 0.22 (1) 10.00 K-F 0 / 0 -18.5 -18.5 0.22 (1) 10.00 SPECIFIED CONCENTRATED LOADS (LBS) JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE HEEL CONN. G 5-0-12 -121 -121 --- BACK VERT TOTAL --- C1 H 3-9-4 -121 -121 --- BACK VERT TOTAL --- C1 J 1-9-4 -116 -116 --- BACK VERT TOTAL --- C1 K 7-0-12 -116 -116 --- BACK VERT TOTAL --- C1 CONNECTION REQUIREMENTS 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.			TOTAL WEIGHT = 49 lb		
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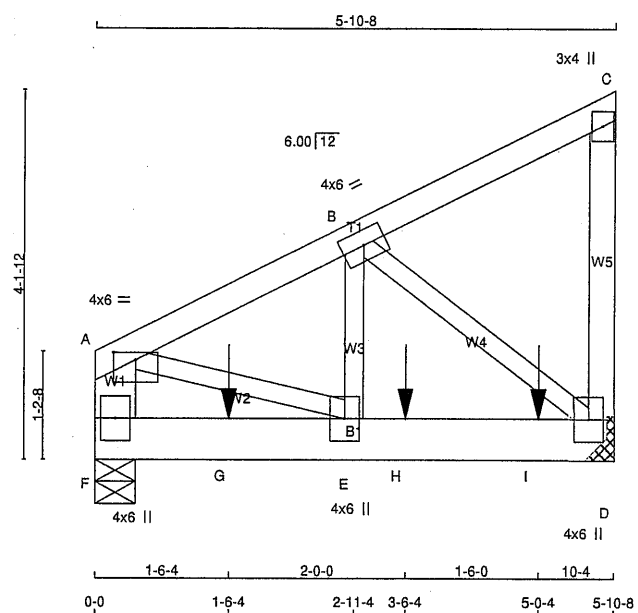
Structural component only
DWG# T-2406430

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T39	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:24.7

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 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 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	6.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
D	1146	0	1146	0	0	MECHANICAL
F	845	0	845	0	0	5-8 1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM.LIVE	DOWN			
D	811	527 / 0	0 / 0	0 / 0	0 / 0	284 / 0	0 / 0
F	596	400 / 0	0 / 0	0 / 0	0 / 0	196 / 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 MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD (PLF)		MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB. FORCE (LBS)	MAX. FACTORED CSI (LC)
	FR-TO	FROM TO	FROM TO	TO				
A-B	-923 / 0	-84.9	-84.9	0.06 (1)	6.25	E-B	0 / 769	0.10 (1)
B-C	-11 / 0	-84.9	-84.9	0.05 (1)	6.25	B-D	-1058 / 0	0.13 (1)
D-C	-100 / 0	0.0	0.0	0.01 (1)	7.81	A-E	0 / 867	0.11 (1)
F-A	-750 / 0	0.0	0.0	0.03 (1)	7.81			
F-G	0 / 0	-18.5	-18.5	0.08 (1)	10.00			
G-E	0 / 0	-18.5	-18.5	0.08 (1)	10.00			
E-H	0 / 835	-18.5	-18.5	0.18 (1)	10.00			
H-I	0 / 835	-18.5	-18.5	0.18 (1)	10.00			
I-D	0 / 835	-18.5	-18.5	0.18 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	1-6-4	-197	-197		BACK	VERT	TOTAL		C1
H	3-6-4	-473	-473		BACK	VERT	TOTAL		C1
I	5-0-4	-306	-306		BACK	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	PSF
LL	23.3	PSF
DL	6.0	PSF
BOT CH.	LL	PSF
LL	0.0	PSF
DL	7.4	PSF
TOTAL LOAD	36.7	PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.18/1.00 (D-E:1) , WB=0.13/1.00 (B-D:1) , SSI=0.25/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE	GRIP (DRY)	SHEAR (PS)	SECTION (PL)	SECTION (PL)
	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= 0.39 (D) (INPUT = 0.90)
JSI METAL= 0.19 (D) (INPUT = 0.95)

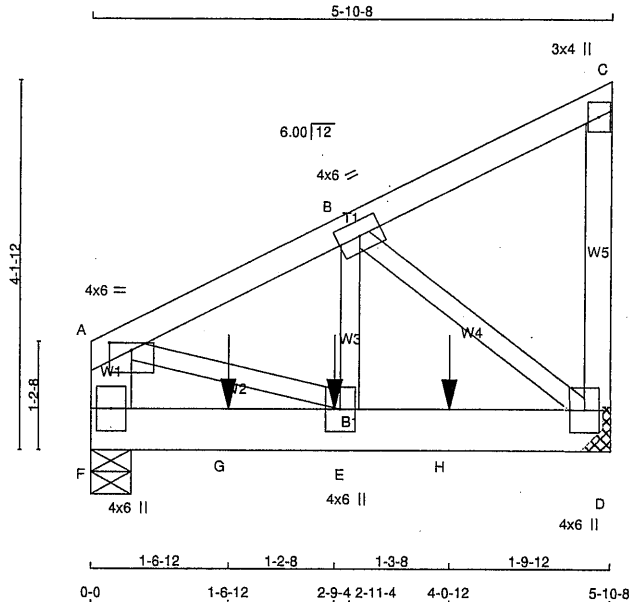


Structural component only
DWG# T-2406431

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T39Z	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
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	6	SIDE(19.4)
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
D	1060	0	1060	0	0	MECHANICAL		
F	1008	0	1008	0	0	5-8	1-8	

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
D	748	501 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0	
F	709	486 / 0	0 / 0	0 / 0	0 / 0	224 / 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 MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD (PLF)		MAX. CS1 (LC)		UNBRAC LENGTH		WEBS MAX. FACTORED FORCE (LBS)		MAX. CS1 (LC)	
	FR-TO		FROM	TO	FR-TO		FR-TO		FR-TO		FR-TO	
A-B	-1120 / 0		-84.9	-84.9	0.06 (1)		6.25		E-B	0 / 997	0.12 (1)	
B-C	-10 / 0		-84.9	-84.9	0.05 (1)		6.25		B-D	-1281 / 0	0.15 (1)	
D-C	-102 / 0		0.0	0.0	0.01 (1)		7.81		A-E	0 / 1050	0.13 (1)	
F-A	-888 / 0		0.0	0.0	0.03 (1)		7.81					
F-G	0 / 0		-18.5	-18.5	0.06 (1)		10.00					
G-E	0 / 0		-18.5	-18.5	0.06 (1)		10.00					
E-H	0 / 1011		-18.5	-18.5	0.17 (1)		10.00					
H-D	0 / 1011		-18.5	-18.5	0.17 (1)		10.00					

SPECIFIED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	2-9-4	-546	-546	---	FRONT	VERT	TOTAL	---	C1
G	1-6-12	-171	-171	---	BACK	VERT	TOTAL	---	C1
H	4-0-12	-309	-309	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 6.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 36.7	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 , NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.17/1.00 (D-E:1) , WB=0.15/1.00 (B-D:1) , SSI=0.11/1.00 (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)
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.47 (D) (INPUT = 0.90)

JSI METAL= 0.23 (D) (INPUT = 0.95)



Structural component only
DWG# T-2406432

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T39Z	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWW-t	MT20	4.0	6.0		
C	TMV+p	MT20	3.0	4.0		
D	BMWW1+p	MT20	4.0	6.0		
E	BMWW+t	MT20	4.0	6.0		
F	BMV1+p	MT20	4.0	6.0		

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.



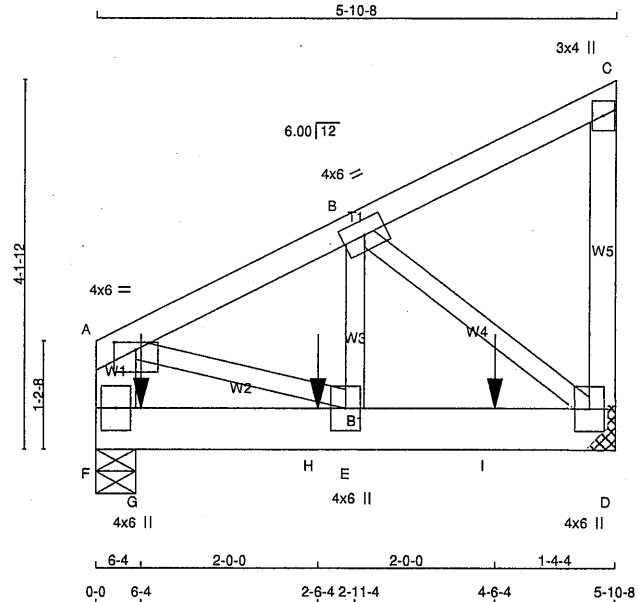
Structural component only
DWG# T-2406432

JOB NAME 425913	TRUSS NAME T39Z2	QUANTITY 2	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

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ID:sd0FDfbi38oVqvTaiRkhtSzPAoD-RNV1YMUKTYS1QhhDCMzp66uLCXBcn9llzTEmEJzgavc



Scale = 1:24.7

TOTAL WEIGHT = 4 X 29 = 118 lb

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	DRY	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	3	SIDE(9.0)	
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS				
F - D	2	12	SIDE(122.0)	
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 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-l	MT20	4.0	6.0	

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER											
BEARINGS											
	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG							
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX				
D	945	0	945	0	0	MECHANICAL					
F	1160	0	1160	0	0	5-8	1-8				
A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 1-8.											
UNFACTORED REACTIONS											
1ST LCASE	MAX/MIN	COMPONENT REACTIONS									
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL				
D	666	452 / 0	0 / 0	0 / 0	0 / 0	214 / 0	0 / 0				
F	817	556 / 0	0 / 0	0 / 0	0 / 0	261 / 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											
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1	MAX CS1 (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CS1 (LC)			
FR-TO		FROM	TO			FR-TO					
A-B	-871 / 0	-84.9	-84.9	0.06 (1)	6.25	E-B	0 / 709	0.09 (1)			
B-C	-11 / 0	-84.9	-84.9	0.05 (1)	6.25	B-D	-999 / 0	0.12 (1)			
D-C	-100 / 0	0.0	0.0	0.01 (1)	7.81	A-E	0 / 818	0.10 (1)			
F-A	-713 / 0	0.0	0.0	0.03 (1)	7.81						
F-G	0 / 0	-18.5	-18.5	0.08 (1)	10.00						
G-H	0 / 0	-18.5	-18.5	0.08 (1)	10.00						
H-E	0 / 0	-18.5	-18.5	0.08 (1)	10.00						
E-I	0 / 789	-18.5	-18.5	0.16 (1)	10.00						
I-D	0 / 789	-18.5	-18.5	0.16 (1)	10.00						
SPECIFIED CONCENTRATED LOADS (LBS)											
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.		
G	6-4	-353	-353		BACK	VERT	TOTAL		C1		
H	2-6-4	-349	-349		BACK	VERT	TOTAL		C1		
I	4-6-4	-349	-349		FRONT	VERT	TOTAL		C1		
CONNECTION REQUIREMENTS											
1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.											

DESIGN CRITERIA	
SPECIFIED LOADS:	
TOP CH.	LL = 23.3 PSF
DL	= 6.0 PSF
BOT CH.	LL = 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 36.7 PSF
SPACING = 24.0 IN./C/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 , NBC-2019AE	
- PART 9 OF OBC 2012 (2019 AMENDMENT)	
- CSA 086-14	
- TPIC 2014	
(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.06/1.00 (A-B:1) , BC=0.16/1.00 (D-E:1) , WB=0.12/1.00 (B-D:1) , SSI=0.20/1.00 (E-F:1)	
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS= 1.00	
COMPANION LIVE LOAD FACTOR = 1.00	
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
MT20	650 371 1747 788 1987 1873
PLATE PLACEMENT TOL. = 0.250 inches	
PLATE ROTATION TOL. = 5.0 Deg.	
JSI GRIP= 0.37 (D) (INPUT = 0.90)	
JSI METAL= 0.18 (D) (INPUT = 0.95)	

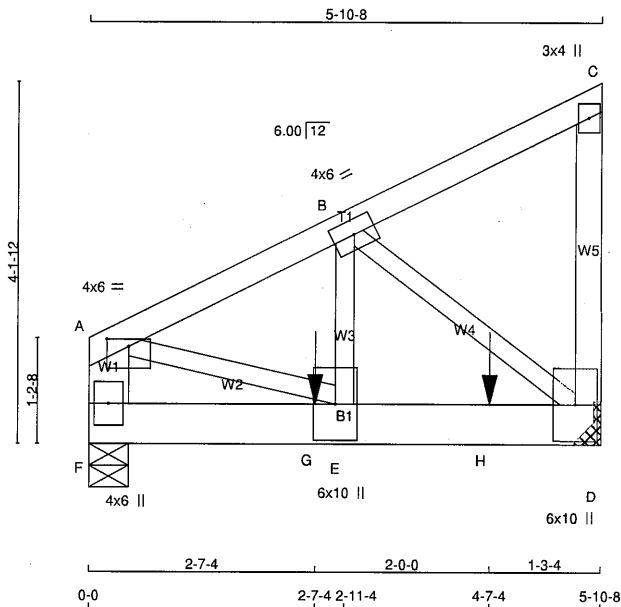


Structural component only
DWG# T-2406433

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T39Z4	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Wed Feb 28 16:19:28 2024 Page 1
ID:sd0FDfbi38oVqvTaiRkhtSzPAoD-D?zY3zISxlr0qXkzF0PojCYpiWtaLfH_8V2x15zgZoT



Scale = 1:25.3

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 <u> 2 </u> TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS: CHORDS #ROWS SURFACE LOAD(PLF) SPACING (IN) 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(183.1) WEBS : (0.122"x3") SPIRAL NAILS B- E 1 5 SIDE(163.8) 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 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					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><td></td><td>FACTORED</td><td>MAXIMUM FACTORED</td><td>INPUT</td><td>REQRD</td></tr><tr><td></td><td>GROSS REACTION</td><td>GROSS REACTION</td><td>BRG</td><td>BRG</td></tr><tr><td>JT</td><td>VERT</td><td>DOWN</td><td>HORZ</td><td>UPLIFT</td></tr><tr><td>D</td><td>1405</td><td>0</td><td>1405</td><td>0</td></tr><tr><td>F</td><td>1185</td><td>0</td><td>1185</td><td>0</td></tr></table> A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 1-8. UNFACTORED REACTIONS <table><tr><td></td><td>1ST LCASE</td><td colspan="5">MAX./MIN. COMPONENT REACTIONS</td></tr><tr><td>JT</td><td>COMBINED</td><td>SNOW</td><td>LIVE</td><td>PERM.LIVE</td><td>WIND</td><td>DEAD</td><td>SOIL</td></tr><tr><td>D</td><td>992</td><td>660 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>332 / 0</td><td>0 / 0</td></tr><tr><td>F</td><td>836</td><td>562 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>274 / 0</td><td>0 / 0</td></tr></table> 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) <table><tr><td colspan="2">CHORDS</td><td colspan="2">FACTORED</td><td colspan="2">WEBS</td></tr><tr><td>MEMB.</td><td>MAX. FACTORED FORCE (LBS)</td><td>VERT. LOAD (PLF)</td><td>LC1 MAX CSI (LC)</td><td>MAX. UNBRACED LENGTH</td><td>MEMB. MAX. FACTORED FORCE (LBS)</td><td>MAX. CSI (LC)</td></tr><tr><td>FR-TO</td><td></td><td>FROM</td><td>TO</td><td></td><td>FR-TO</td><td></td></tr><tr><td>A-B</td><td>-1384 / 0</td><td>-84.9</td><td>-84.9</td><td>0.05 (1)</td><td>6.25</td><td>E-B 0 / 1301</td></tr><tr><td>B-C</td><td>-10 / 0</td><td>-84.9</td><td>-84.9</td><td>0.05 (1)</td><td>10.00</td><td>B-D -1580 / 0</td></tr><tr><td>D-C</td><td>-103 / 0</td><td>0.0</td><td>0.0</td><td>0.01 (1)</td><td>7.81</td><td>A-E 0 / 1294</td></tr><tr><td>F-A</td><td>-1073 / 0</td><td>0.0</td><td>0.0</td><td>0.04 (1)</td><td>7.81</td><td></td></tr><tr><td>F-G</td><td>0 / 0</td><td>-18.5</td><td>-18.5</td><td>0.08 (1)</td><td>10.00</td><td></td></tr><tr><td>G-E</td><td>0 / 0</td><td>-18.5</td><td>-18.5</td><td>0.08 (1)</td><td>10.00</td><td></td></tr><tr><td>E-H</td><td>0 / 1247</td><td>-18.5</td><td>-18.5</td><td>0.23 (1)</td><td>10.00</td><td></td></tr><tr><td>H-D</td><td>0 / 1247</td><td>-18.5</td><td>-18.5</td><td>0.23 (1)</td><td>10.00</td><td></td></tr></table> SPECIFIED CONCENTRATED LOADS (LBS) <table><tr><td>JT</td><td>LOC.</td><td>LC1</td><td>MAX-</td><td>MAX+</td><td>FACE</td><td>DIR.</td><td>TYPE</td><td>HEEL</td><td>CONN.</td></tr><tr><td>G</td><td>2-7-4</td><td>-935</td><td>-935</td><td>---</td><td>FRONT</td><td>VERT</td><td>TOTAL</td><td>---</td><td>C1</td></tr><tr><td>H</td><td>4-7-4</td><td>-462</td><td>-462</td><td>---</td><td>FRONT</td><td>VERT</td><td>TOTAL</td><td>---</td><td>C1</td></tr></table> CONNECTION REQUIREMENTS 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.						FACTORED	MAXIMUM FACTORED	INPUT	REQRD		GROSS REACTION	GROSS REACTION	BRG	BRG	JT	VERT	DOWN	HORZ	UPLIFT	D	1405	0	1405	0	F	1185	0	1185	0		1ST LCASE	MAX./MIN. COMPONENT REACTIONS					JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	D	992	660 / 0	0 / 0	0 / 0	0 / 0	332 / 0	0 / 0	F	836	562 / 0	0 / 0	0 / 0	0 / 0	274 / 0	0 / 0	CHORDS		FACTORED		WEBS		MEMB.	MAX. FACTORED FORCE (LBS)	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	-1384 / 0	-84.9	-84.9	0.05 (1)	6.25	E-B 0 / 1301	B-C	-10 / 0	-84.9	-84.9	0.05 (1)	10.00	B-D -1580 / 0	D-C	-103 / 0	0.0	0.0	0.01 (1)	7.81	A-E 0 / 1294	F-A	-1073 / 0	0.0	0.0	0.04 (1)	7.81		F-G	0 / 0	-18.5	-18.5	0.08 (1)	10.00		G-E	0 / 0	-18.5	-18.5	0.08 (1)	10.00		E-H	0 / 1247	-18.5	-18.5	0.23 (1)	10.00		H-D	0 / 1247	-18.5	-18.5	0.23 (1)	10.00		JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.	G	2-7-4	-935	-935	---	FRONT	VERT	TOTAL	---	C1	H	4-7-4	-462	-462	---	FRONT	VERT	TOTAL	---	C1	DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 6.0 PSF BOT CH. LL = 0.0 PSF DL = 7.4 PSF TOTAL LOAD = 36.7 PSF SPACING = 24.0 IN.C/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, NBC-2019AE - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.05/1.00 (A-B:1) , BC=0.23/1.00 (D-E:1) , WB=0.19/1.00 (B-D:1) , SSI=0.42/1.00 (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 <table><tr><td>PLATE</td><td>GRIP(DRY)</td><td>SHEAR (PSI)</td><td>SECTION (PL)</td></tr><tr><td>MT20</td><td>650</td><td>371</td><td>1747</td></tr></table> MAX MIN MAX MIN MAX MIN 1747 788 1987 1873 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.52 (B) (INPUT = 0.90) JSI METAL= 0.19 (E) (INPUT = 0.95)					PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PL)	MT20	650	371	1747
	FACTORED	MAXIMUM FACTORED	INPUT	REQRD																																																																																																																																																																																				
	GROSS REACTION	GROSS REACTION	BRG	BRG																																																																																																																																																																																				
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A-B	-1384 / 0	-84.9	-84.9	0.05 (1)	6.25	E-B 0 / 1301																																																																																																																																																																																		
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F-A	-1073 / 0	0.0	0.0	0.04 (1)	7.81																																																																																																																																																																																			
F-G	0 / 0	-18.5	-18.5	0.08 (1)	10.00																																																																																																																																																																																			
G-E	0 / 0	-18.5	-18.5	0.08 (1)	10.00																																																																																																																																																																																			
E-H	0 / 1247	-18.5	-18.5	0.23 (1)	10.00																																																																																																																																																																																			
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JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.																																																																																																																																																																															
G	2-7-4	-935	-935	---	FRONT	VERT	TOTAL	---	C1																																																																																																																																																																															
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PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PL)																																																																																																																																																																																					
MT20	650	371	1747																																																																																																																																																																																					

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Structural component only
DWG# T-2406464

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T39Z4	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:sd0FDfbi38oVqvTaiRkhtSzPAoD-D?zY3zlSxlr0qXKzF0PojCYpiWtaLfH_8V2x15zqZoT

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWW-t	MT20	4.0	6.0		
C	TMV+p	MT20	3.0	4.0		
D	BMVW1+p	MT20	6.0	10.0		
E	BMWW+t	MT20	6.0	10.0		
F	BMV1+p	MT20	4.0	6.0		

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.



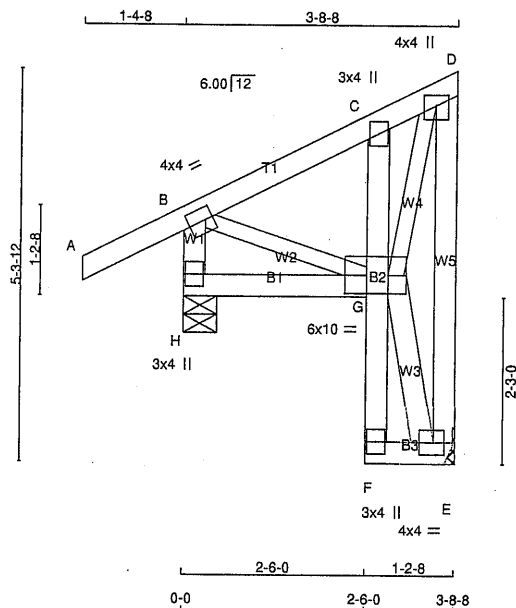
Structural component only
DWG# T-2406464

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T40	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:29.8

TOTAL WEIGHT = 2 X 28 = 57 lb

LUMBER	CHORDS	SIZE	LUMBER	DESCR.
N. L. G. A. RULES				
A - D	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF
H - B	2x4	DRY	No.2	SPF
H - G	2x4	DRY	No.2	SPF
F - C	2x4	DRY	No.2	SPF
F - E	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
G - E	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	TMVW+p	MT20	4.0	4.0	1.75	2.00
E	BMVW1-t	MT20	4.0	4.0	2.00	1.75
F	BMV+p	MT20	3.0	4.0		
G	BVMWWW-l	MT20	6.0	10.0	3.00	3.50
H	BMV1+p	MT20	3.0	4.0		

NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
E	192	0	192	0
H	314	0	314	0

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
E	136	86/0	0/0	0/0	0/0	50/0
H	220	153/0	0/0	0/0	0/0	67/0

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: (5)

MEMB.	CHORDS	FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1	MAX. LC2	MAX. UNBRACED LENGTH	MEMB.	WEBS	FACTORED FORCE (LBS)	MAX. LC1
FR-TO			FROM TO				FR-TO			
A-B	0/27	-84.9	-84.9	0.14 (5)	10.00		B-G	0/93	0.02 (1)	
B-C	-91/0	-84.9	-84.9	0.07 (1)	6.25		G-D	0/216	0.05 (1)	
C-D	-104/0	-84.9	-84.9	0.06 (1)	6.25		G-E	-10/0	0.00 (1)	
E-D	-173/0	0.0	0.0	0.08 (1)	7.81					
H-B	-289/0	0.0	0.0	0.03 (1)	7.81					
H-G	0/0	-18.5	-18.5	0.04 (4)	10.00					
F-G	0/11	0.0	0.0	0.02 (1)	10.00					
G-C	-207/0	0.0	0.0	0.01 (1)	7.81					
F-E	0/4	-18.5	-18.5	0.01 (4)	10.00					

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 6.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 36.7	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 CBC 2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.14/1.00 (A-B:5), BC=0.04/1.00 (G-H:4),
WB=0.05/1.00 (D-G:1), SSI=0.10/1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

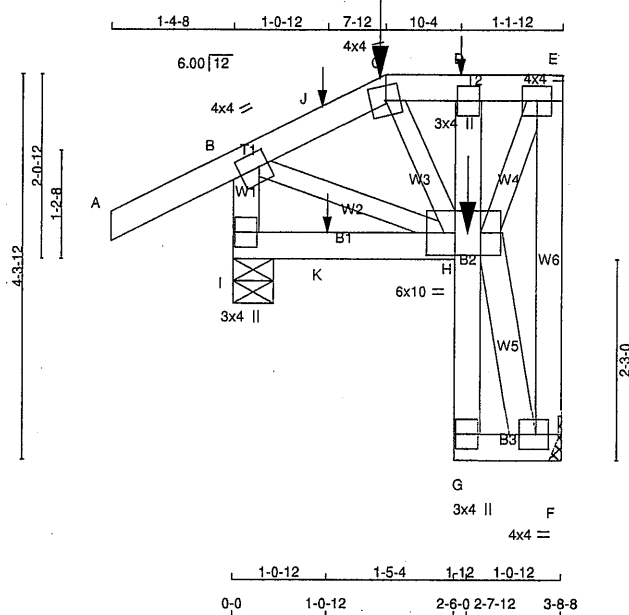
JSI GRIP= 0.30 (D) (INPUT = 0.90)
JSI METAL= 0.07 (G) (INPUT = 0.95)



Structural component only
DWG# T-2406434

JOB NAME 425913	TRUSS NAME T41	QUANTITY 2	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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ID:sd0FDfbi38oVqvTaiRkhtSzPAoD-Nmdnz2W_?9ikf_rcKn?HCXzfvKuXF4Z2QnjtJBzgavo



TOTAL WEIGHT = 2 X 27 = 54 lb

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

DRY: SEASONED LUMBER.

<u>PLATES (table is in inches)</u>						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	4.0	2.00	1.25
C	TTW-m	MT20	4.0	4.0		
D	TMV-p	MT20	3.0	4.0		
E	TMVW-t	MT20	4.0	4.0		
F	BMVW1-t	MT20	4.0	4.0	2.00	1.75
G	BMV-p	MT20	3.0	4.0		
H	BMVWWWW-t	MT20	6.0	10.0	3.00	2.50
I	BMV1-p	MT20	3.0	4.0		

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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	183	0	183	0
I	354	0	354	0

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	131	80/-13	0/0	0/0	0/0	50/0	0/0
I	248	175/0	0/0	0/0	0/0	73/0	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: (9)

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD LC1	MAX	MAX.	MEMB.	MAX. FACTORED	MAX
MEMB.	FORCE (LBS)	(PLF)	CSI (LC)	UNBRAC	LENGTH	FR-TO	FORCE (LBS)	CSI (LC)
FR-TO		FROM TO						
A-B	0/27	-84.9	-84.9	0.17 (5)	10.00	C-H	-41/32	0.01 (5)
B-J	-133/0	-84.9	-84.9	0.17 (5)	6.25	B-H	-9/104	0.03 (1)
J-C	-133/0	-84.9	-84.9	0.17 (5)	6.25	H-F	-6/0	0.00 (1)
C-D	-79/0	-84.9	-84.9	0.01 (6)	6.25	H-E	0/146	0.04 (1)
D-E	-75/0	-84.9	-84.9	0.02 (1)	6.25			
F-E	-168/0	0.0	0.0	0.05 (1)	7.81			
I-B	-329/0	0.0	0.0	0.04 (1)	7.81			
I-K	0/0	-18.5	-18.5	0.04 (4)	10.00			
K-H	0/0	-18.5	-18.5	0.04 (4)	10.00			
G-H	0/11	0.0	0.0	0.01 (1)	10.00			
H-D	-90/3	0.0	0.0	0.01 (1)	7.81			
G-F	0/3	-18.5	-18.5	0.01 (4)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	1-8-8	-4	-4		FRONT	VERT	DEAD		C1
C	1-8-8	-15	-15		FRONT	VERT	SNOW		C1
D	2-6-12	1	1	71	BACK	VERT	TOTAL		C1
H	2-7-12	-3	-3		BACK	VERT	TOTAL		C1
J	1-0-12	1	1	67	BACK	VERT	TOTAL		C1
K	1-0-12	1	1		BACK	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

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	=	23.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	36.7	PSF

SPACING = 24.0 IN./C

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

*** NON STANDARD GIRDER ***

ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.17/1.00 (A-B:5), BC=0.04/1.00 (H-I:4), WB=0.04/1.00 (E-H:1), SI=0.12/1.00 (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	MAX MIN
MT20	650 371	1747 788	1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

CONTINUED ON PAGE 2



Structural component only
DWG# T-2406435

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T41	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:sd0FDfbi38oVqvTaiRkhtSzPAoD-Nmdnz2W ?9ikf rcKn?HCXzfvKuXF4Z2QnjtJBzgavo

JSI GRIP= 0.19 (E) (INPUT = 0.90)

JSI METAL= 0.08 (B) (INPUT = 0.95)

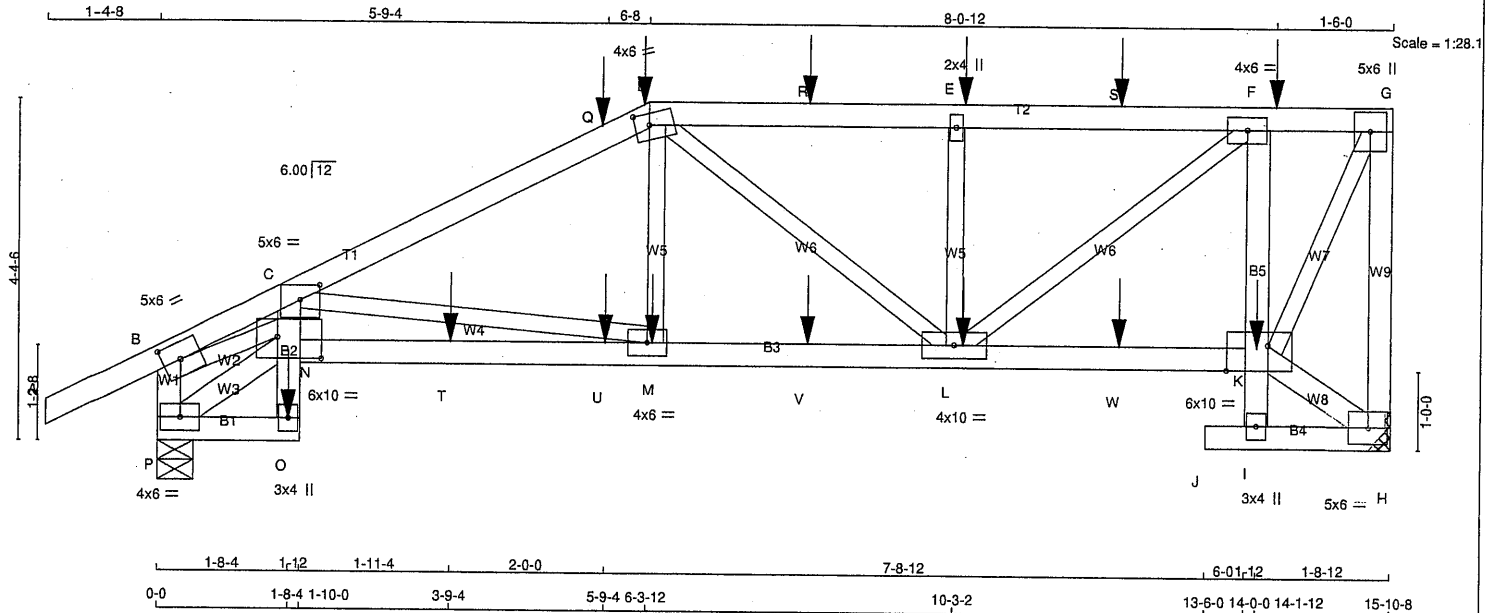


Structural component only
DWG# T-2406435

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T45S	2	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-D 1	12	SIDE(61.0)
D-G 1	12	SIDE(61.0)
G-H 1	12	TOP
P-B 1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
P-O 1	12	SIDE(61.0)
O-C 1	12	SIDE(61.0)
N-K 1	12	SIDE(61.0)
F-I 1	12	SIDE(4.8)
J-H 1	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
M-D 1	6	SIDE(43.5)
E-L 1	6	SIDE(13.9)
2x3 1	6	
2x4 1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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
H	2259	0	2259	0
P	2503	0	2503	0

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE	PERM.LIVE
H	1602	1028 / 0	0 / 0	574 / 0
P	1770	1162 / 0	0 / 0	608 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.17 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORZ. LOAD (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)
FR-TO					FR-TO		
A-B	0 / 27	-84.9	-84.9	0.07 (1)	10.00	C-M	-1441 / 0
B-C	-5112 / 0	-84.9	-84.9	0.15 (1)	4.17	M-D	0 / 1207
C-Q	-4007 / 0	-84.9	-84.9	0.29 (1)	4.48	D-L	-704 / 0
Q-D	-4007 / 0	-84.9	-84.9	0.29 (1)	4.48	L-E	-389 / 0
D-R	-3075 / 0	-84.9	-84.9	0.13 (1)	5.16	E-F	0 / 2339
R-E	-3075 / 0	-84.9	-84.9	0.13 (1)	5.16	F-G	-411 / 0
E-S	-3075 / 0	-84.9	-84.9	0.13 (1)	5.16	G-H	-83 / 0
S-F	-3075 / 0	-84.9	-84.9	0.13 (1)	5.16	H-I	0 / 2482
F-G	-1217 / 0	-84.9	-84.9	0.05 (1)	6.25	I-J	0 / 4546
G-H	-2202 / 0	0.0	0.0	0.34 (1)	7.51	J-K	
H-I	-2279 / 0	0.0	0.0	0.13 (1)	7.42	K-L	

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORZ. LOAD (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)
FR-TO					FR-TO		
P-O	0 / 353	-18.5	-18.5	0.04 (1)	10.00		
O-N	0 / 275	0.0	0.0	0.29 (1)	10.00		
N-C	0 / 519	0.0	0.0	0.31 (1)	10.00		
N-T	0 / 5014	-18.5	-18.5	0.70 (1)	10.00		
T-U	0 / 5014	-18.5	-18.5	0.70 (1)	10.00		
U-M	0 / 5014	-18.5	-18.5	0.70 (1)	10.00		
M-V	0 / 3631	-18.5	-18.5	0.54 (1)	10.00		
V-L	0 / 3631	-18.5	-18.5	0.54 (1)	10.00		
L-W	0 / 1241	-18.5	-18.5	0.30 (1)	10.00		
W-K	0 / 1241	-18.5	-18.5	0.30 (1)	10.00		
I-K	0 / 31	0.0	0.0	0.06 (1)	10.00		
K-F	-1767 / 0	0.0	0.0	0.09 (1)	7.81		
J-I	0 / 0	-18.5	-18.5	0.00 (4)	10.00		
I-H	0 / 71	-18.5	-18.5	0.01 (4)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	6-3-12	-90	-90	---	FRONT	VERT	DEAD	---	C1
D	6-3-12	-9	-9	---	BACK	VERT	TOTAL	---	C1
D	6-3-12	-348	-348	---	FRONT	VERT	SNOW	---	C1
E	10-4-8	-6	-6	---	BACK	VERT	TOTAL	---	C1
F	14-4-8	-37	-37	---	BACK	VERT	TOTAL	---	C1
K	14-1-12	-180	-180	---	BACK	VERT	TOTAL	---	C1
L	10-4-8	-205	-205	---	BACK	VERT	TOTAL	---	C1
M	6-4-8	-205	-205	---	BACK	VERT	TOTAL	---	C1
O	1-8-4	-185	-185	---	BACK	VERT	TOTAL	---	C1

DESIGN CRITERIA

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

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD	=	36.7	PSF	

SPACING = 24.0 IN. C/C

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

*** NON STANDARD GIRDER ***

ADD'L 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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.53")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (0.53")
CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

CSI: TC=0.34/1.00 (G-H:I), BC=0.70/1.00 (M-N:I),
WB=0.56/1.00 (B-N:I), SS=0.21/1.00 (M-N:I)

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

COMPANION LIVE LOAD FACTOR = 1.00

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.

CONTINUED ON PAGE 2



Structural component only
DWG# T-2406436

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T45S	2	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:sd0FDfbi38oVgvTaiRkhtSzPAoD-J9IXOIjXFXmySvI??RC2IH3yn8QljSrLu5C N4zgavm

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	6.0	2.50	2.75
C	TMVW-p	MT20	5.0	6.0	2.25	3.00
D	TTWW-m	MT20	4.0	6.0	1.75	2.25
E	TMW+w	MT20	2.0	4.0		
F	TMVW-t	MT20	4.0	6.0		
G	TMVW+p	MT20	5.0	6.0		
H	BMVW1-t	MT20	5.0	6.0		
I	BMV+p	MT20	3.0	4.0		
K	BVMWW-I	MT20	6.0	10.0	Edge	6.25
L	BMVWW-t	MT20	4.0	10.0		
M	BMWW-t	MT20	4.0	6.0		
N	BVMWW-I	MT20	6.0	10.0	3.25	6.75
O	BMV+p	MT20	3.0	4.0		
P	BMVW1-t	MT20	4.0	6.0		

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

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
Q	5-9-4	-17	-17	---	BACK	VERT	TOTAL	---	C1
R	8-4-8	-6	-6	---	BACK	VERT	TOTAL	---	C1
S	12-4-8	-6	-6	---	BACK	VERT	TOTAL	---	C1
T	3-9-4	-205	-205	---	BACK	VERT	TOTAL	---	C1
U	5-9-4	-205	-205	---	BACK	VERT	TOTAL	---	C1
V	8-4-8	-205	-205	---	BACK	VERT	TOTAL	---	C1
W	12-4-8	-205	-205	---	BACK	VERT	TOTAL	---	C1

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

JSI GRIP= 0.77 (B) (INPUT = 0.90)
JSI METAL= 0.59 (B) (INPUT = 0.95)

A circular professional seal for a Licensed Professional Engineer in the Province of Ontario. The seal contains the text "LICENSED PROFESSIONAL ENGINEER" around the top inner edge and "PROVINCE OF ONTARIO" around the bottom inner edge. In the center, it displays the date "02-28-24", the name "H. J. G. ALVES", and the license number "100009024". A stylized signature is written across the bottom half of the seal.

Structural component only
DWG# T-2406436

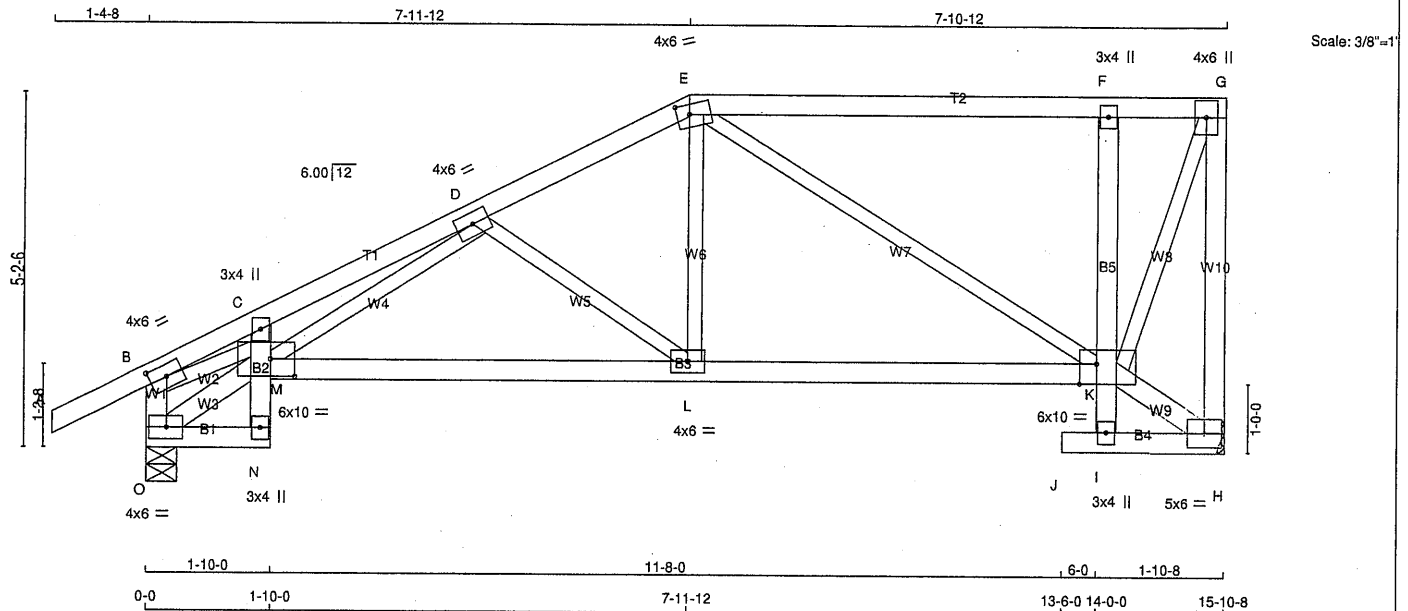


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T46S	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:VI_DQvi1e49Qy7axT?i10OzOYuG-oLJwb3YtI44JWSaB?wZ_pAb61Ys6SJIV6lyXvWzgav



LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				DESIGN CRITERIA			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.	BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD	SPECIFIED LOADS:	
A - E	2x4	DRY	No.2	SPF	FACTORED	GROSS REACTION	GROSS REACTION	BRG	BRG	TOP CH. LL = 23.3 PSF	
E - G	2x4	DRY	No.2	SPF	JT	VERT	DOWN	UP	IN-SX	DL = 6.0 PSF	
H - G	2x4	DRY	No.2	SPF	H	826	0	826	0	BOT CH. LL = 0.0 PSF	
O - B	2x4	DRY	No.2	SPF	O	949	0	949	0	DL = 7.4 PSF	
O - N	2x4	DRY	No.2	SPF						TOTAL LOAD = 36.7 PSF	
N - C	2x4	DRY	No.2	SPF							
M - K	2x4	DRY	No.2	SPF							
I - F	2x4	DRY	No.2	SPF							
J - H	2x4	DRY	No.2	SPF							
ALL WEBS	2x3	DRY	No.2	SPF							
EXCEPT											
O - M	2x4	DRY	No.2	SPF							
K - H	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	6.0	2.00 3.00
C	TMV+p	MT20	3.0	4.0	
D	TMVW-t	MT20	4.0	6.0	
E	TTVW-m	MT20	4.0	6.0	1.75 2.25
F	TMV+p	MT20	3.0	4.0	
G	TMVW+p	MT20	4.0	6.0	
H	BMVW1-t	MT20	5.0	6.0	
I	BMV+p	MT20	3.0	4.0	
K	BVMVWV-1	MT20	6.0	10.0	Edge 3.00
L	BMVW-t	MT20	4.0	6.0	
M	BVMVWV-1	MT20	6.0	10.0	3.00 4.25
N	BMV+p	MT20	3.0	4.0	
O	BMVW1-t	MT20	4.0	6.0	

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

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

UNFACTORED REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	587	367 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0
O	672	440 / 0	0 / 0	0 / 0	0 / 0	232 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.99 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING				TOTAL LOAD CASES: (4)			
CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 27	-84.9 -84.9	0.12 (1)	L-E	0 / 391	0.09 (1)	
B-C	-1547 / 0	-84.9 -84.9	0.15 (1)	E-K	-525 / 0	0.52 (1)	
C-D	-1638 / 0	-84.9 -84.9	0.18 (1)	O-M	-122 / 0	0.01 (1)	
D-E	-954 / 0	-84.9 -84.9	0.16 (1)	B-M	0 / 1351	0.30 (1)	
E-F	-405 / 0	-84.9 -84.9	0.44 (1)	D-L	-432 / 0	0.12 (1)	
F-G	-398 / 0	-84.9 -84.9	0.42 (1)	M-D	0 / 364	0.08 (1)	
H-G	-794 / 0	0.0 0.0	0.37 (1)	K-H	-30 / 0	0.00 (1)	
O-B	-871 / 0	0.0 0.0	0.09 (1)	K-G	0 / 984	0.22 (1)	
O-N	0 / 105	-18.5 -18.5	0.03 (1)				
N-M	0 / 17	0.0 0.0	0.15 (1)				
M-C	-123 / 0	0.0 0.0	0.14 (1)				
M-L	0 / 1132	-18.5 -18.5	0.31 (4)				
L-K	0 / 849	-18.5 -18.5	0.28 (4)				
I-K	0 / 31	0.0 0.0	0.04 (1)				
K-F	-564 / 0	0.0 0.0	0.07 (1)				
J-I	0 / 0	-18.5 -18.5	0.01 (4)				
I-H	0 / 26	-18.5 -18.5	0.02 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.53")

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")

ALLOWABLE DEFL.(TL)= L/360 (0.53")

CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.44/1.00 (E-F:1) , BC=0.31/1.00 (L-M:4) , WB=0.52/1.00 (E-K:1) , SSI=0.24/1.00 (E-F:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.73 (M) (INPUT = 0.90)

JSI METAL= 0.37 (B) (INPUT = 0.95)

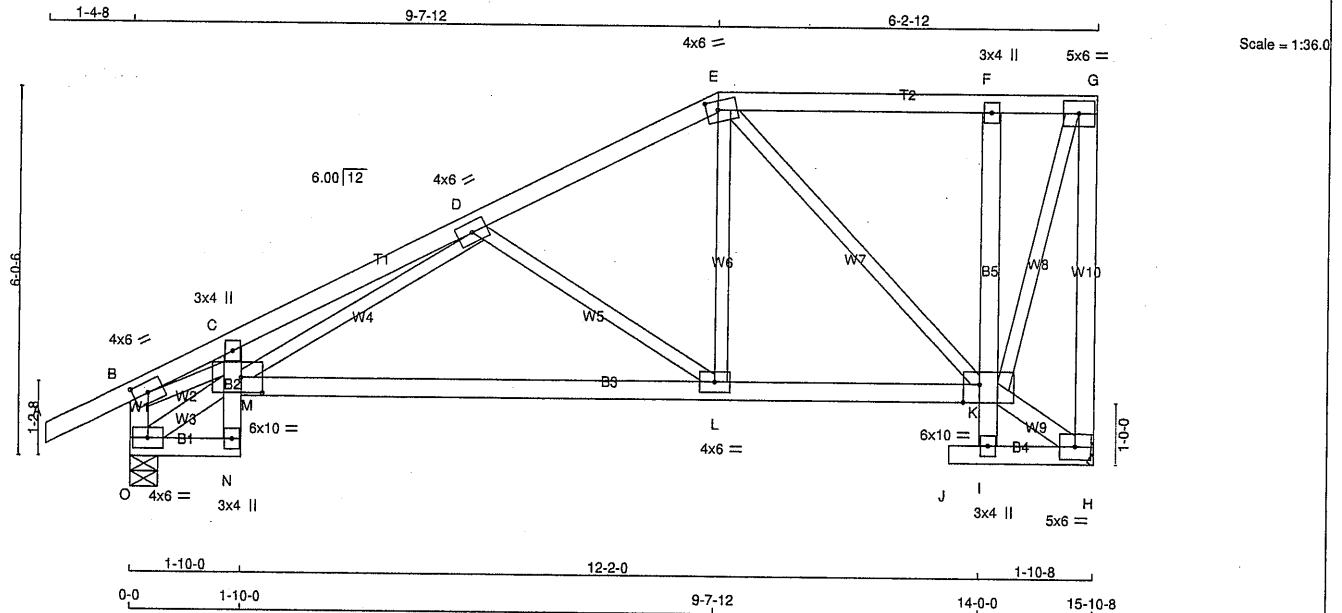


Structural component only
DWG# T-2406437

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T47S	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:VL_DQv1e49Qy7axT?i10OzOYuG-GXtloPZV3OCA8c9NZd4DMN8FwxBfBoselPh5Szzgavk



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - E	2x4 DRY	No.2	SPF		
E - G	2x4 DRY	No.2	SPF		
H - G	2x4 DRY	No.2	SPF		
O - B	2x4 DRY	No.2	SPF		
O - N	2x4 DRY	No.2	SPF		
N - C	2x4 DRY	No.2	SPF		
M - K	2x4 DRY	No.2	SPF		
I - F	2x4 DRY	No.2	SPF		
J - H	2x4 DRY	No.2	SPF		
ALL WEBS	2x3 DRY	No.2	SPF		
EXCEPT					
K - H	2x4 DRY	No.2	SPF		
O - M	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	6.0	2.00	3.00	
C	TMV+p	MT20	3.0	4.0			
D	TMVW-t	MT20	4.0	6.0			
E	TTWW-m	MT20	4.0	6.0	1.75	2.25	
F	TMV+p	MT20	3.0	4.0			
G	TMVW-t	MT20	5.0	6.0			
H	BMVW1-t	MT20	5.0	6.0			
I	BMV+p	MT20	3.0	4.0			
K	BMVWWVW-1	MT20	6.0	10.0	Edge	3.25	
L	BMVW-t	MT20	4.0	6.0			
M	BMVWWVW-1	MT20	6.0	10.0	3.00	4.25	
N	BMV+p	MT20	3.0	4.0			
O	BMVW1-t	MT20	4.0	6.0			

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

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	IN-SX	IN-SX
H	826	0	0	MECHANICAL
O	949	0	0	1-8

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED	587	367 / 0	0 / 0	0 / 0	220 / 0	0 / 0
H		672	440 / 0	0 / 0	0 / 0	232 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.94 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE	VERT. LOAD LC1	MEMB.	FORCE
(LBS)	(PLF)	CS1 (LC)	(LBS)	CS1 (LC)
FR-TO		FROM TO	FR-TO	
A-B	0 / 27	-84.9 -84.9 0.12 (1)	M-D	0 / 497
B-C	-1574 / 0	-84.9 -84.9 0.12 (1)	D-L	-526 / 0
C-D	-1670 / 0	-84.9 -84.9 0.21 (1)	L-E	0 / 443
D-E	-764 / 0	-84.9 -84.9 0.18 (1)	E-K	-544 / 0
E-F	-300 / 0	-84.9 -84.9 0.19 (1)	K-H	-27 / 0
F-G	-295 / 0	-84.9 -84.9 0.16 (1)	K-G	0 / 861
H-G	-796 / 0	0.0 0.0 0.55 (1)	O-M	-125 / 0
O-B	-870 / 0	0.0 0.0 0.09 (1)	B-M	0 / 1382
O-N	0 / 107	-18.5 -18.5 0.03 (1)		
N-M	0 / 17	0.0 0.0 0.15 (1)		
M-C	-173 / 0	0.0 0.0 0.11 (1)		
M-L	0 / 1104	-18.5 -18.5 0.35 (4)		
L-K	0 / 675	-18.5 -18.5 0.32 (4)		
I-K	0 / 31	0.0 0.0 0.04 (1)		
K-F	-384 / 0	0.0 0.0 0.06 (1)		
J-I	0 / 0	-18.5 -18.5 0.01 (4)		
I-H	0 / 24	-18.5 -18.5 0.02 (4)		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.53")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.53")
CALCULATED VERT. DEFL.(TL) = L/999 (0.17")

CS1: TC=0.55/1.00 (G-H:1), BC=0.35/1.00 (L-M:4), WB=0.40/1.00 (E-K:1), SSI=0.18/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.75 (M) (INPUT = 0.90)
JSI METAL= 0.38 (B) (INPUT = 0.95)

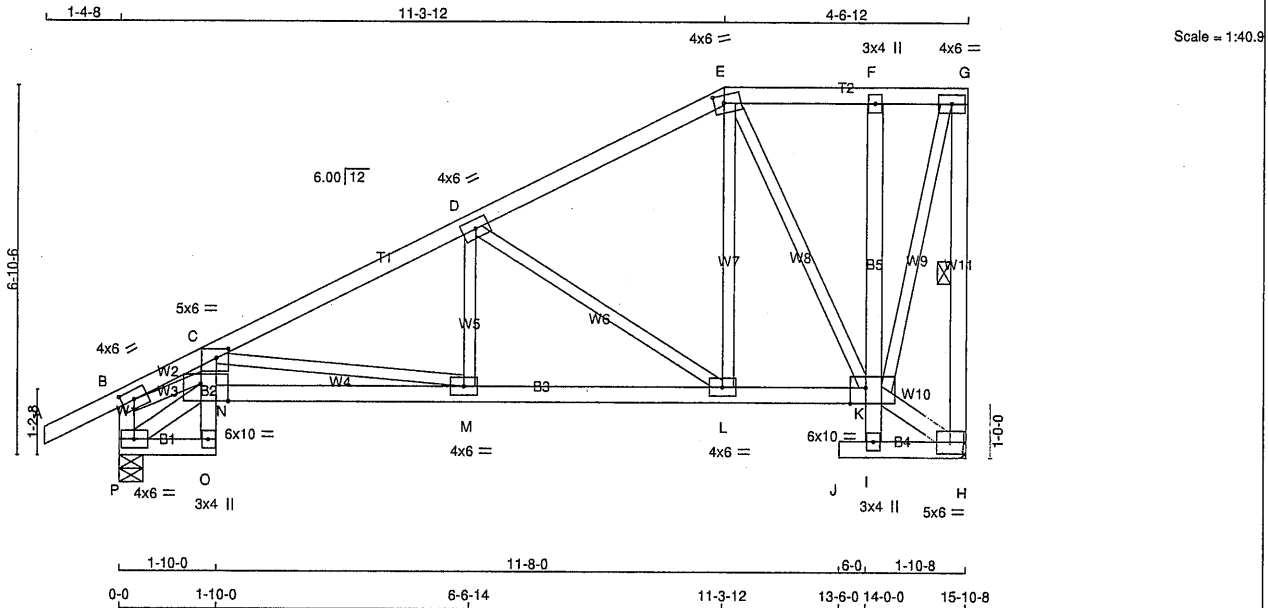


Structural component only
DWG# T-2406438

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T48S	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:V1_DQvi1e49Qy7axT?i10OzOYuG-kkRg0lZ7qhK1mmjZ7KbSvbhUGLYWwF0na2Re_Pzgavj



LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				DESIGN CRITERIA			
N. L. G. A. RULES				BEARINGS				SPECIFIED LOADS:			
CHORDS	SIZE	LUMBER	DESCR.	FACTORED	MAXIMUM FACTORED	INPUT	REQD	TOP CH.	LL = 23.3	PSF	
A - E	2x4	DRY	No.2	GROSS REACTION	GROSS REACTION	BRG	BRG	DL = 6.0	PSF		
E - G	2x4	DRY	No.2	VERT	HORZ	DOWN	UPLIFT	BOT CH.	LL = 0.0	PSF	
H - G	2x4	DRY	No.2	H	826	0	826	DL = 7.4	PSF		
P - B	2x4	DRY	No.2	P	949	0	949	TOTAL LOAD = 36.7	PSF		
P - O	2x4	DRY	No.2	A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT H. MINIMUM BEARING LENGTH AT JOINT H = 1-8.							
O - C	2x4	DRY	No.2								
N - K	2x4	DRY	No.2								
I - F	2x4	DRY	No.2								
J - H	2x4	DRY	No.2								
ALL WEBS	2x3	DRY	No.2								
EXCEPT											
P - N	2x4	DRY	No.2								
K - H	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	6.0	2.00 3.00
C	TMVW-p	MT20	5.0	6.0	2.00 2.75
D	TMWW-t	MT20	4.0	6.0	
E	TTWW-m	MT20	4.0	6.0	1.75 2.25
F	TMV+p	MT20	3.0	4.0	
G	TMVW-t	MT20	4.0	6.0	
H	BMVW1-t	MT20	5.0	6.0	
I	BMV+p	MT20	3.0	4.0	
K	BVMWWW-I	MT20	6.0	10.0	Edge 3.50
L	BMWW-t	MT20	4.0	6.0	
M	BMWW-t	MT20	4.0	6.0	
N	BVMWW-I	MT20	6.0	10.0	Edge 6.00
O	BMV+p	MT20	3.0	4.0	
P	BMVW1-t	MT20	4.0	6.0	

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

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

UNFACTORED REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	587	367 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0
P	672	440 / 0	0 / 0	0 / 0	0 / 0	232 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.08 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING				CHORDS				WEBS			
TOTAL LOAD CASES: (4)				MAX. FACTORED				MAX. FACTORED			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB.	FORCE (LBS)	MAX. UNBRACED LENGTH		MEMB.	FORCE (LBS)	MAX. UNBRACED LENGTH	
FR-TO		FROM TO	CSI (LC)	FR-TO		FROM TO	CSI (LC)	FR-TO		FROM TO	CSI (LC)
A-B	0 / 27	-84.9	-84.9 0.12 (1)	10.00	C-M	-544 / 0	0.22 (1)				
B-C	-1634 / 0	-84.9	-84.9 0.12 (1)	5.08	M-D	0 / 183	0.05 (4)				
C-D	-1169 / 0	-84.9	-84.9 0.26 (1)	5.60	D-L	-705 / 0	0.41 (1)				
D-E	-551 / 0	-84.9	-84.9 0.24 (1)	6.25	L-E	0 / 461	0.10 (1)				
E-F	-237 / 0	-84.9	-84.9 0.07 (1)	6.25	E-K	-539 / 0	0.36 (1)				
F-G	-233 / 0	-84.9	-84.9 0.05 (1)	6.25	P-N	-131 / 0	0.01 (1)				
H-G	-797 / 0	0.0	0.0 0.17 (1)	6.25	B-N	0 / 1450	0.33 (1)				
P-B	-867 / 0	0.0	0.0 0.09 (1)	7.81	K-H	-26 / 0	0.00 (1)				
					K-G	0 / 787	0.18 (1)				
P-O	0 / 113	-18.5	-18.5 0.03 (1)	10.00							
O-N	0 / 17	0.0	0.0 0.16 (1)	10.00							
N-C	0 / 72	0.0	0.0 0.17 (1)	10.00							
N-M	0 / 1599	-18.5	-18.5 0.31 (1)	10.00							
M-L	0 / 1062	-18.5	-18.5 0.22 (1)	10.00							
L-K	0 / 482	-18.5	-18.5 0.10 (1)	10.00							
I-K	0 / 31	0.0	0.0 0.03 (1)	10.00							
K-F	-238 / 0	0.0	0.0 0.06 (1)	7.81							
J-I	0 / 0	-18.5	-18.5 0.01 (4)	10.00							
I-H	0 / 22	-18.5	-18.5 0.02 (4)	10.00							



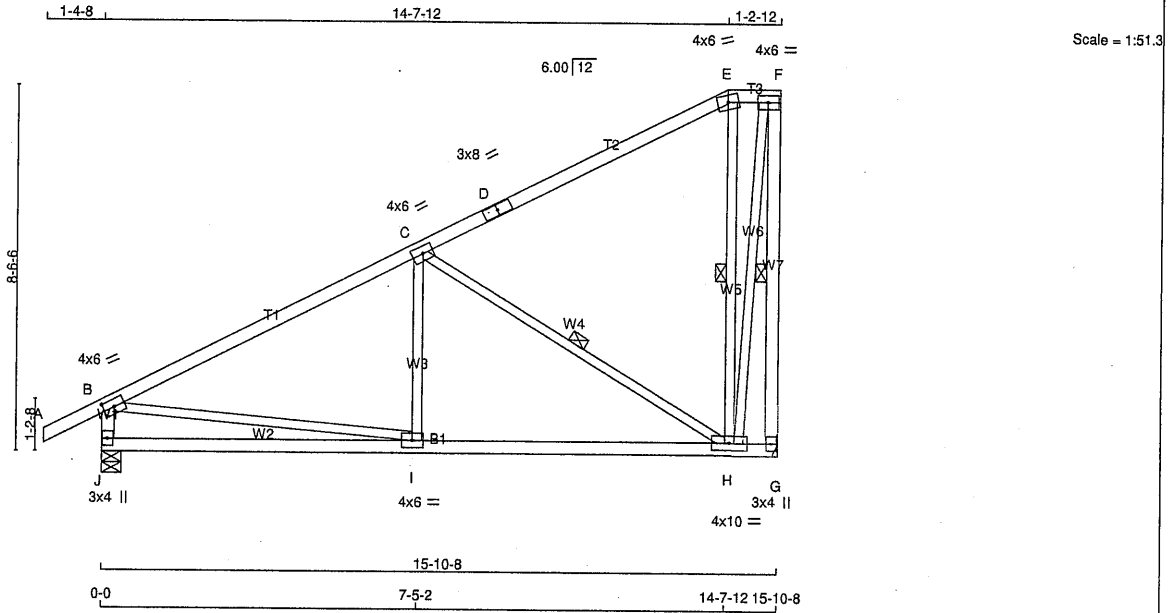
Structural component only
DWG# T-2406439

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T50	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:V1_DQvi1e49Qy7axT?i10OzOYUG-g6YQRRbNMJal?3tyEldw_0mkv9CdO7r41Mwl2Hzgavh



LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
A - D	2x4	DRY	No.2	SPF
D - E	2x4	DRY	No.2	SPF
E - F	2x4	DRY	No.2	SPF
G - F	2x4	DRY	No.2	SPF
J - B	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-t	MT20	4.0	6.0	2.00 3.00
C	TMVW-t	MT20	4.0	6.0	
D	TS-l	MT20	3.0	8.0	
E	TTW-m	MT20	4.0	6.0	
F	TMVW-t	MT20	4.0	6.0	
G	BMV1+P	MT20	3.0	4.0	
H	BMVWW-t	MT20	4.0	10.0	
I	BMVW-t	MT20	4.0	6.0	
J	BMV1+P	MT20	3.0	4.0	

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT		REQRD		
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
G	820	0	820	0	0	MECHANICAL			
J	943	0	943	0	0	5-8	1-8		
A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT G. MINIMUM BEARING LENGTH AT JOINT G = 1-8.									

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
G	582	370 / 0	0 / 0	0 / 0	0 / 0	213 / 0	0 / 0
J	667	437 / 0	0 / 0	0 / 0	0 / 0	230 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.43 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.

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

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

CHORDS							WEBS						
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. (LC)	MAX. UNBRAC LENGTH	FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. (LC)		
												FROM	TO
A-B	0 / 27	-84.9	-84.9 0.12 (1)	10.00	I-C	0 / 142	0.05 (4)						
B-C	-914 / 0	-84.9	-84.9 0.64 (1)	5.43	C-H	-872 / 0	0.45 (1)						
C-D	-158 / 0	-84.9	-84.9 0.60 (1)	6.25	H-E	-227 / 0	0.11 (1)						
D-E	-158 / 0	-84.9	-84.9 0.60 (1)	6.25	H-F	0 / 792	0.18 (1)						
E-F	-107 / 0	-84.9	-84.9 0.02 (1)	6.25	B-I	0 / 854	0.19 (1)						
G-F	-836 / 0	0.0	0.0 0.28 (1)	6.25									
J-B	-888 / 0	0.0	0.0 0.09 (1)	7.81									

J-I	0 / 0	-18.5	-18.5 0.26 (4)	10.00
I-H	0 / 848	-18.5	-18.5 0.33 (4)	10.00
H-G	0 / 0	-18.5	-18.5 0.11 (4)	10.00

TOTAL WEIGHT = 2 X 79 = 158 lb [M]F

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 , NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.53")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.53")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.64/1.00 (B-C:1) , BC=0.33/1.00 (H-I:4) , WB=0.45/1.00 (C-H:1) , SSI=0.27/1.00 (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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.67 (H) (INPUT = 0.90)
JSI METAL= 0.25 (B) (INPUT = 0.95)

Structural component only
DWG# T-2406441



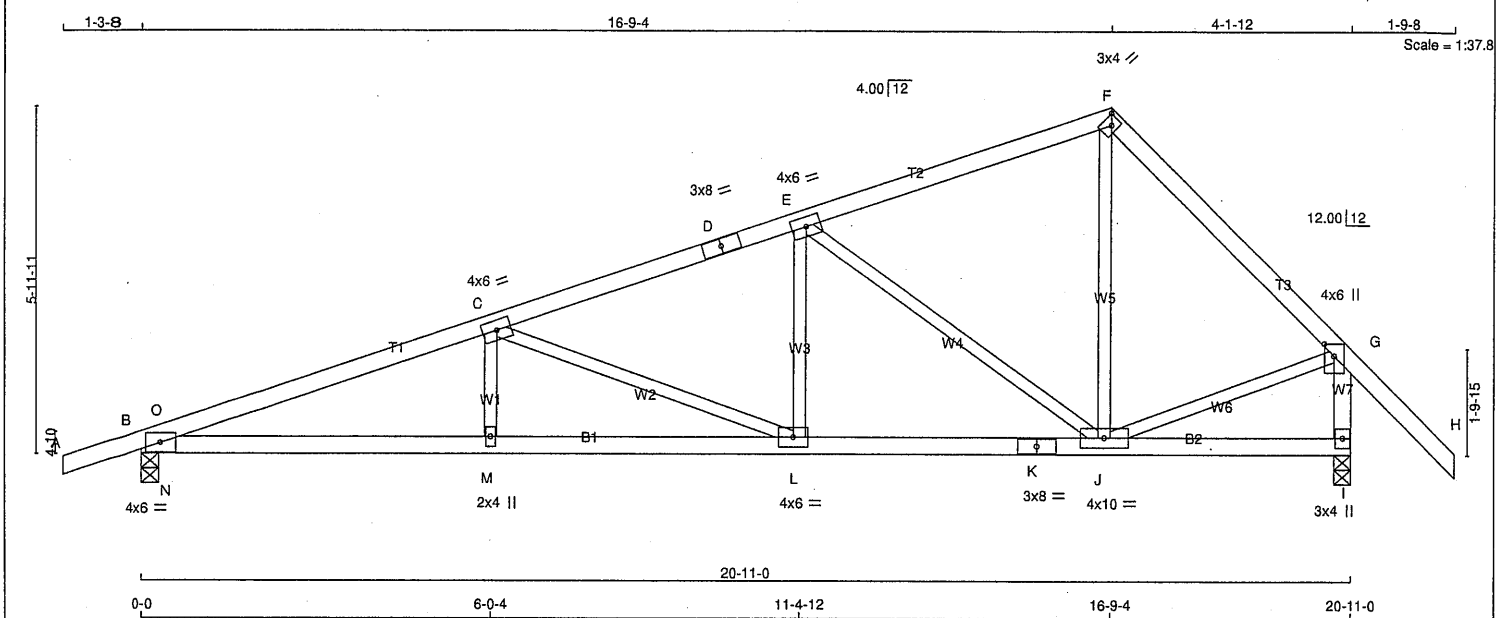
Structural component only

DWG# T-2406441

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T55	6	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:BlavEunaME1?qkeVm6JJQNzgujs-4hEZ3SdGeEzKsXcXvuBdceOJnMCpbPoXJK8Pfczgave



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - D 2x4 DRY No.2 SPF C - F 2x4 DRY No.2 SPF D - F 2x4 DRY No.2 SPF F - H 2x4 DRY No.2 SPF I - G 2x4 DRY No.2 SPF B - K 2x4 DRY No.2 SPF K - I 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 TMB1-I MT20 4.0 6.0 C TMWW-t MT20 4.0 6.0 D TS-I MT20 3.0 8.0 E TMWW-t MT20 4.0 6.0 F TTW+h MT20 3.0 4.0 Edge 1.75 G TMVW+p MT20 4.0 6.0 2.50 2.00 I BMV1+p MT20 3.0 4.0 J BMVWW-t MT20 4.0 10.0 K BS-I MT20 3.0 8.0 L BMVW-t MT20 4.0 6.0 M BMW+w MT20 2.0 4.0 Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD. NOTES (1) 1) Lateral braces to be a minimum of 2X4 SPF #2.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION JT VERT HORZ B 1195 0 I 1242 0 MAXIMUM FACTORED GROSS REACTION DOWN HORZ UPLIFT 1195 0 0 1242 0 0 INPUT BRG IN-SX 3-8 1-8 3-8 1-8 RECORD BRG IN-SX 1-8 1-8 1-8 1-8 UNFACTORED REACTIONS 1ST LCASE MAX/MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL B 846 549 / 0 0 / 0 0 / 0 296 / 0 0 / 0 I 878 575 / 0 0 / 0 0 / 0 303 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, I BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.13 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS MEMB. MAX. FACTORED FORCE (LBS) FR-TO A-B 0 / 15 B-O -2497 / 0 O-C -2444 / 0 C-D -1595 / 0 D-E -1595 / 0 E-F -705 / 0 F-G -917 / 0 G-H 0 / 57 I-G -1212 / 0 B-N 0 / 2322 N-M 0 / 2322 M-L 0 / 2322 L-K 0 / 1517 K-J 0 / 1517 J-I 0 / 0 FACTORED VERT. LOAD LC1 MAX -84.9 -84.9 0.11 (1) -84.9 -84.9 0.19 (1) -84.9 -84.9 0.34 (1) -84.9 -84.9 0.30 (1) -84.9 -84.9 0.30 (1) -84.9 -84.9 0.28 (1) -84.9 -84.9 0.20 (1) -84.9 -84.9 0.22 (1) 0.0 0.0 0.13 (1) -18.5 -18.5 0.45 (1) -18.5 -18.5 0.49 (1) -18.5 -18.5 0.42 (1) -18.5 -18.5 0.30 (1) -18.5 -18.5 0.30 (1) -18.5 -18.5 0.10 (4) WEBS MEMB. MAX. FACTORED FORCE (LBS) FR-TO M-C 0 / 120 C-L -864 / 0 L-E 0 / 411 E-J -1069 / 0 J-F 0 / 509 F-G 0 / 685 G-H -75 / 84 0.04 (4) 0.50 (1) 0.09 (1) 0.83 (1) 0.11 (1) 0.15 (1) 0.00 (1)				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 6.0 PSF BOT CH. LL = 0.0 PSF DL = 7.4 PSF TOTAL LOAD = 36.7 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, NBC-2019AE - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL) = L/360 (0.70") CALCULATED VERT. DEFL.(LL) = L/999 (0.09") ALLOWABLE DEFL.(TL) = L/360 (0.70") CALCULATED VERT. DEFL.(TL) = L/999 (0.17") CSI: TC=0.34/1.00 (C-O-1), BC=0.49/1.00 (M-N-1), WB=0.83/1.00 (E-J-1), SSI=0.20/1.00 (E-F-1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10 COMPANION LIVE LOAD FACTOR = 1.00 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT. NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.75 (F) (INPUT = 0.90) JSI METAL= 0.52 (B) (INPUT = 0.95)			
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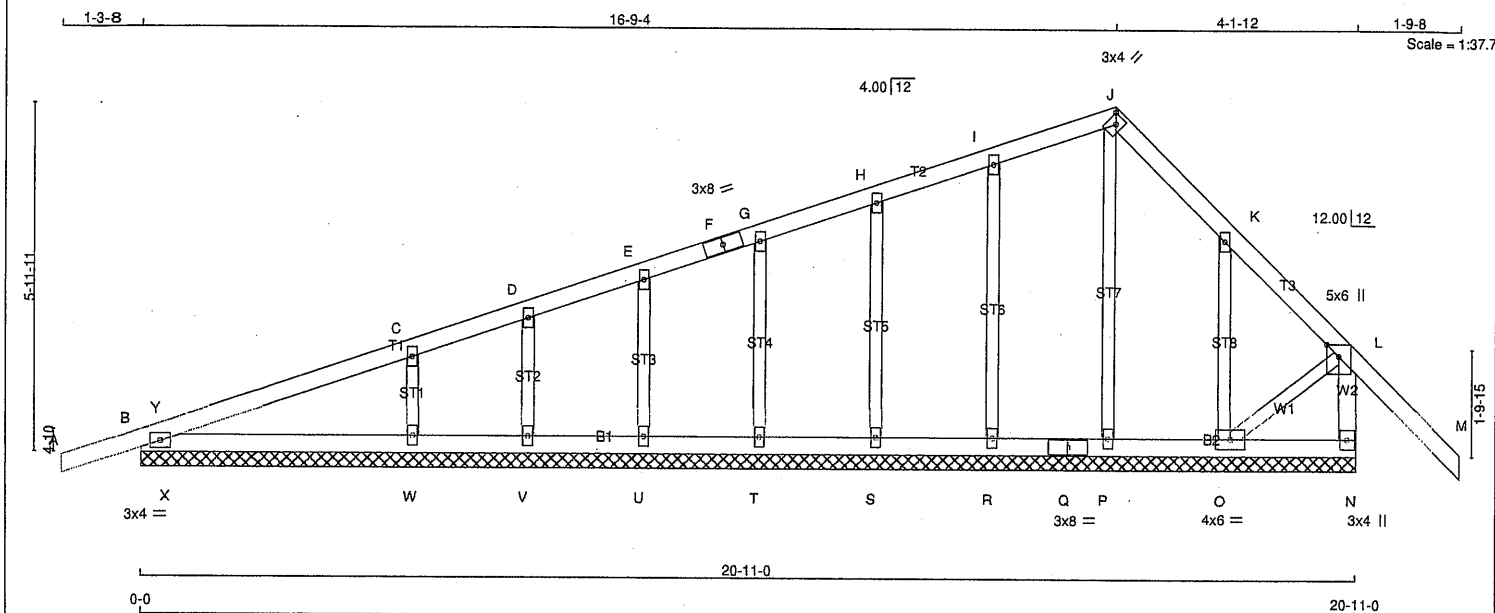
Structural component only
DWG# T-2406443

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T55G	6	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Wed Feb 28 15:03:34 2024 Page 1

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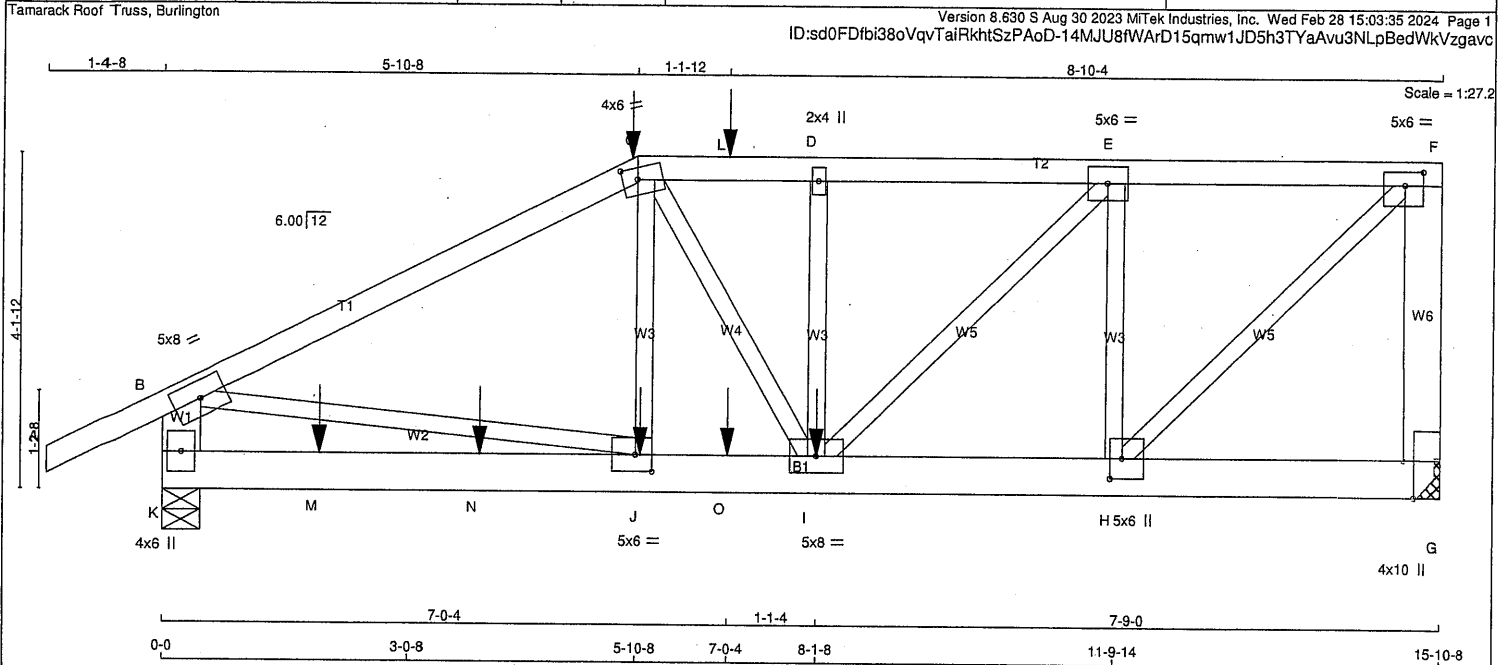


LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS. THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE. BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 6.0 PSF BOT CH. LL = 0.0 PSF DL = 7.4 PSF TOTAL LOAD = 36.7 PSF			
ALL WEBS 2x3 DRY No.2 SPF ALL GABLE WEBS 2x3 DRY No.2 SPF DRY: SEASONED LUMBER.				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.				SPACING = 24.0 IN. C/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 , NBC-2019AE - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014			
PLATES (table is in inches) JT TYPE PLATES W LEN Y X C, D, E, G, H, I, K MT20 3.0 4.0 C TMW+w MT20 2.0 4.0 F TS-I MT20 3.0 8.0 J TTW+h MT20 3.0 4.0 Edge 1.75 L TMVW+p MT20 5.0 6.0 Edge N BMV1+p MT20 3.0 4.0 O BMVW1-t MT20 4.0 6.0 P, R, S, T, U, V, W P BMV1+w MT20 2.0 4.0 Q BS-I MT20 3.0 8.0 Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.				LOADING TOTAL LOAD CASES: (4) CHORDS MAX. FACTORED MEMB. FORCE (LBS) VERT. LOAD LC1 MAX. FACTORED (PLF) CSI (LC) UNBRAC LENGTH FR-TO A-B 0/15 -84.9 -84.9 0.11 (1) 10.00 P-J -121/0 0.07 (1) B-Y -40/0 -84.9 -84.9 0.03 (4) 6.25 R-I -198/0 0.08 (1) Y-C -37/0 -84.9 -84.9 0.19 (1) 6.25 S-H -164/0 0.05 (1) C-D -58/0 -84.9 -84.9 0.19 (1) 6.25 T-G -166/0 0.04 (1) D-E -29/0 -84.9 -84.9 0.05 (1) 6.25 U-E -188/0 0.04 (1) E-F -32/0 -84.9 -84.9 0.05 (1) 6.25 V-D -85/0 0.01 (1) F-G -32/0 -84.9 -84.9 0.05 (1) 6.25 W-C -356/0 0.05 (1) G-H -29/0 -84.9 -84.9 0.04 (1) 6.25 O-K -109/0 0.03 (1) H-I -26/0 -84.9 -84.9 0.05 (1) 6.25 Q-L 0/35 0.01 (1) I-J -31/0 -84.9 -84.9 0.05 (1) 6.25 X-Y -180/10 0.00 (1) J-K -40/0 -84.9 -84.9 0.05 (1) 6.25 K-L -89/0 -84.9 -84.9 0.21 (1) 6.25 L-M 0/57 -84.9 -84.9 0.22 (1) 10.00 N-L -368/0 0.0 0.0 0.04 (1) 7.81 B-X 0/45 -18.5 -18.5 0.13 (1) 10.00 X-W 0/45 -18.5 -18.5 0.13 (1) 10.00 W-V 0/34 -18.5 -18.5 0.10 (1) 10.00 V-U 0/33 -18.5 -18.5 0.02 (1) 10.00 U-T 0/30 -18.5 -18.5 0.02 (4) 10.00 T-S 0/28 -18.5 -18.5 0.02 (4) 10.00 S-R 0/26 -18.5 -18.5 0.02 (4) 10.00 R-Q 0/24 -18.5 -18.5 0.02 (4) 10.00 Q-P 0/24 -18.5 -18.5 0.02 (4) 10.00 P-O 0/26 -18.5 -18.5 0.02 (4) 10.00 O-N 0/0 -18.5 -18.5 0.02 (4) 10.00				DESIGN ASSUMPTIONS -OVERHANG NOT TO BE ALTERED OR CUT OFF. (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD CSI: TC=0.22/1.00 (L-M:1) , BC=0.13/1.00 (W-X:1) , WB=0.08/1.00 (I-R:1) , SSI=0.15/1.00 (C-Y: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 650 371 1747 788 1987 1873 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.61 (J) (INPUT = 0.90) JSI METAL= 0.10 (C) (INPUT = 0.95)			
NOTES- (1) 1) Lateral braces to be a minimum of 2X4 SPF #2.											



Structural component only
DWG# T-2406444

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T61	2	1	TRUSS DESC.		



LUMBER										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA									
N. L. G. A. RULES										BEARINGS										SPECIFIED LOADS:									
CHORDS SIZE LUMBER DESCR.										FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQD										TOP CH. LL = 23.3 PSF									
A - C 2x4 DRY No.2 SPF										JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX										DL = 6.0 PSF									
C - F 2x4 DRY No.2 SPF										G 1587 0 1587 0 0 0 MECHANICAL										BOT CH. LL = 0.0 PSF									
G - F 2x6 DRY No.2 SPF										K 1889 0 1889 0 0 5-8 2-1										DL = 7.4 PSF									
K - B 2x6 DRY No.2 SPF										A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT G. MINIMUM BEARING LENGTH AT JOINT G = 3-8.										TOTAL LOAD = 36.7 PSF									
ALL WEBS 2x3 DRY No.2 SPF										UNFACTORED REACTIONS										SPACING = 24.0 IN. C/C									
EXCEPT										1ST LCASE MAX./MIN. COMPONENT REACTIONS										LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12									
DRY: SEASONED LUMBER.										JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL										THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015									
PLATES (table is in inches)										K 1337 871 / 0 0 / 0 0 / 0 0 / 0 386 / 0 0 / 0 466 / 0 0 / 0										THIS DESIGN COMPLIES WITH: - PART 9 OF BCBC 2018 , NBC-2019AE - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014									
JT TYPE PLATES W LEN Y X										Bearing material to be SPF No.2 or better at joint(s) K										(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD									
B TMVW-t MT20 5.0 8.0										BRACING										ALLOWABLE DEFL.(LL)= L/360 (0.53")									
C TTWW-m MT20 4.0 6.0 1.75 2.25										TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.39 FT.										CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")									
D TMW+w MT20 2.0 4.0										MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.										ALLOWABLE DEFL.(TL)= L/360 (0.53")									
E TMWW-t MT20 5.0 6.0										ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.										CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")									
F TMVW-t MT20 5.0 6.0 2.00 2.75										LOADING										CSI: TC=0.83/1.00 (B-C:1) , BC=0.39/1.00 (I-J:1) , WB=0.56/1.00 (B-J:1) , SSI=0.19/1.00 (B-C:1)									
G BMV1-t MT20 4.0 10.0 Edge 1.50										TOTAL LOAD CASES: (4)										DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00									
H BMWW+t MT20 5.0 6.0 3.00 1.75										CHORDS										COMPANION LIVE LOAD FACTOR = 1.00									
I BMWWW-t MT20 5.0 8.0										MEMB. FORCE (LBS) FACTORED VERT. LOAD LC1 MAX UNBR. MAX. FACTORED										AUTOSOLVE RIGHT HEEL ONLY									
J BMWW-t MT20 5.0 6.0 2.50 2.50										FR-TO FROM TO LENGTH FR-TO										TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .									
K BMV1+p MT20 4.0 6.0										A-B 0 / 27 -84.9 -84.9 0.14 (1) 10.00										NAIL VALUES									
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.										B-C -2511 / 0 -84.9 -84.9 0.83 (1) 3.39										PLATE GRIP(DRY) SHEAR SECTION									
NOTES- (1)										C-L -2419 / 0 -84.9 -84.9 0.25 (1) 4.14										(PSI) (PLI) (PLI)									
1) Lateral braces to be a minimum of 2X4 SPF #2.										L-D -2419 / 0 -84.9 -84.9 0.25 (1) 4.14										MAX MIN MAX MIN MAX MIN									
										D-E -2419 / 0 -84.9 -84.9 0.29 (1) 4.11										MT20 650 371 1747 788 1987 1873									
										E-F -1521 / 0 -84.9 -84.9 0.24 (1) 5.04										PLATE PLACEMENT TOL. = 0.250 inches									
										G-F -1556 / 0 0.0 0.0 0.25 (1) 7.81										PLATE ROTATION TOL. = 5.0 Deg.									
										K-B -1804 / 0 0.0 0.0 0.13 (1) 7.39										JSI GRIP= 0.79 (C) (INPUT = 0.90)									
										K-M 0 / 0 -18.5 -18.5 0.15 (4) 10.00										JSI METAL= 0.55 (H) (INPUT = 0.95)									
										M-N 0 / 0 -18.5 -18.5 0.15 (4) 10.00																			
										N-J 0 / 0 -18.5 -18.5 0.15 (4) 10.00																			
										J-O 0 / 2243 -18.5 -18.5 0.39 (1) 10.00																			
										O-I 0 / 2243 -18.5 -18.5 0.39 (1) 10.00																			
										I-H 0 / 1521 -18.5 -18.5 0.30 (1) 10.00																			
										H-G 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 5-10-8 -331 -331 --- FRONT VERT TOTAL --- C1																			
										I 8-1-8 -651 -651 --- FRONT VERT TOTAL --- C1																			
										J 5-11-4 -29 -29 --- FRONT VERT TOTAL --- C1																			
										L 7-0-4 -113 -113 --- FRONT VERT TOTAL --- C1																			
										M 1-11-4 -29 -29 --- FRONT VERT TOTAL --- C1																			
										N 3-11-4 -29 -29 --- FRONT VERT TOTAL --- C1																			
										O 7-0-4 -29 -29 --- FRONT VERT TOTAL --- C1																			
										CONNECTION REQUIREMENTS																			
										1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.																			

LICENSED PROFESSIONAL ENGINEER

02-28-24

H. J. G. ALVES

100009024

PROVINCE OF ONTARIO

Structural component only
DWG# T-2406445



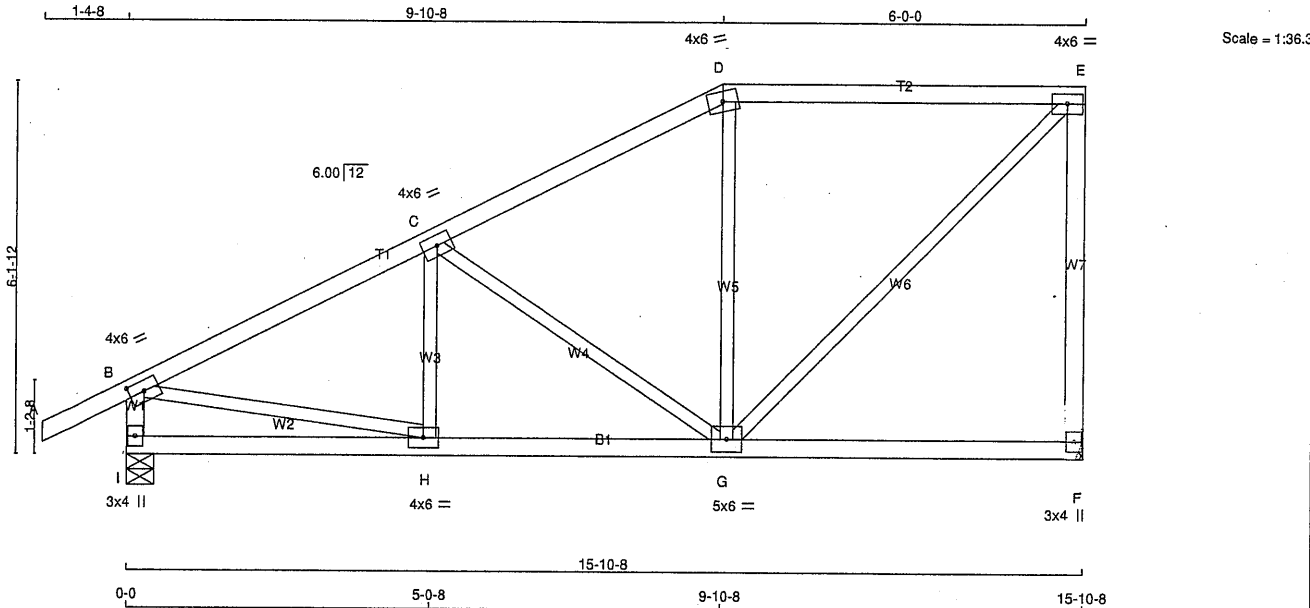
Structural component only
DWG# T-2406445

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T63	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:sd0FDfbi38oVqvTaiRkhtSzPAoD-Rf1S6AhPTmbcyIUUiRmoJi57vNzDGoL.GtcsALqzgavZ



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER A - D 2x4 DRY No.2 D - E 2x4 DRY No.2 F - E 2x4 DRY No.2 I - B 2x4 DRY No.2 I - F 2x4 DRY No.2 ALL WEBS 2x3 DRY No.2 EXCEPT SPF DRY: SEASONED LUMBER.							DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><td></td><td>FACTORED</td><td>MAXIMUM FACTORED</td><td>INPUT</td><td>REQRD</td></tr><tr><td></td><td>GROSS REACTION</td><td>GROSS REACTION</td><td>BRG</td><td>BRG</td></tr><tr><td>JT</td><td>VERT</td><td>HORZ</td><td>DOWN</td><td>HORZ</td></tr><tr><td>F</td><td>820</td><td>0</td><td>820</td><td>0</td></tr><tr><td>I</td><td>943</td><td>0</td><td>943</td><td>0</td></tr></table> A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT F. MINIMUM BEARING LENGTH AT JOINT F = 1-8. UNFACTORED REACTIONS <table><tr><td></td><td>1ST LCASE</td><td>MAX/MIN. SNOW</td><td>MAX/MIN. LIVE</td><td>MAX/MIN. PERM. LIVE</td><td>MAX/MIN. WIND</td><td>MAX/MIN. DEAD</td><td>MAX/MIN. SOIL</td></tr><tr><td>JT</td><td>COMBINED</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>F</td><td>582</td><td>370 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>213 / 0</td><td>0 / 0</td></tr><tr><td>I</td><td>667</td><td>437 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>230 / 0</td><td>0 / 0</td></tr></table> BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) I BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.94 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) <table><tr><td colspan="4">CHORDS</td><td colspan="4">WEBS</td></tr><tr><td>MEMB.</td><td>MAX. FACTORED FORCE (LBS)</td><td>FACTORED VERT. LOAD (PLF)</td><td>FACTORED LC1 MAX CSI (LC)</td><td>MEMB.</td><td>MAX. FACTORED FORCE (LBS)</td><td>FACTORED VERT. LOAD (PLF)</td><td>FACTORED LC1 MAX CSI (LC)</td></tr><tr><td>FR-TO</td><td></td><td>FROM TO</td><td></td><td>FR-TO</td><td></td><td>FROM TO</td><td></td></tr><tr><td>A-B</td><td>0 / 27</td><td>-84.9 -84.9</td><td>0.12 (1)</td><td>10.00</td><td>H-C</td><td>-69 / 49</td><td>0.02 (4)</td></tr><tr><td>B-C</td><td>-991 / 0</td><td>-84.9 -84.9</td><td>0.27 (1)</td><td>5.94</td><td>C-G</td><td>-460 / 0</td><td>0.29 (1)</td></tr><tr><td>C-D</td><td>-614 / 0</td><td>-84.9 -84.9</td><td>0.26 (1)</td><td>6.25</td><td>G-D</td><td>-144 / 18</td><td>0.09 (1)</td></tr><tr><td>D-E</td><td>-525 / 0</td><td>-84.9 -84.9</td><td>0.39 (1)</td><td>6.25</td><td>G-E</td><td>0 / 740</td><td>0.17 (1)</td></tr><tr><td>F-E</td><td>-775 / 0</td><td>0.0 0.0</td><td>0.57 (1)</td><td>7.81</td><td>B-H</td><td>0 / 921</td><td>0.21 (1)</td></tr><tr><td>I-B</td><td>-902 / 0</td><td>0.0 0.0</td><td>0.09 (1)</td><td>7.81</td><td></td><td></td><td></td></tr><tr><td>I-H</td><td>0 / 0</td><td>-18.5 -18.5</td><td>0.10 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>H-G</td><td>0 / 906</td><td>-18.5 -18.5</td><td>0.22 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>G-F</td><td>0 / 0</td><td>-18.5 -18.5</td><td>0.14 (4)</td><td>10.00</td><td></td><td></td><td></td></tr></table>											FACTORED	MAXIMUM FACTORED	INPUT	REQRD		GROSS REACTION	GROSS REACTION	BRG	BRG	JT	VERT	HORZ	DOWN	HORZ	F	820	0	820	0	I	943	0	943	0		1ST LCASE	MAX/MIN. SNOW	MAX/MIN. LIVE	MAX/MIN. PERM. LIVE	MAX/MIN. WIND	MAX/MIN. DEAD	MAX/MIN. SOIL	JT	COMBINED							F	582	370 / 0	0 / 0	0 / 0	0 / 0	213 / 0	0 / 0	I	667	437 / 0	0 / 0	0 / 0	0 / 0	230 / 0	0 / 0	CHORDS				WEBS				MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)	FR-TO		FROM TO		FR-TO		FROM TO		A-B	0 / 27	-84.9 -84.9	0.12 (1)	10.00	H-C	-69 / 49	0.02 (4)	B-C	-991 / 0	-84.9 -84.9	0.27 (1)	5.94	C-G	-460 / 0	0.29 (1)	C-D	-614 / 0	-84.9 -84.9	0.26 (1)	6.25	G-D	-144 / 18	0.09 (1)	D-E	-525 / 0	-84.9 -84.9	0.39 (1)	6.25	G-E	0 / 740	0.17 (1)	F-E	-775 / 0	0.0 0.0	0.57 (1)	7.81	B-H	0 / 921	0.21 (1)	I-B	-902 / 0	0.0 0.0	0.09 (1)	7.81				I-H	0 / 0	-18.5 -18.5	0.10 (4)	10.00				H-G	0 / 906	-18.5 -18.5	0.22 (1)	10.00				G-F	0 / 0	-18.5 -18.5	0.14 (4)	10.00				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 6.0 PSF BOT CH. LL = 0.0 PSF DL = 7.4 PSF TOTAL LOAD = 36.7 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, NBC-2019AE - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.53") CALCULATED VERT. DEFL.(LL) = L/999 (0.02") ALLOWABLE DEFL.(TL)= L/360 (0.53") CALCULATED VERT. DEFL.(TL) = L/999 (0.05") CSI: TC=0.57/1.00 (E-F:1), BC=0.22/1.00 (G-H:1), WB=0.29/1.00 (C-G:1), SSI=0.20/1.00 (D-E:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 1.00 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT. NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.68 (G) (INPUT = 0.90) JSI METAL= 0.26 (B) (INPUT = 0.95)				
	FACTORED	MAXIMUM FACTORED	INPUT	REQRD																																																																																																																																																																										
	GROSS REACTION	GROSS REACTION	BRG	BRG																																																																																																																																																																										
JT	VERT	HORZ	DOWN	HORZ																																																																																																																																																																										
F	820	0	820	0																																																																																																																																																																										
I	943	0	943	0																																																																																																																																																																										
	1ST LCASE	MAX/MIN. SNOW	MAX/MIN. LIVE	MAX/MIN. PERM. LIVE	MAX/MIN. WIND	MAX/MIN. DEAD	MAX/MIN. SOIL																																																																																																																																																																							
JT	COMBINED																																																																																																																																																																													
F	582	370 / 0	0 / 0	0 / 0	0 / 0	213 / 0	0 / 0																																																																																																																																																																							
I	667	437 / 0	0 / 0	0 / 0	0 / 0	230 / 0	0 / 0																																																																																																																																																																							
CHORDS				WEBS																																																																																																																																																																										
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)																																																																																																																																																																							
FR-TO		FROM TO		FR-TO		FROM TO																																																																																																																																																																								
A-B	0 / 27	-84.9 -84.9	0.12 (1)	10.00	H-C	-69 / 49	0.02 (4)																																																																																																																																																																							
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F-E	-775 / 0	0.0 0.0	0.57 (1)	7.81	B-H	0 / 921	0.21 (1)																																																																																																																																																																							
I-B	-902 / 0	0.0 0.0	0.09 (1)	7.81																																																																																																																																																																										
I-H	0 / 0	-18.5 -18.5	0.10 (4)	10.00																																																																																																																																																																										
H-G	0 / 906	-18.5 -18.5	0.22 (1)	10.00																																																																																																																																																																										
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LICENSED PROFESSIONAL ENGINEER

02-28-24

H. J. G. ALVES

100009024

PROVINCE OF ONTARIO

Structural component only

DWG# T-2406447



Structural component only

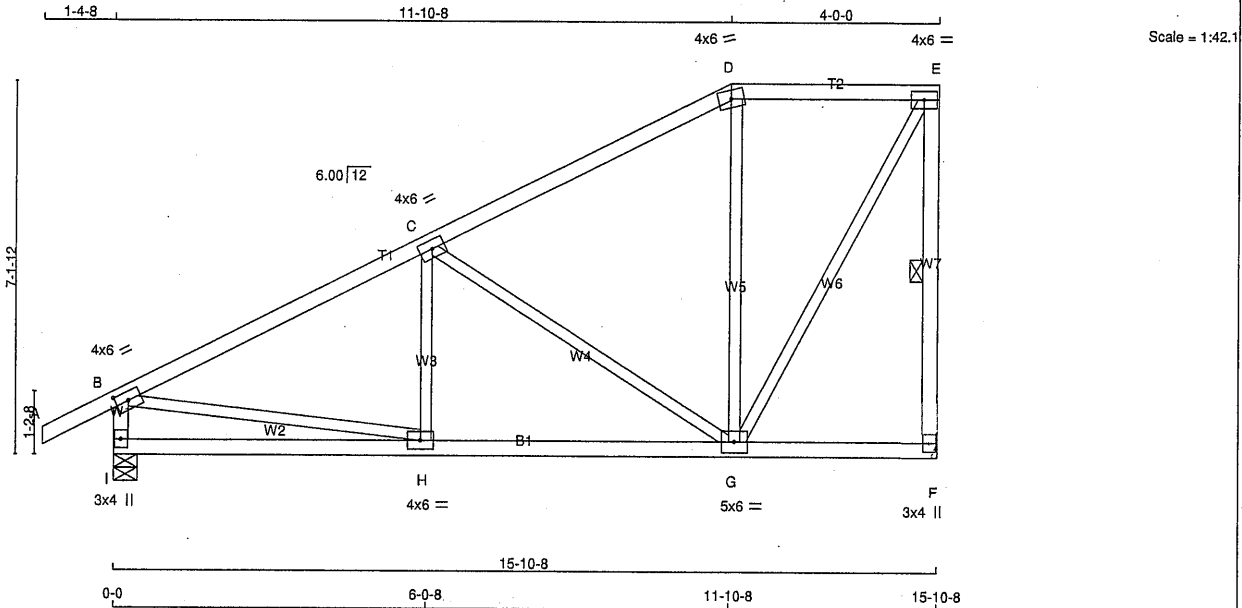
DWG# T-2406447

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T64	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 73 = 145 lb

[M/F]

LUMBER				N. L. G. A. RULES	
CHORDS	SIZE	LUMBER			
A - D	2x4	DRY	No.2		
D - E	2x4	DRY	No.2		
F - E	2x4	DRY	No.2		
I - B	2x4	DRY	No.2		
I - 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-t	MT20	4.0	6.0	2.00	3.00
C	TMWW-t	MT20	4.0	6.0		
D	TTW-m	MT20	4.0	6.0		
E	TMVW-t	MT20	4.0	6.0		
F	BMV1+p	MT20	3.0	4.0		
G	BMWW-t	MT20	5.0	6.0		
H	BMWW-t	MT20	4.0	6.0		
I	BMV1+p	MT20	3.0	4.0		

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
	FACTORED	MAXIMUM FACTORED	INPUT	REQRD					
	GROSS REACTION	GROSS REACTION	BRG	BRG					
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
F	820	0	820	0	0	MECHANICAL			
I	943	0	943	0	0	5-8	1-8		

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

UNFACTORED REACTIONS							
1ST LCASE	MAX/MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	582	370 / 0	0 / 0	0 / 0	0 / 0	213 / 0	0 / 0
I	667	437 / 0	0 / 0	0 / 0	0 / 0	230 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.79 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-F.

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

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO	CSI (LC)	FR-TO			
A-B	0 / 27	-84.9 -84.9	0.12 (1)	10.00	H-C	-8 / 94	0.03 (4)
B-C	-970 / 0	-84.9 -84.9	0.40 (1)	5.79	C-G	-639 / 0	0.62 (1)
C-D	-428 / 0	-84.9 -84.9	0.38 (1)	6.25	G-D	-176 / 0	0.16 (1)
D-E	-355 / 0	-84.9 -84.9	0.17 (1)	6.25	G-E	0 / 719	0.16 (1)
F-E	-794 / 0	0.0 0.0	0.18 (1)	6.25	B-H	0 / 901	0.20 (1)
I-B	-897 / 0	0.0 0.0	0.09 (1)	7.81			
I-H	0 / 0	-18.5 -18.5	0.16 (4)	10.00			
H-G	0 / 891	-18.5 -18.5	0.24 (4)	10.00			
G-F	0 / 0	-18.5 -18.5	0.09 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	36.7	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 , NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.53")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.53")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.40/1.00 (B-C:1) , BC=0.24/1.00 (G-H:4) , WB=0.62/1.00 (C-G:1) , SSI=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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.74 (E) (INPUT = 0.90)
JSI METAL= 0.26 (B) (INPUT = 0.95)

Structural component only
DWG# T-2406448

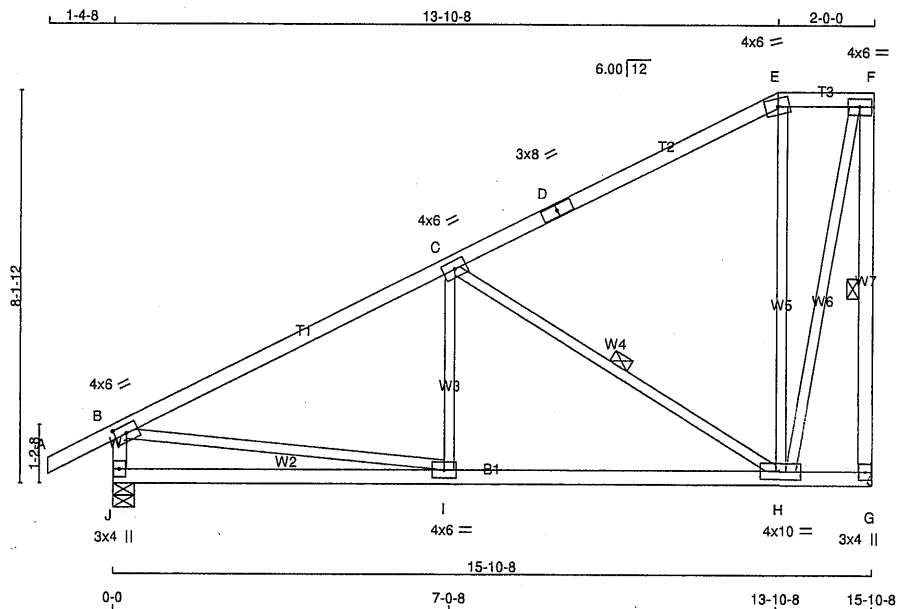


Structural component only
DWG# T-2406448

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T65	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 77 = 154 lb

[M][F]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
G - F	2x4	DRY	No.2
J - B	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-t	MT20	4.0	6.0	2.00 3.00
C	TMWW-t	MT20	4.0	6.0	
D	TS-t	MT20	3.0	8.0	
E	TTW-m	MT20	4.0	6.0	
F	TMVW-t	MT20	4.0	6.0	
G	BMV1+p	MT20	3.0	4.0	
H	BMWW-t	MT20	4.0	10.0	
I	BMWW-t	MT20	4.0	6.0	
J	BMV1+p	MT20	3.0	4.0	

NOTES: (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

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
G	820	0	820	0	0
J	943	0	943	0	0

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
G	582	370 / 0	0 / 0	0 / 0	0 / 0	213 / 0	0 / 0
J	667	437 / 0	0 / 0	0 / 0	0 / 0	230 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.56 FT.

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

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED				WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. (LC1)	MAX. (LC)	UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX. (LC)	MAX. (LC)
FR-TO						FR-TO			
A-B	0 / 27	-84.9	-84.9	0.12 (1)	10.00	I-C	0 / 129	0.04 (4)	
B-C	-931 / 0	-84.9	-84.9	0.57 (1)	5.56	C-H	-807 / 0	0.37 (1)	
C-D	-235 / 0	-84.9	-84.9	0.53 (1)	6.25	H-E	-211 / 0	0.27 (1)	
D-E	-235 / 0	-84.9	-84.9	0.53 (1)	6.25	H-F	0 / 759	0.17 (1)	
E-F	-178 / 0	-84.9	-84.9	0.04 (1)	6.25	B-I	0 / 869	0.20 (1)	
G-F	-822 / 0	0.0	0.0	0.25 (1)	6.25				
J-B	-891 / 0	0.0	0.0	0.09 (1)	7.81				

J-I	0 / 0	-18.5	-18.5	0.23 (4)	10.00
I-H	0 / 862	-18.5	-18.5	0.31 (4)	10.00
H-G	0 / 0	-18.5	-18.5	0.11 (4)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	23.3	PSF
	DL =	6.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.4	PSF
TOTAL LOAD	=	36.7	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 , NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.53")

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")

ALLOWABLE DEFL.(TL)= L/360 (0.53")

CALCULATED VERT. DEFL.(TL) = L/ 999 (0.08")

CSI: TC=0.57/1.00 (B-C:1) , BC=0.31/1.00 (H-I:4) , WB=0.37/1.00 (C-H:1) , SSI=0.26/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.25 (B) (INPUT = 0.95)

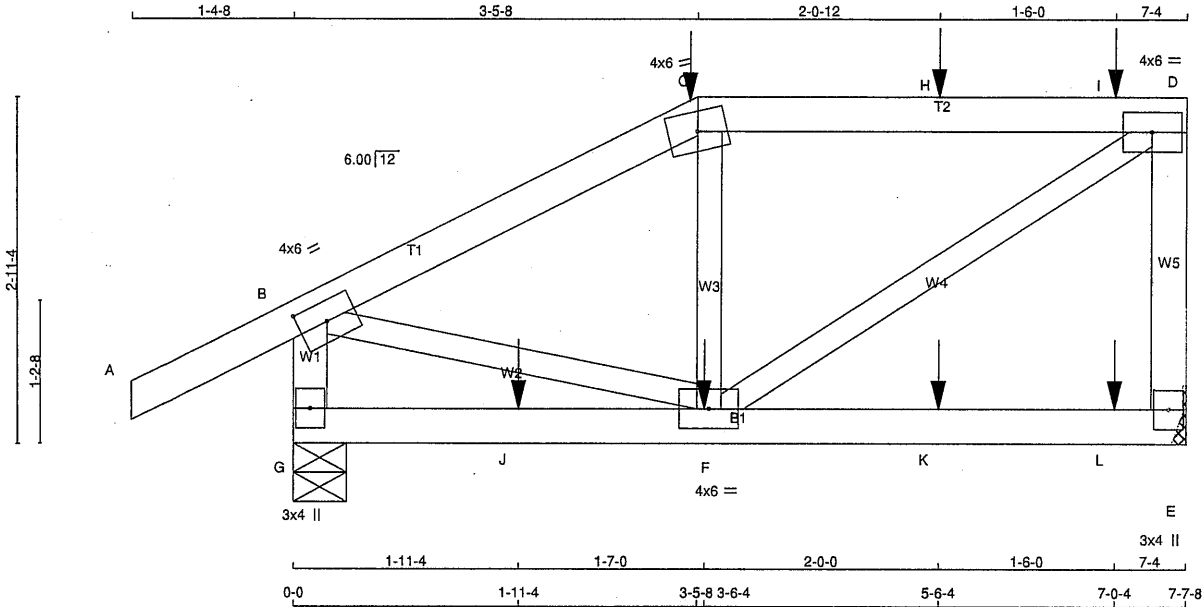


Structural component only

DWG# T-2406449

JOB NAME 425913	TRUSS NAME T66	QUANTITY 2	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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ID:sd0FDfbi38oVqvTaiRkhtSzPaod-rEjpbKbHmhZBqID3NZKVwKjgYa1jTBriZa4qx9zgavW



TOTAL WEIGHT = 2 X 31 = 63 lb [M]

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

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B TMVW-t	MT20	4.0	6.0	2.00	3.00
C TTW-m	MT20	4.0	6.0		
D TMVW-t	MT20	4.0	6.0		
E BMV1+p	MT20	3.0	4.0		
F BMVWW-t	MT20	4.0	6.0		
G BMV1+p	MT20	3.0	4.0		

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS					
	FACTORED	MAXIMUM FACTORED	INPUT	REQD	
	GROSS REACTION	GROSS REACTION	BRG	BRG	
JT	VERT	HORZ	DOWN	UP	IN-SX
E	632	0	632	0	MECHANICAL
G	665	0	665	0	5-8 1-8

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

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
E	448	287 / 0	0 / 0	0 / 0	0 / 0	161 / 0	0 / 0	
G	469	312 / 0	0 / 0	0 / 0	0 / 0	158 / 0	0 / 0	

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. FACTORED VERT. LOAD (PL)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PL)	MAX. FACTORED VERT. LOAD (PL)
FR-TO				FR-TO			
A-B	0 / 27	-84.9	-84.9 0.14 (1)	10.00	F-C	-311 / 0	0.06 (1)
B-C	-545 / 0	-84.9	-84.9 0.20 (1)	6.25	F-D	0 / 557	0.14 (1)
C-H	-464 / 0	-84.9	-84.9 0.42 (1)	6.25	B-F	0 / 502	0.12 (1)
H-I	-464 / 0	-84.9	-84.9 0.42 (1)	6.25			
I-D	-464 / 0	-84.9	-84.9 0.42 (1)	6.25			
E-D	-583 / 0	0.0	0.0 0.09 (1)	7.81			
G-B	-634 / 0	0.0	0.0 0.07 (1)	7.81			
G-J	0 / 0	-18.5	-18.5 0.11 (4)	10.00			
J-F	0 / 0	-18.5	-18.5 0.11 (4)	10.00			
F-K	0 / 0	-18.5	-18.5 0.11 (4)	10.00			
K-L	0 / 0	-18.5	-18.5 0.11 (4)	10.00			
L-E	0 / 0	-18.5	-18.5 0.11 (4)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	3-5-8	-131	-131	---	FRONT	VERT	TOTAL	---	C1
F	3-6-4	-11	-11	---	FRONT	VERT	TOTAL	---	C1
H	5-6-4	-43	-43	---	FRONT	VERT	TOTAL	---	C1
I	7-0-4	-54	-54	---	FRONT	VERT	TOTAL	---	C1
J	1-11-4	-11	-11	---	FRONT	VERT	TOTAL	---	C1
K	5-6-4	-11	-11	---	FRONT	VERT	TOTAL	---	C1
L	7-0-4	-14	-14	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	36.7	PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.42/1.00 (C-D-1), BC=0.11/1.00 (F-G-4).
WB=0.14/1.00 (D-F-1), SS=0.24/1.00 (C-D-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.67 (F) (INPUT = 0.90)
JSI METAL= 0.16 (F) (INPUT = 0.95)



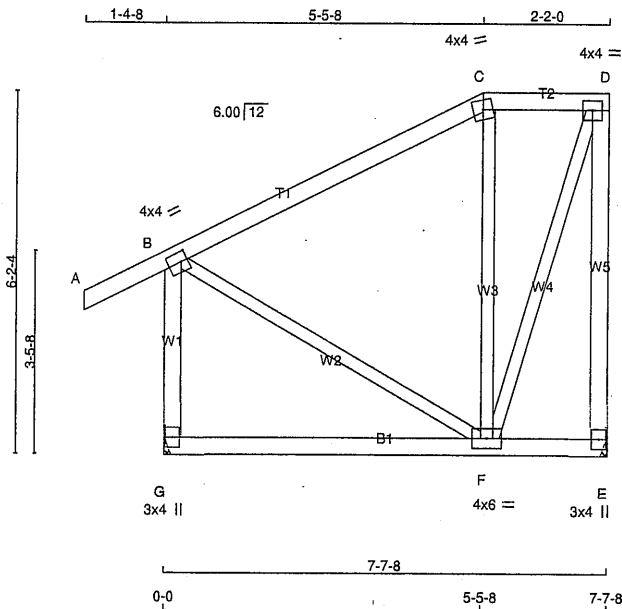
Structural component only
DWG# T-2406450

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T67	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:sd0FDfbi38oVqvTaiRkhtSzPaOd-KQHzyXkvX752RvoGxHrkTYGsm_MkCelroEqNUbzgavV



Scale = 1:37.5

LUMBER N. L. G. A. RULES <table><tr><td>CHORDS</td><td>SIZE</td><td>LUMBER</td><td>DESCR.</td></tr><tr><td>A - C</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>C - D</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>E - D</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>G - B</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>G - E</td><td>2x4</td><td>DRY</td><td>No.2</td></tr></table> ALL WEBS 2x3 DRY No.2 EXCEPT SPF DRY: SEASONED LUMBER. PLATES (table is in inches) <table><tr><td>JT TYPE</td><td>PLATES</td><td>W</td><td>LEN</td><td>Y</td><td>X</td></tr><tr><td>B TMVW-t</td><td>MT20</td><td>4.0</td><td>4.0</td><td>2.00</td><td>1.25</td></tr><tr><td>C TTW-m</td><td>MT20</td><td>4.0</td><td>4.0</td><td></td><td></td></tr><tr><td>D TMVW-t</td><td>MT20</td><td>4.0</td><td>4.0</td><td></td><td></td></tr><tr><td>E BMV1+p</td><td>MT20</td><td>3.0</td><td>4.0</td><td></td><td></td></tr><tr><td>F BMWVW-t</td><td>MT20</td><td>4.0</td><td>6.0</td><td></td><td></td></tr><tr><td>G BMV1+p</td><td>MT20</td><td>3.0</td><td>4.0</td><td></td><td></td></tr></table> NOTES: (1) 1) Lateral braces to be a minimum of 2X4 SPF #2.							CHORDS	SIZE	LUMBER	DESCR.	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	JT TYPE	PLATES	W	LEN	Y	X	B TMVW-t	MT20	4.0	4.0	2.00	1.25	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 BMWVW-t	MT20	4.0	6.0			G BMV1+p	MT20	3.0	4.0			DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><td>JT</td><td>FACTORED GROSS REACTION</td><td>MAXIMUM FACTORED GROSS REACTION</td><td>INPUT BRG</td><td>REQD BRG</td></tr><tr><td>E</td><td>394 0</td><td>394 0</td><td>0</td><td>MECHANICAL</td></tr><tr><td>G</td><td>516 0</td><td>516 0</td><td>0</td><td>MECHANICAL</td></tr></table> A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT E, G. MINIMUM BEARING LENGTH AT JOINT E = 1-8, JOINT G = 1-8. UNFACTORED REACTIONS <table><tr><td>JT</td><td>1ST LCASE COMBINED</td><td>MAX/MIN. COMPONENT REACTIONS</td><td>SNOW</td><td>LIVE</td><td>PERM.LIVE</td><td>WIND</td><td>DEAD</td><td>SOIL</td></tr><tr><td>E</td><td>280</td><td>178 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>102 / 0</td><td>0 / 0</td></tr><tr><td>G</td><td>364</td><td>245 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>119 / 0</td><td>0 / 0</td></tr></table> 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) <table><tr><td colspan="4">CHORDS</td><td colspan="4">WEBS</td></tr><tr><td>MEMB.</td><td>MAX. FACTORED FORCE (LBS)</td><td>FACTORED VERT. LOAD (PLF)</td><td>MAX. FACTORED VERT. LOAD (LC)</td><td>MEMB.</td><td>MAX. FACTORED FORCE (LBS)</td><td>MAX. FACTORED VERT. LOAD (LC)</td><td>MAX. FACTORED VERT. LOAD (LC)</td></tr><tr><td>FR-TO</td><td></td><td>FROM</td><td>TO</td><td>FR-TO</td><td></td><td>FROM</td><td>TO</td></tr><tr><td>A-B</td><td>0 / 27</td><td>-84.9</td><td>-84.9 0.12 (1)</td><td>10.00</td><td>F-C</td><td>-268 / 0</td><td>0.16 (1)</td></tr><tr><td>B-C</td><td>-125 / 0</td><td>-84.9</td><td>-84.9 0.32 (1)</td><td>6.25</td><td>F-D</td><td>0 / 324</td><td>0.07 (1)</td></tr><tr><td>C-D</td><td>-107 / 0</td><td>-84.9</td><td>-84.9 0.05 (1)</td><td>6.25</td><td>B-F</td><td>0 / 128</td><td>0.03 (1)</td></tr><tr><td>E-D</td><td>-397 / 0</td><td>0.0</td><td>0.0 0.30 (1)</td><td>7.81</td><td></td><td></td><td></td></tr><tr><td>G-B</td><td>-473 / 0</td><td>0.0</td><td>0.0 0.09 (1)</td><td>7.81</td><td></td><td></td><td></td></tr><tr><td>G-F</td><td>0 / 0</td><td>-18.5</td><td>-18.5 0.12 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>F-E</td><td>0 / 0</td><td>-18.5</td><td>-18.5 0.12 (4)</td><td>10.00</td><td></td><td></td><td></td></tr></table>							JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG	E	394 0	394 0	0	MECHANICAL	G	516 0	516 0	0	MECHANICAL	JT	1ST LCASE COMBINED	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	E	280	178 / 0	0 / 0	0 / 0	0 / 0	0 / 0	102 / 0	0 / 0	G	364	245 / 0	0 / 0	0 / 0	0 / 0	0 / 0	119 / 0	0 / 0	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)	MAX. FACTORED VERT. LOAD (LC)	FR-TO		FROM	TO	FR-TO		FROM	TO	A-B	0 / 27	-84.9	-84.9 0.12 (1)	10.00	F-C	-268 / 0	0.16 (1)	B-C	-125 / 0	-84.9	-84.9 0.32 (1)	6.25	F-D	0 / 324	0.07 (1)	C-D	-107 / 0	-84.9	-84.9 0.05 (1)	6.25	B-F	0 / 128	0.03 (1)	E-D	-397 / 0	0.0	0.0 0.30 (1)	7.81				G-B	-473 / 0	0.0	0.0 0.09 (1)	7.81				G-F	0 / 0	-18.5	-18.5 0.12 (4)	10.00				F-E	0 / 0	-18.5	-18.5 0.12 (4)	10.00				DESIGN CRITERIA SPECIFIED LOADS: <table><tr><td>TOP CH.</td><td>LL = 23.3 PSF</td></tr><tr><td></td><td>DL = 6.0 PSF</td></tr><tr><td>BOT CH.</td><td>LL = 0.0 PSF</td></tr><tr><td></td><td>DL = 7.4 PSF</td></tr><tr><td>TOTAL LOAD</td><td>= 36.7 PSF</td></tr></table> SPACING = 24.0 IN./C LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF BCBC 2018 , NBC-2019AE - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.25") CALCULATED VERT. DEFL.(LL) = L/999 (0.00") ALLOWABLE DEFL.(TL)= L/360 (0.25") CALCULATED VERT. DEFL.(TL) = L/999 (0.03") CSI: TC=0.32/1.00 (B-C:1) , BC=0.12/1.00 (F-G:4) , WB=0.16/1.00 (C-F:1) , SSI=0.16/1.00 (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 <table><tr><td>PLATE</td><td>GRIP(DRY)</td><td>SHEAR</td><td>SECTION</td></tr><tr><td></td><td>(PSI)</td><td>(PLI)</td><td>(PLI)</td></tr><tr><td></td><td>MAX</td><td>MIN</td><td>MAX MIN</td></tr><tr><td>MT20</td><td>650</td><td>371</td><td>1747 788 1987 1873</td></tr></table> PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.46 (F) (INPUT = 0.90) JSI METAL= 0.10 (F) (INPUT = 0.95)							TOP CH.	LL = 23.3 PSF		DL = 6.0 PSF	BOT CH.	LL = 0.0 PSF		DL = 7.4 PSF	TOTAL LOAD	= 36.7 PSF	PLATE	GRIP(DRY)	SHEAR	SECTION		(PSI)	(PLI)	(PLI)		MAX	MIN	MAX MIN	MT20	650	371	1747 788 1987 1873
CHORDS	SIZE	LUMBER	DESCR.																																																																																																																																																																																																																																							
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																																																																																																																																																																																																																																							
JT TYPE	PLATES	W	LEN	Y	X																																																																																																																																																																																																																																					
B TMVW-t	MT20	4.0	4.0	2.00	1.25																																																																																																																																																																																																																																					
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 BMWVW-t	MT20	4.0	6.0																																																																																																																																																																																																																																							
G BMV1+p	MT20	3.0	4.0																																																																																																																																																																																																																																							
JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG																																																																																																																																																																																																																																						
E	394 0	394 0	0	MECHANICAL																																																																																																																																																																																																																																						
G	516 0	516 0	0	MECHANICAL																																																																																																																																																																																																																																						
JT	1ST LCASE COMBINED	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL																																																																																																																																																																																																																																		
E	280	178 / 0	0 / 0	0 / 0	0 / 0	0 / 0	102 / 0	0 / 0																																																																																																																																																																																																																																		
G	364	245 / 0	0 / 0	0 / 0	0 / 0	0 / 0	119 / 0	0 / 0																																																																																																																																																																																																																																		
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)	MAX. FACTORED VERT. LOAD (LC)																																																																																																																																																																																																																																			
FR-TO		FROM	TO	FR-TO		FROM	TO																																																																																																																																																																																																																																			
A-B	0 / 27	-84.9	-84.9 0.12 (1)	10.00	F-C	-268 / 0	0.16 (1)																																																																																																																																																																																																																																			
B-C	-125 / 0	-84.9	-84.9 0.32 (1)	6.25	F-D	0 / 324	0.07 (1)																																																																																																																																																																																																																																			
C-D	-107 / 0	-84.9	-84.9 0.05 (1)	6.25	B-F	0 / 128	0.03 (1)																																																																																																																																																																																																																																			
E-D	-397 / 0	0.0	0.0 0.30 (1)	7.81																																																																																																																																																																																																																																						
G-B	-473 / 0	0.0	0.0 0.09 (1)	7.81																																																																																																																																																																																																																																						
G-F	0 / 0	-18.5	-18.5 0.12 (4)	10.00																																																																																																																																																																																																																																						
F-E	0 / 0	-18.5	-18.5 0.12 (4)	10.00																																																																																																																																																																																																																																						
TOP CH.	LL = 23.3 PSF																																																																																																																																																																																																																																									
	DL = 6.0 PSF																																																																																																																																																																																																																																									
BOT CH.	LL = 0.0 PSF																																																																																																																																																																																																																																									
	DL = 7.4 PSF																																																																																																																																																																																																																																									
TOTAL LOAD	= 36.7 PSF																																																																																																																																																																																																																																									
PLATE	GRIP(DRY)	SHEAR	SECTION																																																																																																																																																																																																																																							
	(PSI)	(PLI)	(PLI)																																																																																																																																																																																																																																							
	MAX	MIN	MAX MIN																																																																																																																																																																																																																																							
MT20	650	371	1747 788 1987 1873																																																																																																																																																																																																																																							

LICENSED PROFESSIONAL ENGINEER

02-28-24

H. J. G. ALVES

100009024

PROVINCE OF ONTARIO

Structural component only

DWG# T-2406451

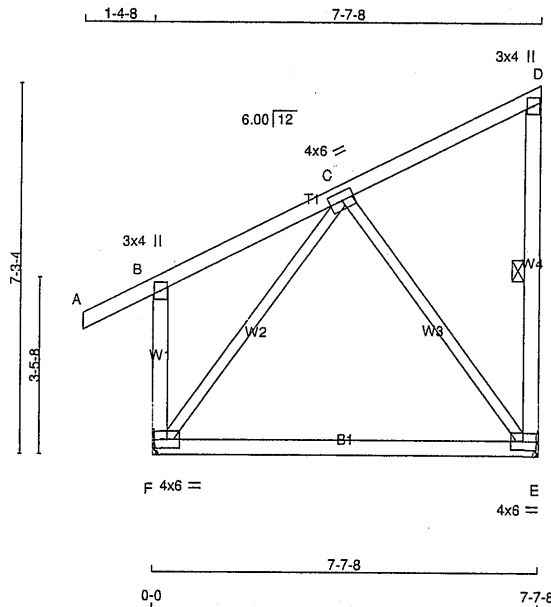


Structural component only
DWG# T-2406451

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T68	4	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Wed Feb 28 15:03:43 2024 Page 1
ID:VI_DQv1e49Qy7axT?i10OzOYuG-ocrL9tXIIdv33NSV_Mz?l63lOeqx5O?1uZx01zgavU



Scale = 1:43.2

SHEET TOTALS = 4 X 41 = 164 lb

(M/F)

LUMBER					DESCR.	
N. L. G. A. RULES						
CHORDS	SIZE		LUMBER			
A - D	2x4	DRY	No.2		SPF	
E - D	2x4	DRY	No.2		SPF	
F - B	2x4	DRY	No.2		SPF	
F - E	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	TMV+p	MT20	3.0	4.0		
C	TMVW-t	MT20	4.0	6.0		
D	TMV+p	MT20	3.0	4.0		
E	BMVW1-t	MT20	4.0	6.0		
F	BMVW1-t	MT20	4.0	6.0		

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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		IN-SX	IN-SX
	VERT	HORZ	DOWN	HORZ		UPLIFT			
E	394	0	394	0	0			MECHANICAL	
F	516	0	516	0	0			MECHANICAL	
A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT E, F. MINIMUM BEARING LENGTH AT JOINT E = 1-8, JOINT F = 1-8.									

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	280	178 / 0	0 / 0	0 / 0	0 / 0	102 / 0	0 / 0
F	364	245 / 0	0 / 0	0 / 0	0 / 0	119 / 0	0 / 0

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

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

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD (PLF)		MAX. UNBRACED LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)		MAX. FACTORED FORCE (LBS)
	FORCE		LC1	MAX			FORCE		
FR-TO									
A-B	0 / 27	-84.9	-84.9	0.12 (1)	10.00	C-E	-249 / 0		0.17 (1)
B-C	0 / 18	-84.9	-84.9	0.21 (1)	10.00	F-C	-257 / 0		0.17 (1)
C-D	-17 / 0	-84.9	-84.9	0.16 (1)	6.25				
E-D	-127 / 0	0.0	0.0	0.03 (1)	6.25				
F-B	-240 / 0	0.0	0.0	0.05 (1)	7.81				
F-E	0 / 153	-18.5	-18.5	0.32 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(TL)= L/360 (0.25")
CALCULATED VERT. DEFL.(TL) = L/ 600 (0.15")

CSI: TC=0.21/1.00 (B-C:1) , BC=0.32/1.00 (E-F:4) , WB=0.17/1.00 (C-E:1) , SSI=0.14/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.16 (F) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 0.95)

Structural component only
DRWG# T-2406452



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T69	2	3	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MTEK Industries, Inc. Wed Feb 28 15:03:46 2024 Page 2

ID:sd0FDfbi38oVqvTaiRkhtSzPAoD-CBWUovnvQbDbUwX51A6wqdOQSibch8LsRjsobdMzqavR

O-N 2 12
WEBS : (0.122"x3") SPIRAL NAILS
C-X 1 4
2x4 1 6
2x6 2 6
2x8 2 6

TOP
SIDE(25.9)

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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

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

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	TMBMW1-I	MT20	10.0	16.0	4.00	0.50
C	TMVWW-t	MT20	8.0	9.0	3.75	4.00
D	TS-t	MT20	5.0	8.0		
E	TTWW-m	MT20	8.0	9.0	4.00	3.25
F	TMVWW-t	MT20	4.0	6.0		
G	TS-t	MT20	5.0	8.0		
H	TMV-w	MT20	4.0	6.0		
I	TMVW-t	MT20	5.0	6.0	2.50	2.75
J	TTWWWW-m	MT20	8.0	12.0	3.00	4.25
K	TMV-p	MT20	4.0	6.0		
L	TMVW-p	MT20	6.0	12.0	2.00	6.00
N	BMV1-p	MT20	4.0	6.0		
O	BVMVWWV-I	MT20	10.0	16.0	5.00	6.75
P	BMV-p	MT20	4.0	6.0		
Q	BMVW-t	MT20	8.0	12.0	4.00	5.75
R	BMVW-t	MT20	6.0	7.0	2.50	2.50
S	BS-t	MT18HS	6.0	14.0		
T	BMVWW-t	MT20	6.0	10.0		
U	BMVW-t	MT20	5.0	6.0	2.50	2.75
V	BS-t	MT18HS	6.0	14.0		
W	BMVW-t	MT20	4.0	6.0		
X	BMV-w	MT20	4.0	6.0		

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

LOADING									
TOTAL LOAD CASES: (18)									
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			
AF-AG	-2084 / 26070	-39.5 -39.5	0.62 (2)		6.25				
AG-AH	-2084 / 26070	-39.5 -39.5	0.62 (2)		6.25				
AH-T	-2084 / 26070	-39.5 -39.5	0.62 (2)		6.25				
T-S	-1689 / 21522	-39.5 -39.5	0.55 (2)		6.25				
S-AI	-1689 / 21522	-39.5 -39.5	0.55 (2)		6.25				
AI-AJ	-1689 / 21522	-39.5 -39.5	0.55 (2)		6.25				
AJ-AK	-1689 / 21522	-39.5 -39.5	0.55 (2)		6.25				
AK-R	-1689 / 21522	-39.5 -39.5	0.55 (2)		6.25				
R-AL	-975 / 13198	-39.5 -39.5	0.45 (3)		6.25				
AL-AM	-975 / 13198	-39.5 -39.5	0.45 (3)		6.25				
AM-AN	-975 / 13198	-39.5 -39.5	0.45 (3)		6.25				
AN-Q	-975 / 13198	-39.5 -39.5	0.45 (3)		6.25				
Q-AO	-51 / 539	-39.5 -39.5	0.23 (3)		6.25				
AO-P	-51 / 539	-39.5 -39.5	0.23 (3)		6.25				
P-O	0 / 452	0.0 0.0	0.29 (3)		10.00				
O-K	-4 / 484	0.0 0.0	0.28 (2)		10.00				
O-N	-7 / 15	-39.5 -39.5	0.03 (17)		10.00				
SPECIFIED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
P	45-10-4	-439	-439	---	FRONT	VERT	TOTAL	---	C1
Q	42-0-12	-265	-265	---	FRONT	VERT	TOTAL	---	C1
T	28-7-12	-568	-568	---	FRONT	VERT	TOTAL	---	C1
U	21-11-4	-568	-568	---	FRONT	VERT	TOTAL	---	C1
V	15-11-4	-568	-568	---	FRONT	VERT	TOTAL	---	C1
X	8-0-0	-1587	-1587	---	FRONT	VERT	TOTAL	---	C1
AA	9-11-4	-572	-572	---	FRONT	VERT	TOTAL	---	C1
AB	11-11-4	-572	-572	---	FRONT	VERT	TOTAL	---	C1
AC	13-11-4	-572	-572	---	FRONT	VERT	TOTAL	---	C1
AD	17-11-4	-568	-568	---	FRONT	VERT	TOTAL	---	C1
AE	19-11-4	-568	-568	---	FRONT	VERT	TOTAL	---	C1
AF	23-11-4	-568	-568	---	FRONT	VERT	TOTAL	---	C1
AG	24-7-12	-568	-568	---	FRONT	VERT	TOTAL	---	C1
AH	26-7-12	-568	-568	---	FRONT	VERT	TOTAL	---	C1
AI	30-7-12	-568	-568	---	FRONT	VERT	TOTAL	---	C1
AJ	32-7-12	-568	-568	---	FRONT	VERT	TOTAL	---	C1
AK	34-7-12	-568	-568	---	FRONT	VERT	TOTAL	---	C1
AL	36-7-12	-568	-568	---	FRONT	VERT	TOTAL	---	C1
AM	38-7-12	-1107	-1107	---	FRONT	VERT	TOTAL	---	C1
AN	40-0-12	-265	-265	---	FRONT	VERT	TOTAL	---	C1
AO	44-0-12	-265	-265	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2.(8)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.2) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpCg, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM).INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.

Structural component only
DWG# T-2406453

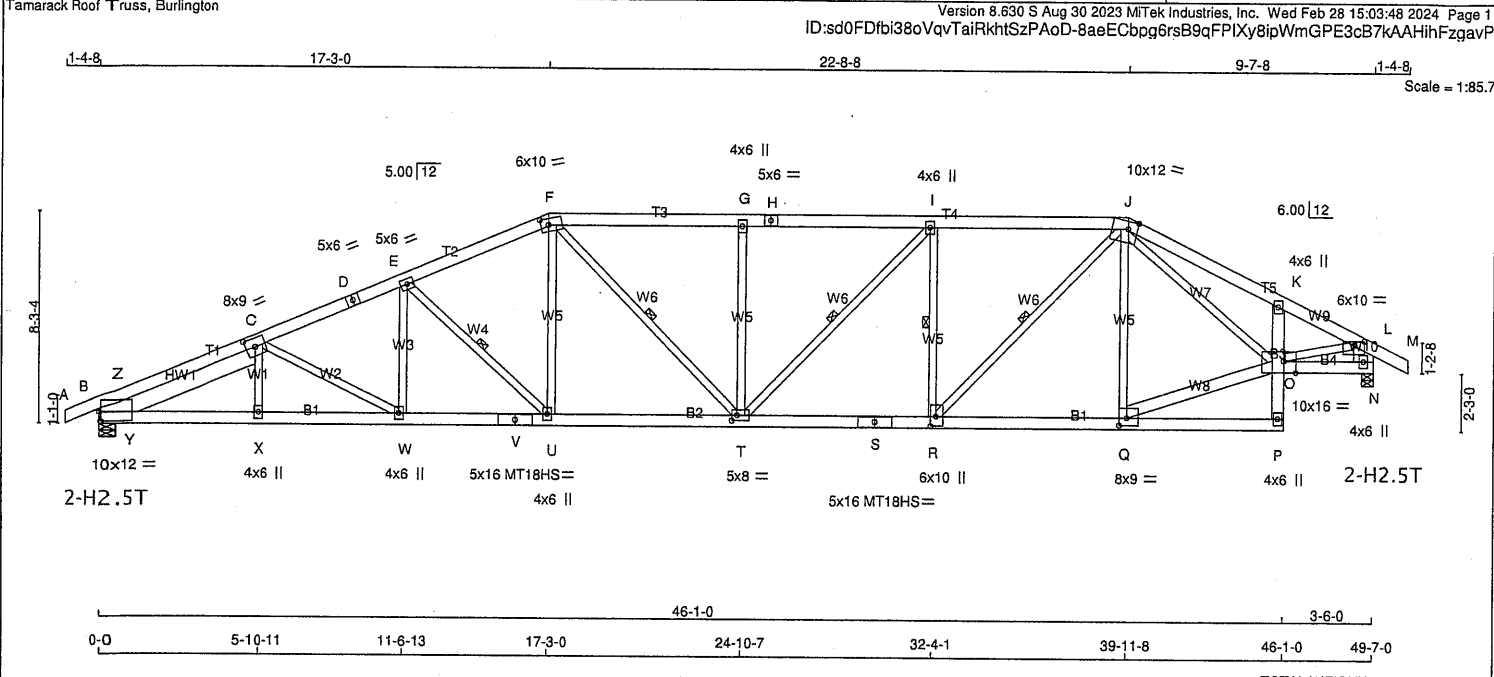
NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.



Structural component only

DWG# T-2406453



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - D 2x6 DRY No.2 SPF D - F 2x6 DRY No.2 SPF F - H 2x6 DRY No.2 SPF H - J 2x6 DRY No.2 SPF J - M 2x6 DRY No.2 SPF N - L 2x10 DRY No.2 SPF B - V 2x6 DRY No.2 SPF V - S 2x6 DRY No.2 SPF S - P 2x6 DRY No.2 SPF P - K 2x6 DRY No.2 SPF O - N 2x6 DRY No.2 SPF REINFORCING MEMBERS HW1 2x8 DRY No.2 SPF ALL WEBS 2x4 DRY No.2 SPF EXCEPT Q - O 2x6 DRY No.2 SPF DRY: SEASONED LUMBER.			DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION MAXIMUM FACTORED INPUT REQ'D JT VERT HORZ DOWN HORZ UPLIFT IN-SX BRG IN-SX B 3742 0 4070 271 -1204 5-8 4-7 N 3743 0 3652 0 -1155 5-8 4-3 PROVIDE ANCHORAGE AT BEARING JOINT B FOR 1204 LBS FACTORED UPLIFT PROVIDE ANCHORAGE AT BEARING JOINT N FOR 1155 LBS FACTORED UPLIFT PROVIDE FOR 271 LBS FACTORED HORIZONTAL REACTION AT JOINT B UNFACTORED REACTIONS 1ST LCASE MAX/MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL B 2782 1798 / 0 521 / 0 0 / 0 0 / -1188 682 / 0 0 / 0 N 2783 1652 / 0 521 / 0 0 / 0 0 / -1153 682 / 0 0 / 0 HORIZONTAL REACTIONS B --- 0 / 0 0 / 0 0 / 0 194 / -48 0 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, N BRACING MAX. UNBRACED TOP CHORD LENGTH = 2.92 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 5.58 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-U, J-R, F-T, I-R, I-T. 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: (18) CHORDS MEMB. MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) MAX. CS (LC) UNBRAC LENGTH FR-TO A-B 0 / 0 -105.2 -105.2 0.09 (2) 10.00 B-Z -5235 / 1506 -105.2 -105.2 0.23 (2) 3.69 Z-C -3979 / 1278 -105.2 -105.2 0.25 (2) 4.14 C-D -6904 / 2140 -105.2 -105.2 0.55 (2) 2.98 D-E -6904 / 2140 -105.2 -105.2 0.55 (2) 2.98 E-F -6026 / 1949 -105.2 -105.2 0.48 (2) 3.25 F-G -6116 / 2036 -105.2 -105.2 0.76 (2) 2.94 G-H -6116 / 2036 -105.2 -105.2 0.77 (2) 2.92 H-I -6116 / 2036 -105.2 -105.2 0.77 (2) 2.92 I-J -5434 / 1825 -105.2 -105.2 0.71 (2) 3.15 J-K -5328 / 1846 -105.2 -105.2 0.50 (3) 3.39 K-L -5502 / 1713 -105.2 -105.2 0.28 (14) 3.57 L-M 0 / 40 -105.2 -105.2 0.09 (3) 10.00 N-L -3778 / 1172 0.0 0.0 0.14 (3) 6.83 WEBS MEMB. MAX. FACTORED FORCE (LBS) MAX. CS (LC) UNBRAC LENGTH FR-TO X-C 0 / 277 0.05 (17) C-W -282 / 231 0.14 (2) W-E -31 / 388 0.06 (5) E-U -1160 / 479 0.34 (2) U-F -273 / 1074 0.23 (13) F-Q -964 / 409 0.82 (3) Q-R -861 / 2780 0.51 (13) R-I -421 / 1387 0.25 (14) I-T -1707 / 687 0.48 (2) T-G -992 / 464 0.84 (3) G-J -305 / 986 0.18 (13) J-O -998 / 3667 0.43 (3) O-L -583 / 1544 0.53 (14) L-H -1468 / 5033 0.81 (3) H-Y -396 / 1840 0.00 (1) Y-C -3482 / 943 0.82 (2) B-Y -1319 / 3674 -39.5 -39.5 0.49 (2) 6.25 Y-X -2122 / 6639 -39.5 -39.5 0.89 (2) 5.58 X-W -2123 / 6633 -39.5 -39.5 0.88 (2) 5.58 W-V -1972 / 6386 -39.5 -39.5 0.86 (2) 5.75 V-U -1972 / 6386 -39.5 -39.5 0.86 (2) 5.75 U-T -1627 / 5557 -39.5 -39.5 0.76 (2) 6.16 T-S -1584 / 5435 -39.5 -39.5 0.74 (2) 6.22 S-R -1584 / 5435 -39.5 -39.5 0.74 (2) 6.22 R-Q -982 / 3607 -39.5 -39.5 0.57 (3) 6.25 Q-P -63 / 189 -39.5 -39.5 0.20 (4) 6.25 P-O 0 / 111 0.0 0.0 0.29 (3) 10.00 O-K -600 / 398 0.0 0.0 0.29 (3) 7.81 O-N -7 / 15 -39.5 -39.5 0.06 (17) 10.00			DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 30.1 PSF DL = 6.0 PSF BOT CH. LL = 10.5 PSF DL = 7.4 PSF TOTAL LOAD = 54.0 PSF SPACING = 24.0 IN. C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 5.00/12 THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015 THIS DESIGN COMPLIES WITH: - PART 4 OF BCBC 2018, NBC-2019AE - PART 4 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 DESIGN ASSUMPTIONS - SLOPE REDUCTION FACTOR NOT USED (80 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 30.1 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL) = L/360 (1.65") CALCULATED VERT. DEFL.(LL) = L/999 (0.33") ALLOWABLE DEFL.(TL) = L/180 (3.31") CALCULATED VERT. DEFL.(TL) = L/999 (0.46") CSI: TO=0.77/1.00 (G-T-2), BC=0.89/1.00 (X-Y-2), WB=0.84/1.00 (G-T-3), SSI=0.33/1.00 (I-J-3) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 SNOW LOAD IMPORTANCE FACTOR = 1.00 WIND LOAD IMPORTANCE FACTOR = 1.00 LIVE LOAD IMPORTANCE FACTOR = 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 650 371 1747 788 1987 1873 MT18HS 586 403 2455 1382 3163 3004 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.80 (B) (INPUT= 0.90) JSI METAL= 0.75 (B) (INPUT= 0.95)		
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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T70	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
V	BS-t	MT18HS	5.0	16.0		
W	BMWw+t	MT20	4.0	6.0		
X	BMW+w	MT20	4.0	6.0		

NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING

AS PER NBCC 4.1.6.2.(8)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.2) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpCg, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM).INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE.TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only

DWG# T-2406454

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T71	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Wed Feb 28 15:03:49 2024 Page 2
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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
V	BMWWW-t	MT20	5.0	8.0		
W	BMWW+t	MT20	4.0	6.0		
X	BS-t	MT18HS	5.0	16.0		
Y	BMWW+t	MT20	4.0	6.0		
Z	BMW+w	MT20	4.0	6.0		

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

**TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING
AS PER NBCC 4.1.6.2.(8)**

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF { 9.2} PSF AT
(30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK
COEFFICIENTS, CpCg, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM),INTERNAL
WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON
(OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY
FROM EAVE.TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0
PSF AND 5.0 PSF RESPECTIVELY.



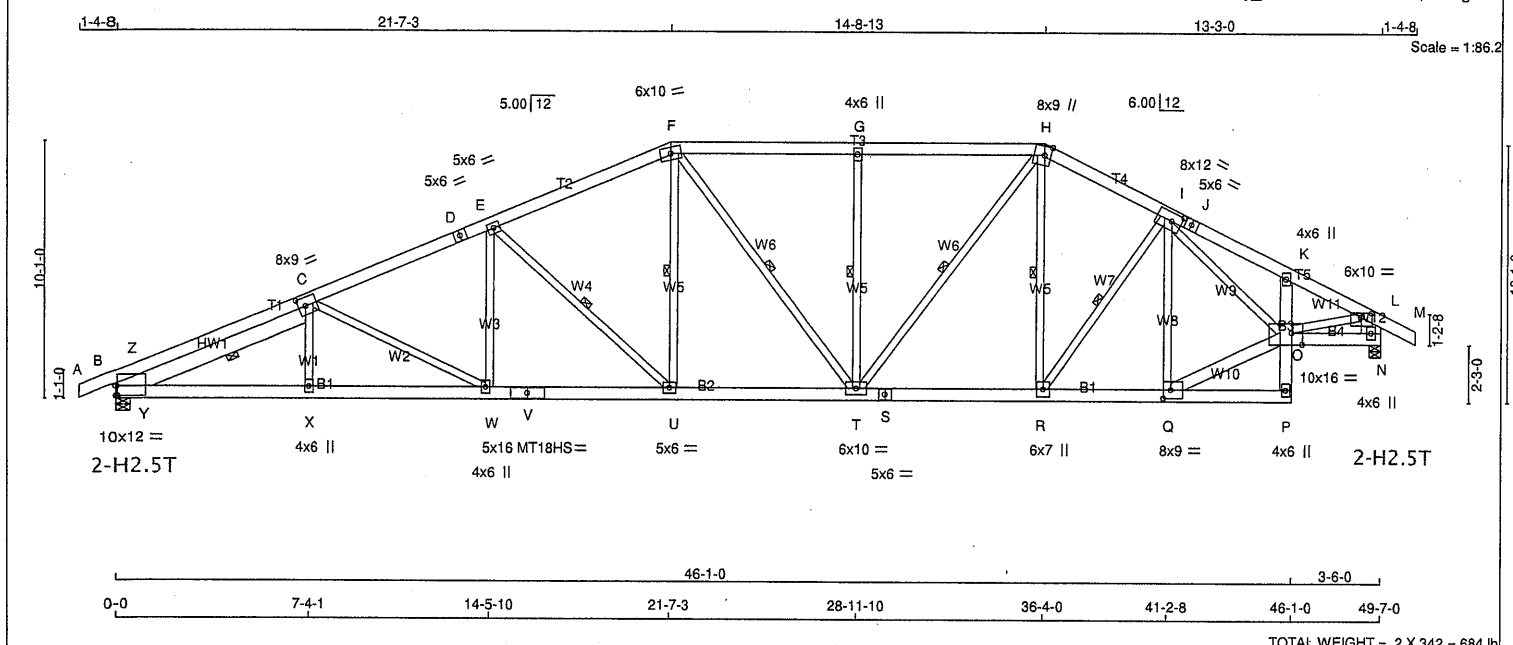
Structural component only
DWG# T-2406455

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T72	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	T72	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023
MiTek Industries, Inc.
Wed Feb 28 15:03:50 2024
Page 2
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PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
U	BMWw-t	MT20	5.0	6.0		
V	BS-t	MT18HS	5.0	16.0		
W	BMWw+t	MT20	4.0	6.0		
X	BMW+w	MT20	4.0	6.0		

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

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING
AS PER NBCC 4.1.6.2.(8)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.2) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpCg, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.

LICENSED PROFESSIONAL ENGINEER

02-28-24

H. J. G. ALVES

100009024

PROVINCE OF ONTARIO

Structural component only
DWG# T-2406456

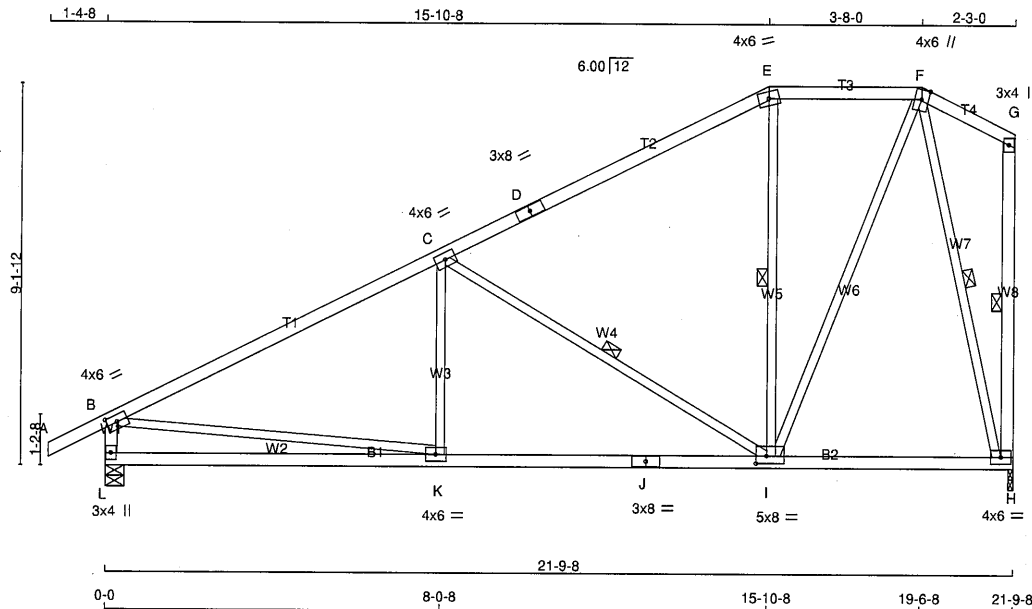


Structural component only
DWG# T-2406456

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T76	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 103 lb
[M][F]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	6.0	2.00	3.00
C	TMWW-t	MT20	4.0	6.0		
D	TS-t	MT20	3.0	8.0		
E	TTW-m	MT20	4.0	6.0		
F	TTWW+m	MT20	4.0	6.0	Edge	
G	TMV+p	MT20	3.0	4.0		
H	BMVW1-t	MT20	4.0	6.0		
I	BMWW-t	MT20	5.0	8.0	2.25	3.00
J	BS-t	MT20	3.0	8.0		
K	BMWW-t	MT20	4.0	6.0		
L	BMV1+p	MT20	3.0	4.0		

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

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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
	VERT	HORZ	DOWN	HORZ
JT				
L	1248	0	1248	0
H	1126	0	1126	0

UNFACTORED REACTIONS

	1ST LCASE	MAX/MIN.	COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
JT								
L	884	575 / 0	0 / 0	0 / 0	0 / 0	309 / 0	0 / 0	
H	799	507 / 0	0 / 0	0 / 0	0 / 0	292 / 0	0 / 0	

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.20 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-I, E-I, G-H, F-H.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	CS1 (LC)	UNBRAC LENGTH	FR-TO	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CS1 (LC)
A-B		0 / 27	-84.9	-84.9	0.12 (1)	10.00	K-C	0 / 136		0.05 (4)	
B-C		-1437 / 0	-84.9	-84.9	0.81 (1)	4.20	C-I	-902 / 0		0.56 (1)	
C-D		-654 / 0	-84.9	-84.9	0.73 (1)	5.83	I-E	-128 / 23		0.07 (1)	
D-E		-654 / 0	-84.9	-84.9	0.73 (1)	5.83	B-K	0 / 1326		0.30 (1)	
E-F		-550 / 0	-84.9	-84.9	0.15 (1)	6.25	I-F	0 / 797		0.18 (1)	
F-G		0 / 0	-84.9	-84.9	0.07 (1)	10.00	F-H	-1022 / 0		0.59 (1)	
L-B		-1188 / 0	0.0	0.0	0.12 (1)	7.32					
H-G		-95 / 0	0.0	0.0	0.03 (1)	6.25					
L-K		0 / 0	-18.5	-18.5	0.29 (4)	10.00					
K-J		0 / 1318	-18.5	-18.5	0.41 (4)	10.00					
J-I		0 / 1318	-18.5	-18.5	0.41 (4)	10.00					
I-H		0 / 252	-18.5	-18.5	0.21 (4)	10.00					

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	23.3	PSF
	DL =	6.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.4	PSF
TOTAL LOAD	=	36.7	PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CS1: TC=0.81/1.00 (B-C:1), BC=0.41/1.00 (I-K:4), WB=0.59/1.00 (F-H:1), SSI=0.30/1.00 (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 LEFT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.75 (K) (INPUT = 0.90)
JSI METAL= 0.49 (J) (INPUT = 0.95)



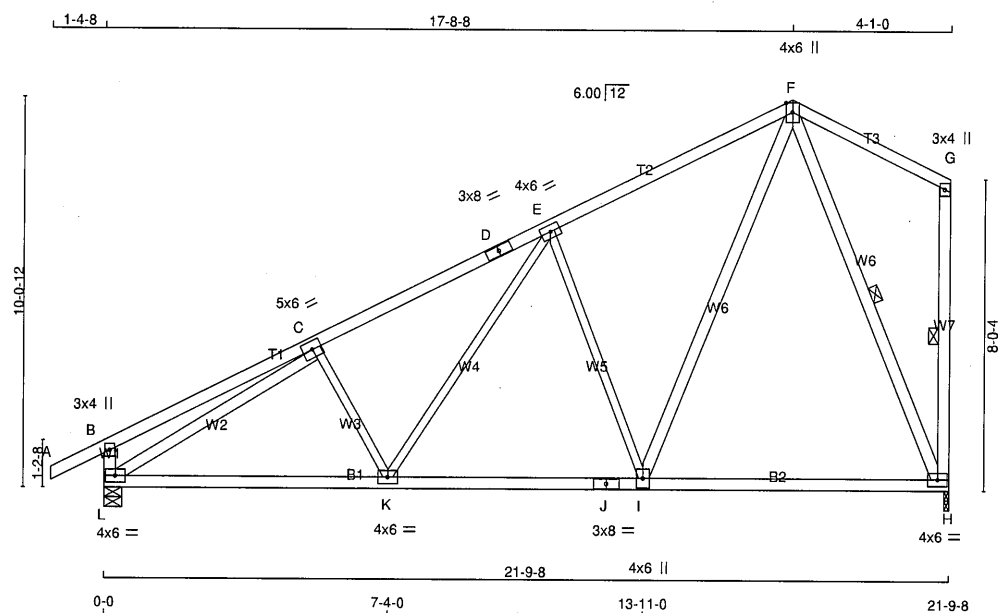
Structural component only
DWG# T-2406466

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T77	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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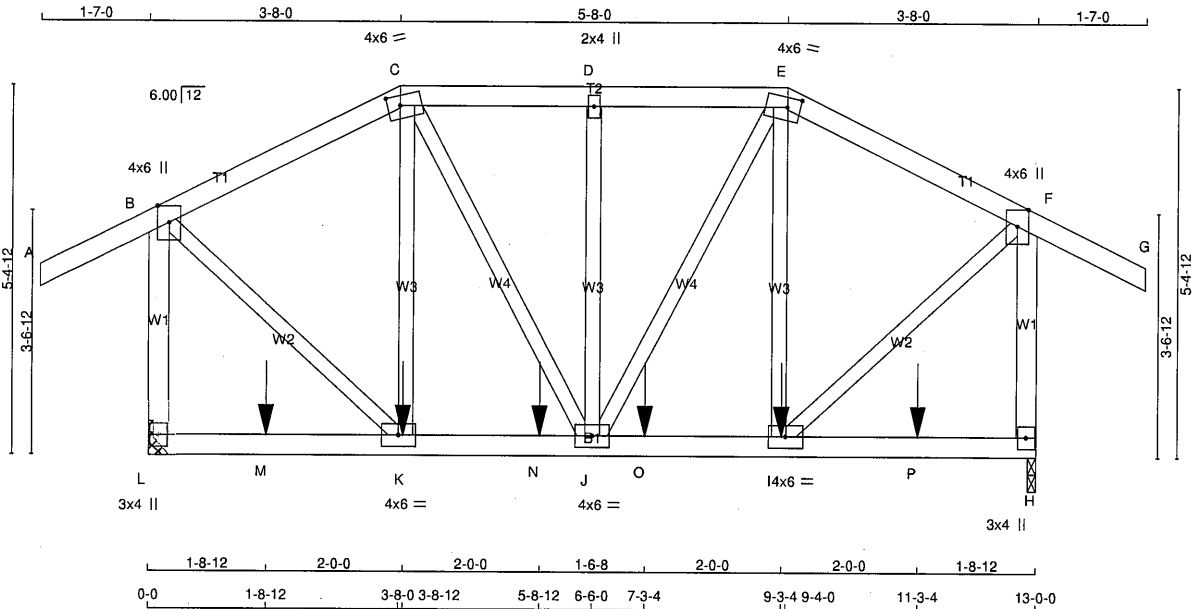


TOTAL WEIGHT = 109 lb									
[M][F]									
DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
FACTORED GROSS REACTION									
MAXIMUM FACTORED GROSS REACTION									
INPUT BRG									
REQRD BRG									
JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX									
L 1248 0 1248 0 0 5-8 1-8									
H 1126 0 1126 0 0 1-8 1-8									
UNFACTORED REACTIONS									
1ST LCASE MAX/MIN COMPONENT REACTIONS									
JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL									
L 884 575 / 0 0 / 0 0 / 0 309 / 0 0 / 0									
H 799 507 / 0 0 / 0 0 / 0 292 / 0 0 / 0									
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) L, H									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.16 FT.									
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.									
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.									
1 LATERAL BRACE(S) AT 1/2 LENGTH OF G-H, F-H.									
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW									
LOADING									
TOTAL LOAD CASES: (4)									
CHORDS									
MEMB. MAX. FACTORED FORCE (LBS)									
FACTORED VERT. LOAD LC1 MAX (PLF) CSI (LC)									
UNBRAC LENGTH FR-TO									
MEMB. MAX. FACTORED FORCE (LBS)									
MAX. CSI (LC)									
FR-TO									
A-B 0 / 27 -84.9 -84.9 0.12 (1) 10.00									
B-C 0 / 21 -84.9 -84.9 0.34 (1) 10.00									
C-D -1335 / 0 -84.9 -84.9 0.39 (1) 5.16									
D-E -1335 / 0 -84.9 -84.9 0.39 (1) 5.16									
E-F -819 / 0 -84.9 -84.9 0.40 (1) 6.17									
F-G 0 / 0 -84.9 -84.9 0.24 (1) 10.00									
L-B -302 / 0 0.0 0.0 0.03 (1) 7.81									
H-G -173 / 0 0.0 0.0 0.05 (1) 6.25									
L-K 0 / 1329 -18.5 -18.5 0.34 (1) 10.00									
K-J 0 / 970 -18.5 -18.5 0.33 (4) 10.00									
J-I 0 / 970 -18.5 -18.5 0.33 (4) 10.00									
I-H 0 / 374 -18.5 -18.5 0.27 (4) 10.00									
LUMBER									
N. L. G. A. RULES									
CHORDS SIZE LUMBER DESCR.									
A - D 2x4 DRY No.2 SPF									
D - F 2x4 DRY No.2 SPF									
F - G 2x4 DRY No.2 SPF									
L - B 2x4 DRY No.2 SPF									
H - G 2x4 DRY No.2 SPF									
L - J 2x4 DRY No.2 SPF									
J - H 2x4 DRY No.2 SPF									
ALL WEBS 2x4 DRY No.2 SPF									
EXCEPT									
C - K 2x3 DRY No.2 SPF									
K - E 2x3 DRY No.2 SPF									
E - I 2x3 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 TS-t MT20 3.0 8.0									
E TMWW-t MT20 4.0 6.0									
F TTWW+p MT20 4.0 6.0 Edge									
G TMV+p MT20 3.0 4.0									
H BMVW1-t MT20 4.0 6.0									
I BMWW+t MT20 4.0 6.0									
J BS-t MT20 3.0 8.0									
K BMWW-t MT20 4.0 6.0									
L BMVW1-t MT20 4.0 6.0									
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.									
NOTES- (1)									
1) Lateral braces to be a minimum of 2X4 SPF #2.									
DESIGN CRITERIA									
SPECIFIED LOADS:									
TOP CH. LL = 23.3 PSF									
DL = 6.0 PSF									
BOT CH. LL = 0.0 PSF									
DL = 7.4 PSF									
TOTAL LOAD = 36.7 PSF									
SPACING = 24.0 IN. C/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 , NBC-2019AE									
- PART 9 OF OBC 2012 (2019 AMENDMENT)									
- CSA 086-14									
- TPIC 2014									
(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD									
ALLOWABLE DEFL.(LL)= L/360 (0.73")									
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")									
ALLOWABLE DEFL.(TL)= L/360 (0.73")									
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.13")									
CSI: TC=0.40/1.00 (E-F:1) , BC=0.34/1.00 (K-L:1) , WB=0.82/1.00 (C-L:1) , SSI=0.22/1.00 (E-F:1)									
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10									
COMPANION LIVE LOAD FACTOR = 1.00									
AUTOSOLVE HEELS OFF									
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .									
NAIL VALUES									
PLATE GRIP(DRY) SHEAR SECTION									
(PSI) (PLI) (PLI)									
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= 0.76 (L) (INPUT = 0.90)									
JSI METAL= 0.40 (J) (INPUT = 0.95)									
STRUCTURAL COMPONENT ONLY									
DWG# T-2406467									

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T78	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale: 3/8"=1'

TOTAL WEIGHT = 70 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	6.0	Edge	
C	TTWW-m	MT20	4.0	6.0	1.75	2.25
D	TMW+w	MT20	2.0	4.0		
E	TTWW-m	MT20	4.0	6.0	1.75	2.25
F	TMVW+p	MT20	4.0	6.0	Edge	
H	BMV1+p	MT20	3.0	4.0		
I	BMVW-t	MT20	4.0	6.0		
J	BMVW-t	MT20	4.0	6.0		
K	BMVW-t	MT20	4.0	6.0		
L	BMV1+p	MT20	3.0	4.0		

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

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD					
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
L	1348	0	1348	0	0	MECHANICAL			
H	1348	0	1348	0	0	1-8	1-8		

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

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	950	645 / 0	0 / 0	0 / 0	0 / 0	304 / 0	0 / 0
H	950	645 / 0	0 / 0	0 / 0	0 / 0	304 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	
FR-TO		FROM TO	LENGTH FR-TO				
A-B	0 / 31	-84.9 -84.9	0.18 (1)	10.00	K-C	-174 / 0	0.08 (1)
B-C	-781 / 0	-84.9 -84.9	0.23 (1)	6.25	C-J	0 / 310	0.08 (1)
C-D	-845 / 0	-84.9 -84.9	0.11 (1)	6.25	J-D	-284 / 0	0.13 (1)
D-E	-845 / 0	-84.9 -84.9	0.11 (1)	6.25	J-E	0 / 310	0.08 (1)
E-F	-781 / 0	-84.9 -84.9	0.23 (1)	6.25	I-E	-174 / 0	0.08 (1)
F-G	0 / 31	-84.9 -84.9	0.18 (1)	10.00	B-K	0 / 922	0.23 (1)
L-B	-1248 / 0	0.0 0.0	0.27 (1)	7.16	I-F	0 / 922	0.23 (1)
H-F	-1248 / 0	0.0 0.0	0.27 (1)	7.16			
L-M	0 / 0	-18.5 -18.5	0.22 (1)	10.00			
M-K	0 / 0	-18.5 -18.5	0.22 (1)	10.00			
K-N	0 / 694	-18.5 -18.5	0.28 (1)	10.00			
N-J	0 / 694	-18.5 -18.5	0.28 (1)	10.00			
J-O	0 / 694	-18.5 -18.5	0.28 (1)	10.00			
O-I	0 / 694	-18.5 -18.5	0.28 (1)	10.00			
I-P	0 / 0	-18.5 -18.5	0.22 (1)	10.00			
P-H	0 / 0	-18.5 -18.5	0.22 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)							
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
I	9-3-4	-127	-127	---	FRONT	VERT	TOTAL
K	3-8-12	-127	-127	---	FRONT	VERT	TOTAL
M	1-8-12	-121	-121	---	FRONT	VERT	TOTAL
N	5-8-12	-127	-127	---	FRONT	VERT	TOTAL
O	7-3-4	-127	-127	---	FRONT	VERT	TOTAL
P	11-3-4	-121	-121	---	FRONT	VERT	TOTAL

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA			
SPECIFIED LOADS:			
TOP CH.	LL	=	23.3 PSF
	DL	=	6.0 PSF
BOT CH.	LL	=	0.0 PSF
	DL	=	7.4 PSF
TOTAL LOAD	=	36.7 PSF	

SPACING = 24.0 IN. C/C

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.43")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.27/1.00 (F-H:1) , BC=0.28/1.00 (J-K:1) , WB=0.23/1.00 (B-K:1) , SSI=0.12/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.73 (C) (INPUT = 0.90)
JSI METAL= 0.42 (B) (INPUT = 0.95)

Structural component only
DWG# T-2406468

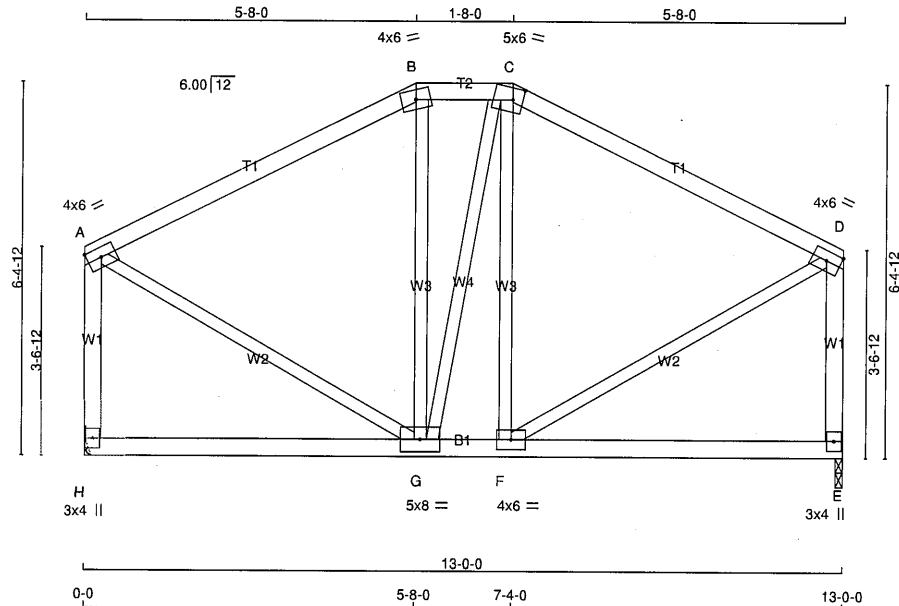


Structural component only
DWG# T-2406468

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T79	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 63 lb
[M][F]

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	2x4	DRY	No.2
E - D	2x4	DRY	No.2
H - E	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	4.0	6.0		Edge
B	TTWW-m	MT20	4.0	6.0		
C	TTWW-m	MT20	5.0	6.0	2.50	2.00
D	TMVW-t	MT20	4.0	6.0		Edge
E	BMV1-p	MT20	3.0	4.0		
F	BMVW-t	MT20	4.0	6.0		
G	BMVW-t	MT20	5.0	8.0		
H	BMV1-p	MT20	3.0	4.0		

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

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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
H	672	0	672	0	0
E	672	0	672	0	0

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN	COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	477	303 / 0	0 / 0	0 / 0	0 / 0	174 / 0	0 / 0
E	477	303 / 0	0 / 0	0 / 0	0 / 0	174 / 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)

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	-406 / 0	-84.9	-84.9 0.35 (1)	G-B	-129 / 8	6.25	0.09 (1)
B-C	-361 / 0	-84.9	-84.9 0.03 (1)	G-C	-3 / 0	6.25	0.00 (1)
C-D	-407 / 0	-84.9	-84.9 0.35 (1)	F-C	-126 / 8	6.25	0.08 (1)
H-A	-627 / 0	0.0	0.0 0.13 (1)	A-G	0 / 417	7.81	0.09 (1)
E-D	-628 / 0	0.0	0.0 0.13 (1)	F-D	0 / 418	7.81	0.09 (1)
H-G	0 / 0	-18.5	-18.5 0.13 (4)				
G-F	0 / 362	-18.5	-18.5 0.16 (4)				
F-E	0 / 0	-18.5	-18.5 0.13 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 6.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 36.7	PSF

SPACING = 24.0 IN./C

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

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.43")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.35/1.00 (C-D:1), BC=0.16/1.00 (F-G:4), WB=0.09/1.00 (D-F:1), SSI=0.17/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(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= 0.33 (D) (INPUT = 0.90)
JSI METAL= 0.12 (D) (INPUT = 0.95)

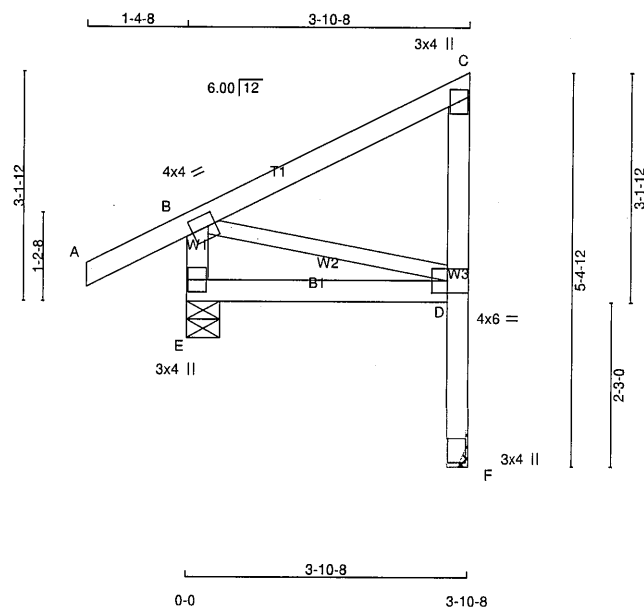


Structural component only
DWG# T-2406469

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T80	4	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 Mitek Industries, Inc. Wed Feb 28 16:19:35 2024 Page 1
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Scale = 1:30.2

LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				DESIGN CRITERIA			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.	FACTORED	MAXIMUM FACTORED	INPUT	REQRD	SPECIFIED LOADS:		
A - C	2x4	DRY	No.2	SPF	GROSS REACTION	GROSS REACTION	BRG	BRG	TOP CH. LL =	23.3	PSF
F - C	2x4	DRY	No.2	SPF	VERT	HORZ	DOWN	HORZ	DL =	6.0	PSF
E - B	2x4	DRY	No.2	SPF	F	200	0	200	0	0	PSF
E - D	2x4	DRY	No.2	SPF	E	322	0	322	0	0	PSF
ALL WEBS	2x3	DRY	No.2	SPF					DL =	7.4	PSF
DRY: SEASONED LUMBER.									TOTAL LOAD =	36.7	PSF

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	BVMW-l	MT20	4.0	6.0	2.00	2.50
E	TP+p	MT20	3.0	4.0	25.75	0.25
E	BMV1+p	MT20	3.0	4.0		

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN	COMPONENT REACTIONS				
F	142	90/0	0/0	0/0	0/0	52/0	0/0
E	227	157/0	0/0	0/0	0/0	69/0	0/0

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

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

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

LOADING
TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD LC1	MAX.	MEMB.	MAX. FACTORED	MAX.
	(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	CSI (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
A-B	0/27	-84.9	-84.9 0.14 (5)	10.00	B-D	0/0	0.00 (1)
B-C	0/0	-84.9	-84.9 0.22 (1)	10.00			
F-D	-200/0	0.0	0.0 0.03 (1)	7.81			
D-C	-164/0	0.0	0.0 0.03 (1)	7.81			
E-B	-287/0	0.0	0.0 0.03 (1)	7.81			
E-D	0/0	-18.5	-18.5 0.08 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.22/1.00 (B-C:1), BC=0.08/1.00 (D-E:4), WB=0.00/1.00 (B-D: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

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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (B) (INPUT = 0.90)
JSI METAL= 0.05 (C) (INPUT = 0.95)

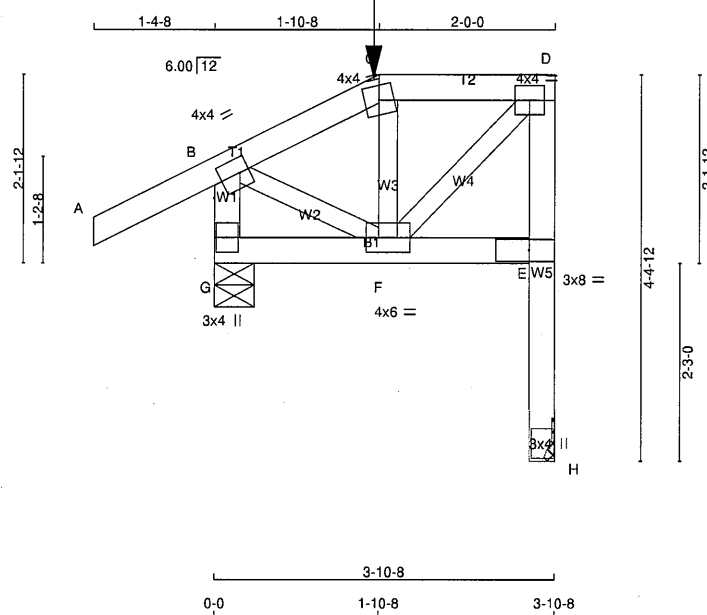


Structural component only
DWG# T-2406470

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T81	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 21 = 41 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
H - D	2x4	DRY	No.2
G - B	2x4	DRY	No.2
G - E	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	TMVW-t	MT20	4.0	4.0	2.00	1.25
B	TP+p	MT20	3.0	4.0	3.50	3.50
C	TTW-m	MT20	4.0	4.0		
D	TMVW-t	MT20	4.0	4.0		
E	BVM-I	MT20	3.0	8.0	1.50	4.50
F	BMVWW-t	MT20	4.0	6.0		
G	BMV1+p	MT20	3.0	4.0		

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	HORIZ	GROSS REACTION	HORIZ	UPLIFT	IN-SX	IN-SX	BRG
H	192	0	192	0	0	0	MECHANICAL		
G	360	0	360	0	0	5-8		1-8	

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT H. MINIMUM BEARING LENGTH AT JOINT H = 1-12.

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	136	86/-12	0/0	0/0	0/0	0/0	51/0	0/0
G	253	178/0	0/0	0/0	0/0	0/0	74/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS		MAX. FACTORED		FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT.	LOAD (PLF)	LC1	MAX	MEMB.	FORCE (LBS)	MAX	LC (LC)
FR-TO						FR-TO			
A-B	0/27	-84.9	-84.9	0.16 (5)	10.00	F-C	-97/24	0.02 (1)	
B-C	-132/0	-84.9	-84.9	0.15 (5)	6.25	F-D	0/130	0.03 (1)	
C-D	-93/0	-84.9	-84.9	0.06 (1)	6.25	B-F	0/108	0.03 (1)	
H-E	-192/0	0.0	0.0	0.03 (1)	7.81				
E-D	-175/0	0.0	0.0	0.02 (1)	7.81				
G-B	-343/0	0.0	0.0	0.04 (1)	7.81				
G-F	0/0	-18.5	-18.5	0.02 (4)	10.00				
F-E	0/0	-18.5	-18.5	0.02 (4)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	1-10-8	-4	-4	---	FRONT	VERT	DEAD	---	C1
C	1-10-8	-16	-16	---	FRONT	VERT	SNOW	---	C1

CONNECTION REQUIREMENTS

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

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 = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 CBC 2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.16/1.00 (A-B-5), BC=0.02/1.00 (F-G-4), WB=0.03/1.00 (D-F-1), SSI=0.11/1.00 (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)	(PLI)
MAX	MIN	MAX	MIN
MT20	650	371	1747
		788	1987
			1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

CONTINUED ON PAGE 2



Structural component only
DWG# T-2406471

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T81	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Wed Feb 28 16:19:36 2024 Page 2
ID:sd0FDfb38oVqvTaiRkhtSzPAoD- XSZkirT3DsunmxViiYg1ut83kfnDlj9 I MJezqZoL

JSI GRIP= 0.20 (B) (INPUT = 0.90)
JSI METAL= 0.08 (B) (INPUT = 0.95)

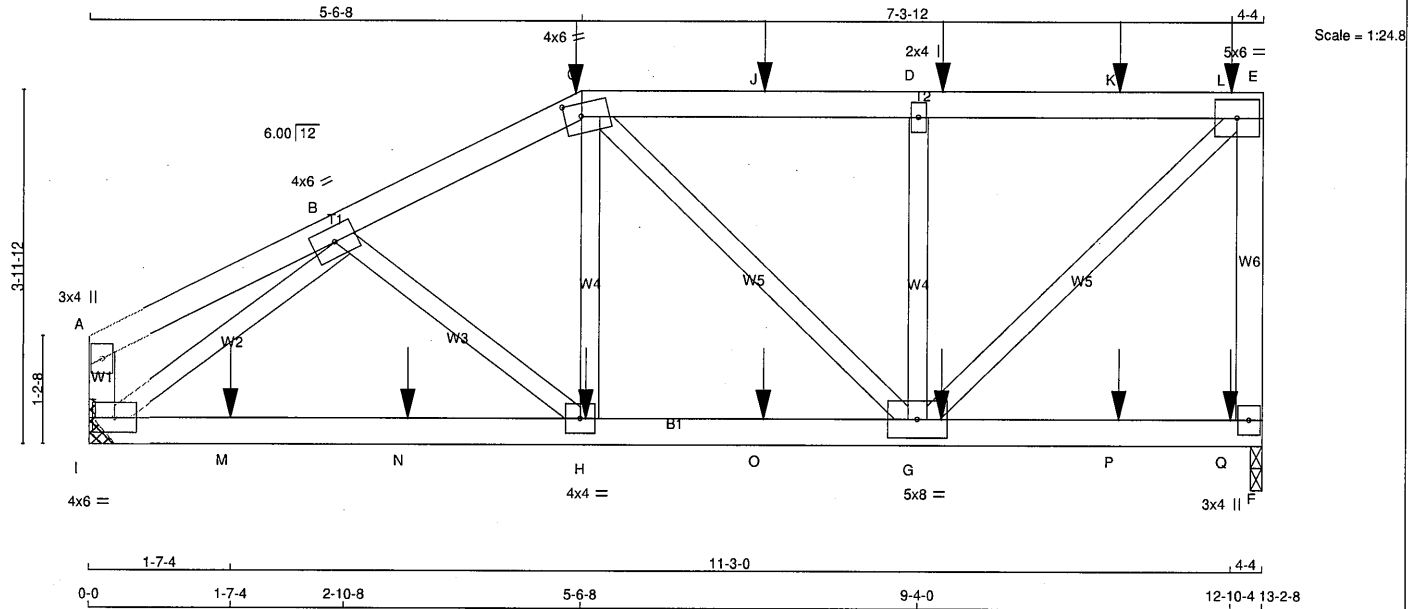


Structural component only
DWG# T-2406471

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T82	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Wed Feb 28 16:19:38 2024 Page 1
ID:sd0FDfbi38oVqvTaiRkhtSzPAoD-wwZK9Otkaq6c135uq6a87JyRXYG9h7sSR3TTOWzgZoJ



LUMBER					
N. L. G. A. RULES					
CHORDS	SIZE		LUMBER		DESCR
A - C	2x4	DRY	No.2		SPF
C - E	2x4	DRY	No.2		SPF
F - E	2x4	DRY	No.2		SPF
I - A	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	TMV+p	MT20	3.0	4.0		
B	TMWW-t	MT20	4.0	6.0		
C	TTWW-m	MT20	4.0	6.0	1.75	2.25
D	TMW+w	MT20	2.0	4.0		
E	TMVW-t	MT20	5.0	6.0		
F	BMV1+p	MT20	3.0	4.0		
G	BMWW-t	MT20	5.0	8.0		
H	BMWW-t	MT20	4.0	4.0		
I	BMVW1-t	MT20	4.0	6.0		

NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS

BEARINGS							
	FACTORED		MAXIMUM FACTORED		INPUT	REQRD	
	GROSS REACTION		GROSS REACTION		BRG	BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
F	1353	0	1353	0	0	1-8	1-8
I	1149	0	1149	0	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	960	615 / 0	0 / 0	0 / 0	0 / 0	0 / 0	345 / 0	0 / 0
I	816	518 / 0	0 / 0	0 / 0	0 / 0	0 / 0	298 / 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 = 5.32 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 MAX CS1 (LC)	MAX. UNBRACED LENGTH	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
FR-TO						FR-TO			
A-B	0 / 9	-84.9	-84.9	0.09 (1)	10.00	H-C	0 / 153	0.06 (4)	
B-C	-1438 / 0	-84.9	-84.9	0.11 (1)	5.32	G-E	0 / 1440	0.36 (1)	
C-J	-1043 / 0	-84.9	-84.9	0.35 (1)	5.63	C-G	-330 / 0	0.15 (1)	
J-D	-1043 / 0	-84.9	-84.9	0.35 (1)	5.63	G-D	-649 / 0	0.17 (1)	
D-K	-1043 / 0	-84.9	-84.9	0.35 (1)	5.63	B-H	0 / 106	0.03 (4)	
K-L	-1043 / 0	-84.9	-84.9	0.35 (1)	5.63	I-B	-1547 / 0	0.38 (1)	
L-E	-1043 / 0	-84.9	-84.9	0.35 (1)	5.63				
F-E	-1278 / 0	0.0	0.0	0.33 (1)	7.10				
I-A	-99 / 0	0.0	0.0	0.01 (1)	7.81				
I-M	0 / 1194	-18.5	-18.5	0.34 (1)	10.00				
M-N	0 / 1194	-18.5	-18.5	0.34 (1)	10.00				
N-H	0 / 1194	-18.5	-18.5	0.34 (1)	10.00				
H-O	0 / 1280	-18.5	-18.5	0.33 (1)	10.00				
O-G	0 / 1280	-18.5	-18.5	0.33 (1)	10.00				
G-P	0 / 0	-18.5	-18.5	0.14 (4)	10.00				
P-Q	0 / 0	-18.5	-18.5	0.14 (4)	10.00				
Q-F	0 / 0	-18.5	-18.5	0.14 (4)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	5-6-8	-57	-57	---	FRONT	VERT	DEAD	---	C1
C	5-6-8	-76	-76	---	BACK	VERT	TOTAL	---	C1
C	5-6-8	-222	-222	---	FRONT	VERT	SNOW	---	C1
D	9-7-4	-70	-70	---	BACK	VERT	TOTAL	---	C1
G	9-7-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
H	5-7-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
J	7-7-4	-70	-70	---	BACK	VERT	TOTAL	---	C1
K	11-7-4	-70	-70	---	BACK	VERT	TOTAL	---	C1
L	12-10-4	-89	-89	---	BACK	VERT	TOTAL	---	C1
M	1-7-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
N	3-7-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
O	7-7-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
P	11-7-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
Q	12-10-4	-26	-26	---	BACK	VERT	TOTAL	---	C1

DESIGN CRITERIA

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

SPECIFIED LOADS:

TOP CH.	LL = 23.3 PSF
	DL = 6.0 PSF
BOT CH.	LL = 0.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 36.7 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 2015

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.44")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL) = L/360 (0.44")
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.35/1.00 (D-E:1), BC=0.34/1.00 (H-I:1), WB=0.38/1.00 (B-I:1), SSI=0.25/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 650 371 1747 798 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.78 (I) (INPUT = 0.90)
JSI METAL= 0.35 (B) (INPUT = 0.95)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2406472

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T82	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Wed Feb 28 16:19:38 2024 Page 2
ID:sd0FDfbi38cVqvTaiRkhtSzPAoD-wwZK9Otkag6c135uq6a87JyRXYG9h7sSR3TTOWzgZoj

CONNECTION REQUIREMENTS

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

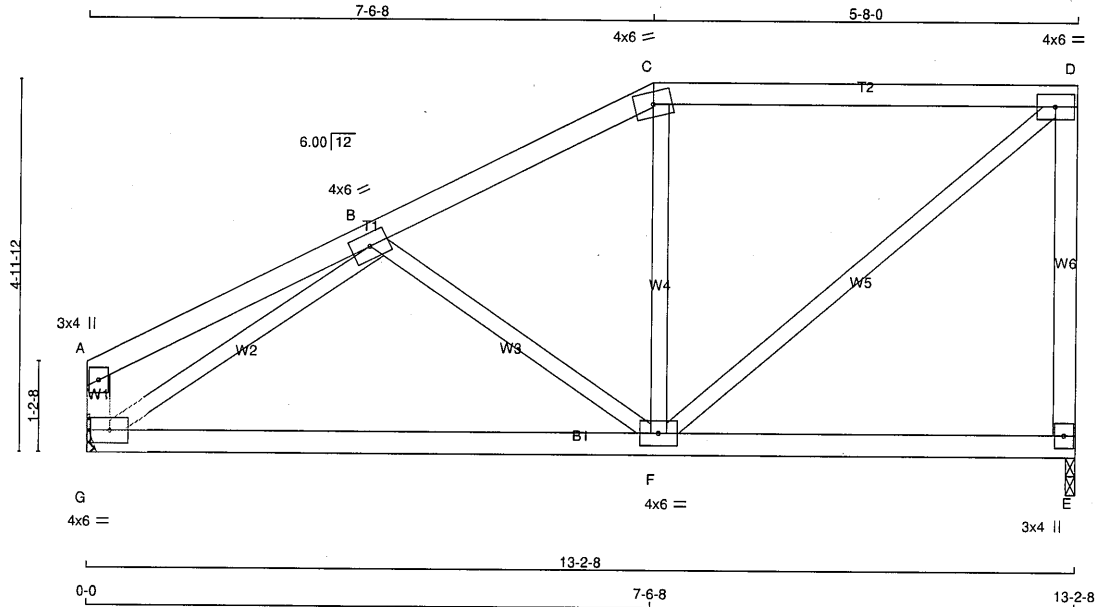


Structural component only
DWG# T-2406472

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T83	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Wed Feb 28 16:19:39 2024 Page 1
ID:sd0FDfbi38oVqvTaiRkhtSzPAoD-O67iMkuML8ESeDg4Oq5NfWVclxc3QbFbgjC0wzzgZol



Scale = 1:29.4

TOTAL WEIGHT = 53 lb
(M)(F)

<u>LUMBER</u>					
N. L. G. A. RULES					
CHORDS		SIZE		LUMBER	DESCR
A - C	2x4	DRY	No.2		SPF
C - D	2x4	DRY	No.2		SPF
E - D	2x4	DRY	No.2		SPF
G - A	2x4	DRY	No.2		SPF
G - E	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
A	TMV+p	MT20	3.0	4.0			
B	TMWW-t	MT20	4.0	6.0			
C	TTW-m	MT20	4.0	6.0			
D	TMVW-t	MT20	4.0	6.0			
E	BMV1+p	MT20	3.0	4.0			
F	BMWWW-t	MT20	4.0	6.0			
G	BMVW1-t	MT20	4.0	6.0			

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQRD
		GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
E	683	0	683	0	1-8
G	683	0	683	0	1-8

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS	1ST LCASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
E	485	308 / 0	0 / 0
G	485	308 / 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)

CHORDS		FACTORED		WEBS	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (LBS)	LC1 MAX (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB. MAX. FORCE (LBS)
FR-TO					
A-B	0 / 16	-84.9	-84.9 0.19 (1)	10.00	B-F -235 / 0
B-C	-563 / 0	-84.9	-84.9 0.15 (1)	6.25	F-C -119 / 25
C-D	-486 / 0	-84.9	-84.9 0.35 (1)	6.25	F-D 0 / 635
E-D	-649 / 0	0.0	0.0 0.27 (1)	7.81	G-B -844 / 0
G-A	-124 / 0	0.0	0.0 0.01 (1)	7.81	
G-F	0 / 679	-18.5	-18.5 0.30 (4)	10.00	
F-E	0 / 0	-18.5	-18.5 0.25 (4)	10.00	

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	23.3	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.4	PSF
TOTAL LOAD	=	36.7	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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.44")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.01")
ALLOWABLE DEFL.(TL) = $L/360$ (0.44")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.10")

CSI: TC=0.35/1.00 (C-D:1), BC=0.30/1.00 (F-G:4), WB=0.30/1.00 (B-G:1), SSI=0.19/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES	PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
	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= 0.75 (F) (INPUT = 0.90)
JSI METAL= 0.19 (F) (INPUT = 0.95)

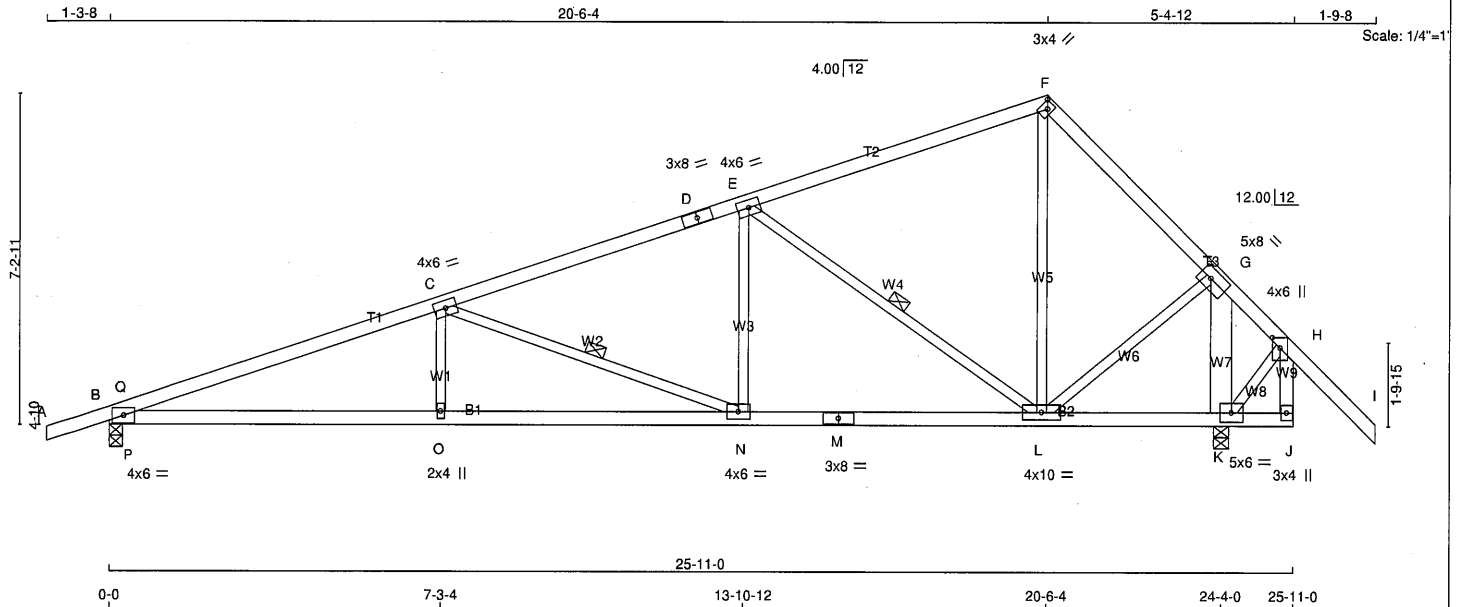


Structural component only
DWG# T-2406473

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T91C	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 Mitek Industries, Inc. Wed Feb 28 16:19:40 2024 Page 1
ID:FKLRYFY9FU?Txu1_f4rwjzgucQ-sJh4a4v_6RMJGNFGyXdcCk2kklV9z7lvNyaSPzgZoH



TOTAL WEIGHT = 103 lb
[M][F]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B TMB1-I	MT20	4.0	6.0		
C TMWW-I	MT20	4.0	6.0		
D TS-I	MT20	3.0	8.0		
E TMWW-I	MT20	4.0	6.0		
F TTW+H	MT20	3.0	4.0	Edge 1.75	
G TMWW-I	MT20	5.0	8.0	2.50	3.00
H TMVW+P	MT20	4.0	6.0	2.75	2.00
J BMV+P	MT20	3.0	4.0		
K BMWW1-I	MT20	5.0	6.0		
L BMWWW-I	MT20	4.0	10.0		
M BS-I	MT20	3.0	8.0		
N BMWW-I	MT20	4.0	6.0		
O BMW+W	MT20	2.0	4.0		

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

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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		
B	1349	0	1349	0	3-8	1-8
K	1604	0	1604	0	3-15	1-12

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM.LIVE	WIND			
B	956	617 / 0	0 / 0	0 / 0	0 / 0	338 / 0	0 / 0
K	1135	740 / 0	0 / 0	0 / 0	0 / 0	395 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.70 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO	FR-TO	
A-B	0 / 15	-84.9 -84.9 0.11 (1)	0-C	0 / 153
B-Q	-2818 / 0	-84.9 -84.9 0.26 (1)	C-N	-1101 / 0
Q-C	-2783 / 0	-84.9 -84.9 0.56 (1)	N-E	0 / 509
C-D	-1701 / 0	-84.9 -84.9 0.47 (1)	E-L	-1328 / 0
D-E	-1701 / 0	-84.9 -84.9 0.47 (1)	L-F	0 / 357
E-F	-587 / 0	-84.9 -84.9 0.44 (1)	K-G	-1416 / 0
F-G	-778 / 0	-84.9 -84.9 0.16 (1)	L-G	0 / 851
G-H	0 / 166	-84.9 -84.9 0.23 (1)	K-H	-185 / 0
H-I	0 / 57	-84.9 -84.9 0.22 (1)	P-Q	-159 / 99
J-H	-2 / 6	0.0 0.0 0.00 (4)		
B-P	0 / 2647	-18.5 -18.5 0.56 (1)		
P-O	0 / 2647	-18.5 -18.5 0.61 (1)		
O-N	0 / 2647	-18.5 -18.5 0.53 (1)		
N-M	0 / 1617	-18.5 -18.5 0.34 (1)		
M-L	0 / 1617	-18.5 -18.5 0.34 (1)		
L-K	-135 / 0	-18.5 -18.5 0.09 (4)		
K-J	0 / 0	-18.5 -18.5 0.04 (1)		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	23.3	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.4	PSF
TOTAL LOAD	=	36.7	PSF

SPACING = 24.0 IN. C/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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.81")
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")
ALLOWABLE DEFL.(TL) = L/360 (0.81")
CALCULATED VERT. DEFL.(TL) = L/999 (0.26")

CANTILEVER DEFLECTION:

ALLOWABLE DEFL.(LL) = L/120 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/120 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.56/1.00 (C-Q:1), BC=0.61/1.00 (O-P:1), WB=0.58/1.00 (E-L:1), SSI=0.25/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
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= 0.71 (B) (INPUT = 0.90)
JSI METAL= 0.59 (B) (INPUT = 0.95)

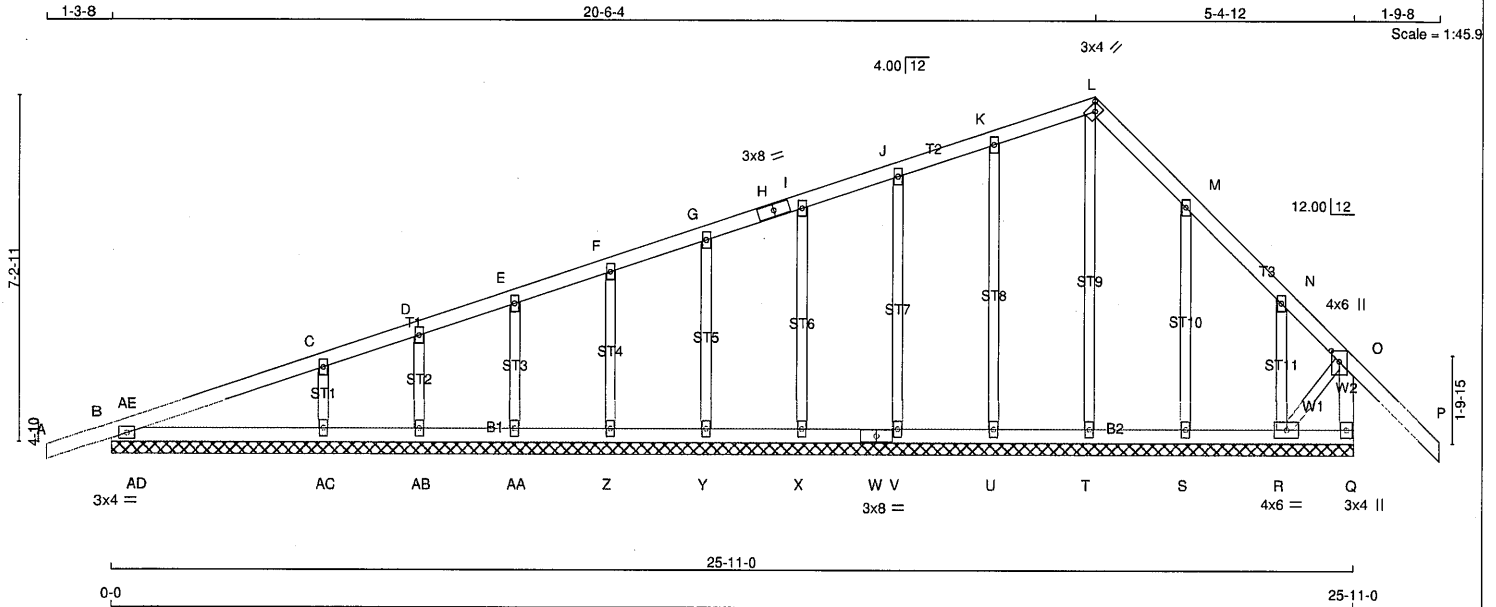


Structural component only
DWG# T-2406474

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T91G	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:FKLRYfY9FU?Txu1_f4rwjzguCQ-LVFSnQvctUAuXqTWF8rkxa_ulLPtXlu80h7?rzgZoC



TOTAL WEIGHT = 106 lb [M]

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

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

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

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	23.3	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.4	PSF
TOTAL LOAD	=	36.7	PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.22/1.00 (O-P:1), BC=0.12/1.00 (B-AD:1), WB=0.14/1.00 (K-U:1), SSI=0.14/1.00 (C-AE: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	MIN	MIN
MT20	650	371
	1747	788
	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.61 (L) (INPUT = 0.90)

JSI METAL= 0.11 (M) (INPUT = 0.95)

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-I	MT20	3.0	4.0	
C, D, E, F, G, I, J, K, M, N					
C	TMW+w	MT20	2.0	4.0	
H	TS-I	MT20	3.0	8.0	
L	TTW+h	MT20	3.0	4.0	Edge 1.75
Q	TMVW+p	MT20	4.0	6.0	2.75 2.00
O	BMV1+p	MT20	3.0	4.0	
R	BMVW1-t	MT20	4.0	6.0	
S, T, U, V, X, Y, Z, AA, AB, AC					
S	BMV1+w	MT20	2.0	4.0	
W	BS-I	MT20	3.0	8.0	

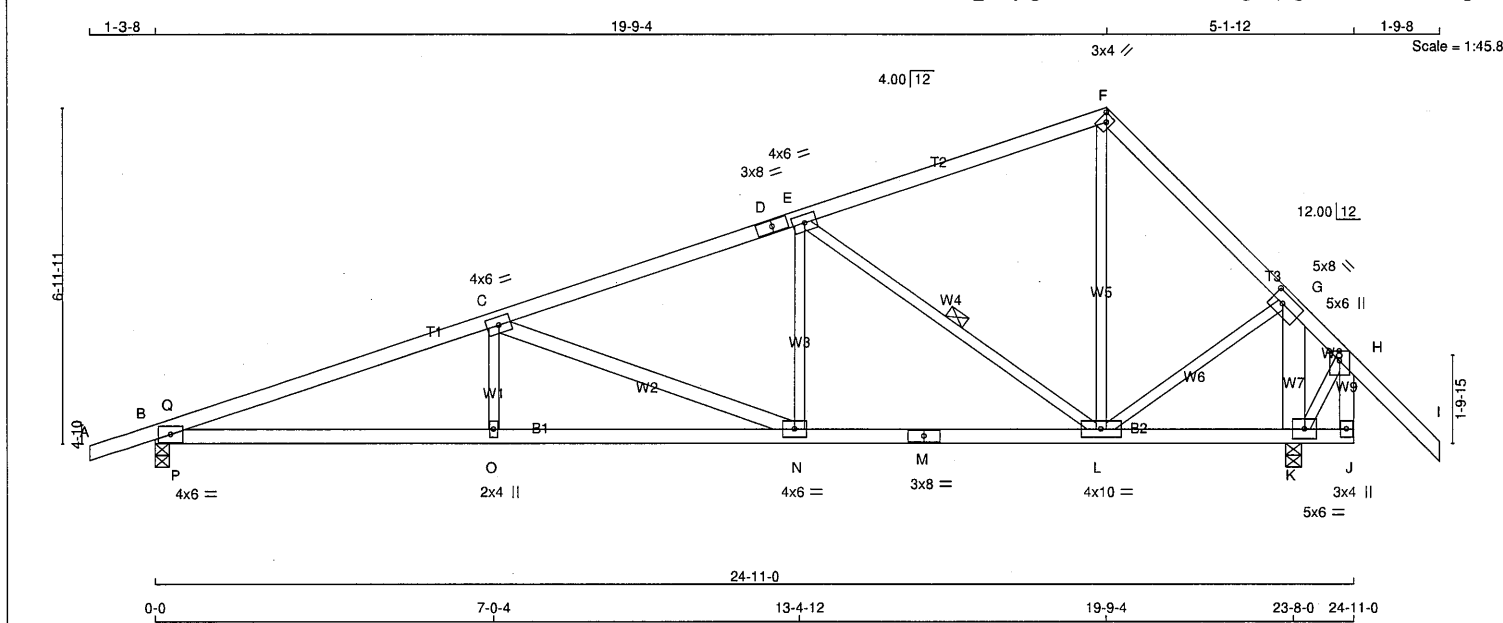
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 15	-84.9 -84.9 0.11 (1)	10.00	T-L	-118 / 0	0.11 (1)	
B-AE	-36 / 0	-84.9 -84.9 0.03 (4)	6.25	U-K	-198 / 0	0.14 (1)	
AE-C	-30 / 0	-84.9 -84.9 0.17 (1)	6.25	V-J	-163 / 0	0.09 (1)	
C-D	-48 / 0	-84.9 -84.9 0.17 (1)	6.25	X-I	-170 / 0	0.07 (1)	
D-E	-23 / 0	-84.9 -84.9 0.05 (1)	6.25	Y-G	-170 / 0	0.05 (1)	
E-F	-25 / 0	-84.9 -84.9 0.05 (1)	6.25	Z-F	-165 / 0	0.04 (1)	
F-G	-22 / 0	-84.9 -84.9 0.04 (1)	6.25	AA-E	-185 / 0	0.03 (1)	
G-H	-20 / 0	-84.9 -84.9 0.04 (1)	6.25	AB-D	-97 / 0	0.02 (1)	
H-I	-20 / 0	-84.9 -84.9 0.04 (1)	6.25	AC-C	-335 / 0	0.05 (1)	
I-J	-18 / 0	-84.9 -84.9 0.04 (1)	6.25	S-M	-208 / 0	0.09 (1)	
J-K	-15 / 0	-84.9 -84.9 0.05 (1)	6.25	R-N	-9 / 0	0.00 (1)	
K-L	-20 / 0	-84.9 -84.9 0.05 (1)	6.25	R-O	0 / 29	0.01 (1)	
L-M	-37 / 0	-84.9 -84.9 0.06 (1)	6.25	AD-AE	-163 / 9	0.00 (1)	
M-N	-13 / 0	-84.9 -84.9 0.06 (1)	6.25				
N-O	-109 / 0	-84.9 -84.9 0.21 (1)	6.25				
O-P	0 / 57	-84.9 -84.9 0.22 (1)	10.00				
Q-O	-374 / 0	0.0 0.0 0.04 (1)	7.81				
B-AD	0 / 38	-18.5 -18.5 0.12 (1)	10.00				
AD-AC	0 / 38	-18.5 -18.5 0.12 (1)	10.00				
AC-AB	0 / 28	-18.5 -18.5 0.09 (1)	10.00				
AB-AA	0 / 26	-18.5 -18.5 0.02 (4)	10.00				
AA-Z	0 / 23	-18.5 -18.5 0.02 (4)	10.00				
Z-Y	0 / 21	-18.5 -18.5 0.02 (4)	10.00				
Y-X	0 / 19	-18.5 -18.5 0.02 (4)	10.00				
X-W	0 / 17	-18.5 -18.5 0.02 (4)	10.00				
W-V	0 / 17	-18.5 -18.5 0.02 (4)	10.00				
V-U	0 / 16	-18.5 -18.5 0.02 (4)	10.00				
U-T	0 / 14	-18.5 -18.5 0.02 (4)	10.00				
T-S	0 / 16	-18.5 -18.5 0.02 (4)	10.00				
S-R	0 / 20	-18.5 -18.5 0.02 (4)	10.00				
R-Q	0 / 0	-18.5 -18.5 0.01 (4)	10.00				



Structural component only
DWG# T-2406475



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-I	MT20	4.0	6.0	
C	TMWW-t	MT20	4.0	6.0	
D	TS-I	MT20	3.0	8.0	
E	TMWW-t	MT20	4.0	6.0	
F	TTW+h	MT20	3.0	4.0	Edge 1.75
G	TMWW-t	MT20	5.0	8.0	2.50 3.00
H	TMWW+p	MT20	5.0	6.0	Edge
J	BMV+p	MT20	3.0	4.0	
K	BMWW1-t	MT20	5.0	6.0	
L	BMWW-t	MT20	4.0	10.0	
M	BS-I	MT20	3.0	8.0	
N	BMWW-t	MT20	4.0	6.0	
O	BMW+w	MT20	2.0	4.0	

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

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQ'D	
JT	VERT	GROSS REACTION	HORIZ	DOWN	HORIZ	BRG	IN-SX	BRG	IN-SX
B	1318	0	1318	0	0	3-8	1-8		
K	1531	0	1531	0	0	3-15	1-11		

UNFACTORED REACTIONS		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
B	934	604 / 0	0 / 0	0 / 0	0 / 0	330 / 0	0 / 0		
K	1084	707 / 0	0 / 0	0 / 0	0 / 0	376 / 0	0 / 0		

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.79 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF 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)	LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 15	-84.9	-84.9 0.11 (1)	10.00	O-C	0 / 147	0.05 (4)
B-Q	-2757 / 0	-84.9	-84.9 0.24 (1)	3.99	C-N	-1057 / 0	0.66 (1)
Q-C	-2718 / 0	-84.9	-84.9 0.51 (1)	3.79	N-E	0 / 490	0.11 (1)
C-D	-1680 / 0	-84.9	-84.9 0.43 (1)	4.68	E-L	-1276 / 0	0.52 (1)
D-E	-1680 / 0	-84.9	-84.9 0.43 (1)	4.68	L-F	0 / 394	0.09 (1)
E-F	-611 / 0	-84.9	-84.9 0.40 (1)	6.25	K-G	-1336 / 0	0.11 (1)
F-G	-812 / 0	-84.9	-84.9 0.16 (1)	6.25	L-G	0 / 807	0.18 (1)
G-H	0 / 129	-84.9	-84.9 0.23 (1)	10.00	K-H	-169 / 0	0.03 (1)
H-I	0 / 57	-84.9	-84.9 0.22 (1)	10.00	P-Q	-140 / 97	0.00 (1)
J-H	-12 / 0	0.0	0.0 0.00 (1)	7.81			
B-P	0 / 2585	-18.5	-18.5 0.53 (1)	10.00			
P-O	0 / 2585	-18.5	-18.5 0.58 (1)	10.00			
O-N	0 / 2585	-18.5	-18.5 0.51 (1)	10.00			
N-M	0 / 1597	-18.5	-18.5 0.33 (1)	10.00			
M-L	0 / 1597	-18.5	-18.5 0.33 (1)	10.00			
L-K	-109 / 0	-18.5	-18.5 0.09 (4)	6.25			
K-J	0 / 0	-18.5	-18.5 0.04 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 CBC 2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

(5% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.79")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (0.79")
CALCULATED VERT. DEFL.(TL) = L/999 (0.23")

CANTILEVER DEFLECTION:
ALLOWABLE DEFL.(LL) = L/120 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/120 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.51/1.00 (C-Q:1), BC=0.58/1.00 (O-P:1), WB=0.66/1.00 (C-N:1), SSI=0.24/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

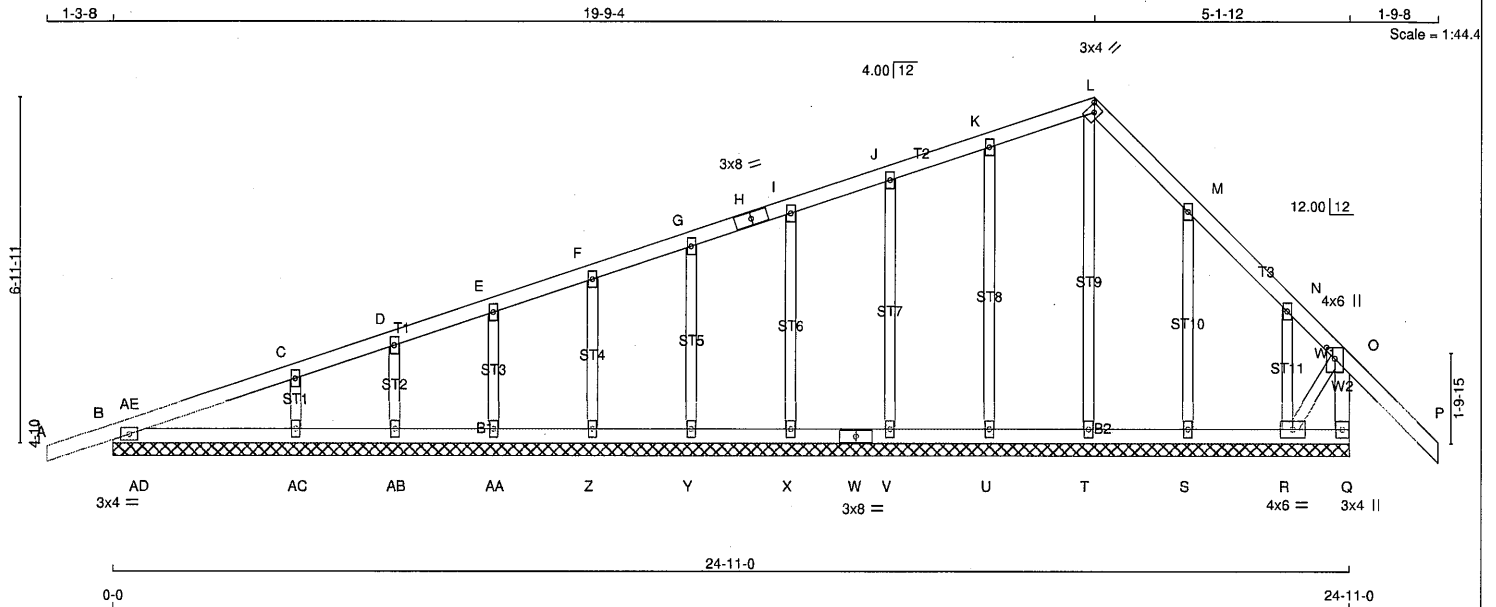
JSI GRIP= 0.70 (B) (INPUT = 0.90)
JSI METAL= 0.58 (B) (INPUT = 0.95)



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	T92G	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 101 lb [M]

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-I	MT20	3.0	4.0	
C, D, E, F, G, I, J, K, M, N					
C	TMW+w	MT20	2.0	4.0	
L	TS-I	MT20	3.0	8.0	
L	TTW+h	MT20	3.0	4.0	Edge 1.75
O	TMVW+p	MT20	4.0	6.0	2.75 2.00
Q	BMV1+p	MT20	3.0	4.0	
R	BMVW1-t	MT20	4.0	6.0	
S, T, U, V, X, Y, Z, AA, AB, AC					
S	BMV1+w	MT20	2.0	4.0	
W	BS-I	MT20	3.0	8.0	

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

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

PROVIDE ANCHORAGE AT BEARING JOINT R FOR 150 LBS. FACTORED UPLIFT BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S).

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (L)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (L)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO			
A-B	0/15	-84.9 -84.9 0.11 (1)	10.00	T-L	-129/0	0.11 (1)	
B-AE	-37/0	-84.9 -84.9 0.03 (4)	6.25	U-K	-198/0	0.13 (1)	
AE-C	-24/0	-84.9 -84.9 0.11 (1)	6.25	V-J	-163/0	0.08 (1)	
C-D	-33/0	-84.9 -84.9 0.11 (1)	6.25	X-I	-170/0	0.06 (1)	
D-E	-17/0	-84.9 -84.9 0.04 (1)	6.25	Y-G	-169/0	0.05 (1)	
E-F	-16/0	-84.9 -84.9 0.04 (1)	6.25	Z-F	-167/0	0.04 (1)	
F-G	-13/0	-84.9 -84.9 0.04 (1)	6.25	AA-E	-179/0	0.03 (1)	
G-H	-11/0	-84.9 -84.9 0.04 (1)	6.25	AB-D	-127/0	0.02 (1)	
H-I	-11/0	-84.9 -84.9 0.04 (1)	6.25	AC-C	-276/0	0.04 (1)	
I-J	-10/0	-84.9 -84.9 0.04 (1)	10.00	S-M	-206/0	0.08 (1)	
J-K	-6/0	-84.9 -84.9 0.05 (1)	10.00	R-N	0/22	0.00 (1)	
K-L	-12/0	-84.9 -84.9 0.05 (1)	6.25	R-O	0/18	0.00 (1)	
L-M	-26/0	-84.9 -84.9 0.05 (1)	6.25	AD-AE	-117/6	0.00 (1)	
M-N	-3/0	-84.9 -84.9 0.05 (1)	10.00				
N-O	-112/0	-84.9 -84.9 0.21 (1)	6.25				
O-P	0/57	-84.9 -84.9 0.22 (1)	10.00				
Q-O	-370/0	0.0 0.0 0.04 (1)	7.81				
B-AD	0/31	-18.5 -18.5 0.08 (1)	10.00				
AD-AC	0/31	-18.5 -18.5 0.08 (1)	10.00				
AC-AB	0/21	-18.5 -18.5 0.06 (1)	10.00				
AB-AA	0/18	-18.5 -18.5 0.02 (4)	10.00				
AA-Z	0/15	-18.5 -18.5 0.02 (4)	10.00				
Z-Y	0/13	-18.5 -18.5 0.02 (4)	10.00				
Y-X	0/11	-18.5 -18.5 0.02 (4)	10.00				
X-W	0/9	-18.5 -18.5 0.02 (4)	10.00				
W-V	0/9	-18.5 -18.5 0.02 (4)	10.00				
V-U	0/8	-18.5 -18.5 0.02 (4)	10.00				
U-T	0/6	-18.5 -18.5 0.02 (4)	10.00				
T-S	0/8	-18.5 -18.5 0.02 (4)	10.00				
S-R	0/13	-18.5 -18.5 0.02 (4)	10.00				
R-Q	0/0	-18.5 -18.5 0.01 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.22/1.00 (O-P:1), BC=0.08/1.00 (B-AD:1), WB=0.13/1.00 (K-U:1), SSI=0.12/1.00 (C-AE:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.61 (L) (INPUT = 0.90)
JSI METAL= 0.11 (M) (INPUT = 0.95)

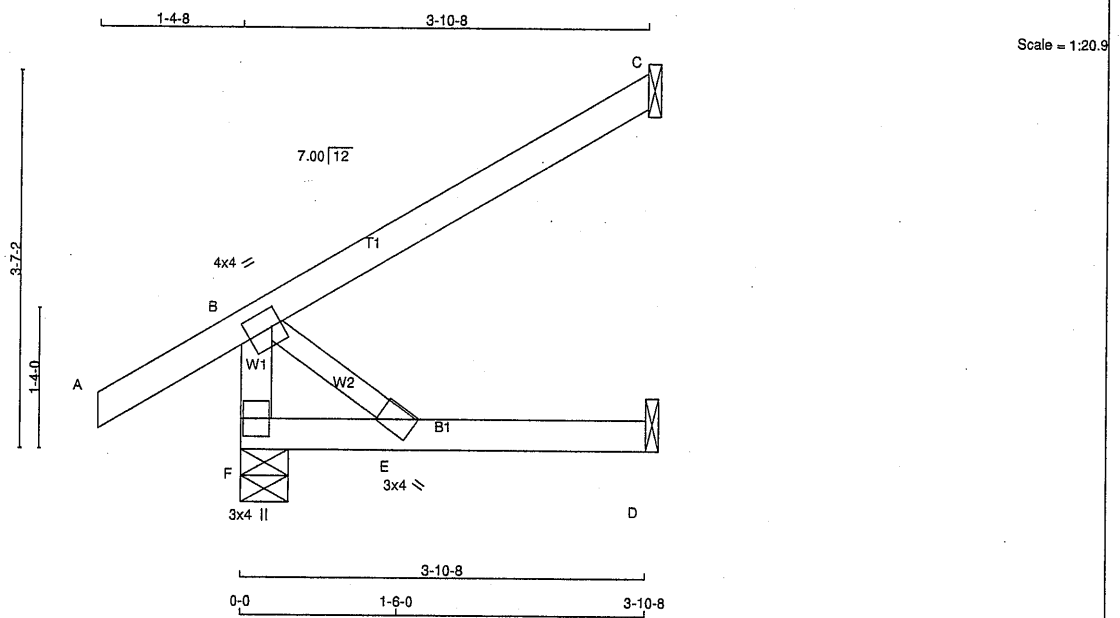


Structural component only
DWG# T-2406477

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	J1	14	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 Mitek Industries, Inc. Wed Feb 28 15:02:21 2024 Page 1
ID:VL_DQvi1e49Qy7axT?i10OzOYuG-BrtLym5c6uXDT6hnmukhSP2sLjPj1nwA7ib7nzgawm



LUMBER				DESCR.	
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	SPF	SPF
F - B	2x4	DRY	No.2	SPF	SPF
A - C	2x4	DRY	No.2	SPF	SPF
F - D	2x4	DRY	No.2	SPF	SPF
ALL WEBS	2x3	DRY	No.2	SPF	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	1.00
E	BMW+w	MT20	3.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REORD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
F	323	0	323	0	5-8	1-8
C	164	0	164	0	1-8	1-8
D	36	0	40	0	1-8	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX/MIN. COMPONENT REACTIONS		WIND DEAD SOIL	
	SNOW	LIVE	PERM.LIVE			
F	227	158 / 0	0 / 0	0 / 0	69 / 0	0 / 0
C	113	90 / 0	0 / 0	0 / 0	23 / 0	0 / 0
D	29	0 / 0	0 / 0	0 / 0	29 / 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)	LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
F-B	-287 / 0	0.0	0.0 0.03 (1)	B-E	0 / 0	0.00 (1)	
A-B	0 / 31	-84.9	-84.9 0.14 (5)				
B-C	0 / 0	-84.9	-84.9 0.22 (1)				
F-E	0 / 0	-18.5	-18.5 0.08 (4)				
E-D	0 / 0	-18.5	-18.5 0.08 (4)				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 14 X 14 = 194 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

(55 % OF 27.2 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.22/1.00 (B-C:1), BC=0.08/1.00 (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) (PLI)
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= 0.17 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 0.95)

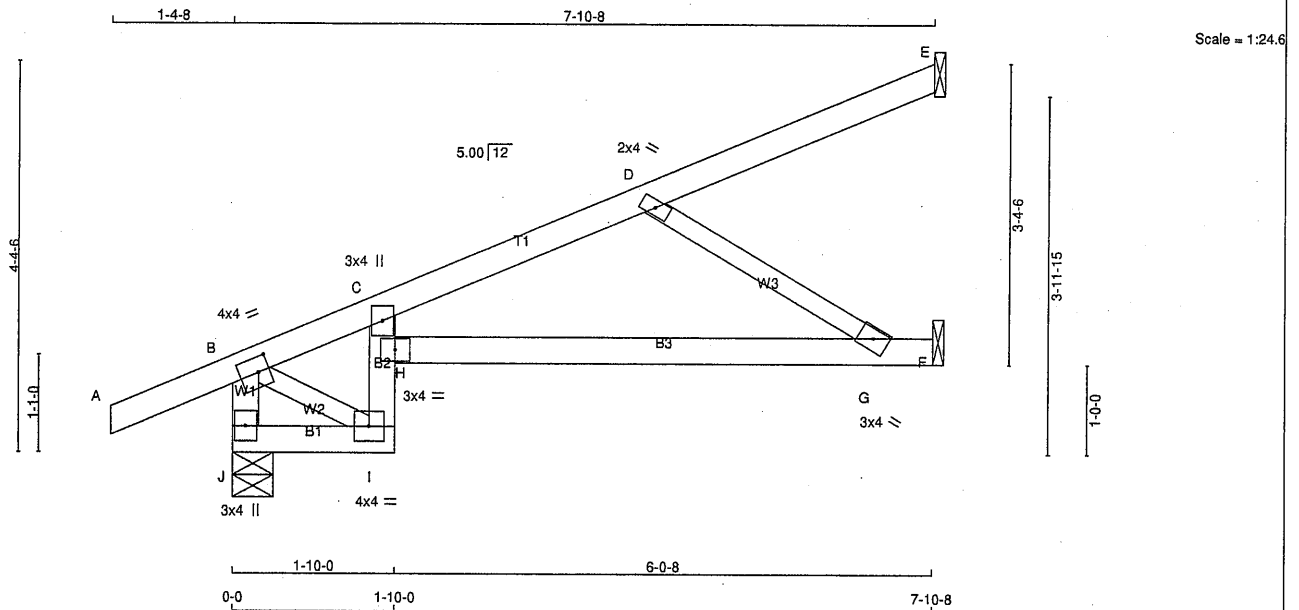


Structural component only
DWG# T-2406382

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	J2S	24	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 24 X 26 = 631 lb

LUMBER				DESCR.	
N. L. G. A. RULES					
CHORDS	SIZE	LUMBER		SPF	
J - B	2x4	DRY	No.2	SPF	
A - E	2x4	DRY	No.2	SPF	
J - I	2x4	DRY	No.2	SPF	
I - C	2x4	DRY	No.2	SPF	
H - F	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-t	MT20	4.0	4.0	2.00 1.50
C	TMV+p	MT20	3.0	4.0	
D	TMV+w	MT20	2.0	4.0	
G	BMV+w	MT20	3.0	4.0	
H	BVM-i	MT20	3.0	4.0	
I	BMVW-t	MT20	4.0	4.0	
J	BMV1+p	MT20	3.0	4.0	

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
JT						
J	539	0	539	0	5-8	1-8
E	90	0	90	0	1-8	1-8
F	306	0	306	0	1-8	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) E, F

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM. LIVE	WIND			
J	380	256/0	0/0	0/0	0/0	124/0	0/0
E	62	53/0	0/0	0/0	0/0	9/0	0/0
F	220	124/0	0/0	0/0	0/0	95/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 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. CSI (LC)	MEMB. FORCE (LBS)	MAX. CSI (LC)	MAX. FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO			
J-B	-560/0	0.0	0.0	0.05 (4)	7.81		D-G	-484/0
A-B	0/23	-84.9	-84.9	0.12 (1)	10.00		B-I	0/223
B-C	-323/0	-84.9	-84.9	0.24 (1)	6.25			
C-D	-381/0	-84.9	-84.9	0.36 (1)	6.25			
D-E	-17/0	-84.9	-84.9	0.19 (1)	6.25			
J-I	0/32	-18.5	-18.5	0.08 (1)	10.00			
I-H	-42/8	0.0	0.0	0.24 (1)	7.81			
H-C	0/88	0.0	0.0	0.22 (1)	10.00			
H-G	0/399	-18.5	-18.5	0.35 (1)	10.00			
G-F	0/0	-18.5	-18.5	0.27 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.26")
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.26")
CALCULATED VERT. DEFL.(TL) = L/424 (0.22")

CSI: TC=0.36/1.00 (C-D:1), BC=0.35/1.00 (G-H:1),
WB=0.11/1.00 (D-G:1), SSI=0.24/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.37 (I) (INPUT = 0.90)
JSI METAL= 0.22 (D) (INPUT = 0.95)

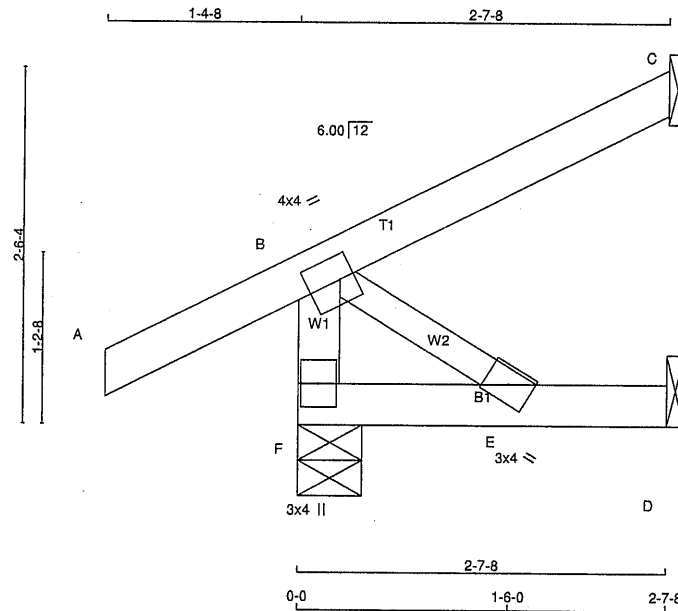


Structural component only
DWG# T-2406384

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	J3	4	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:15.6

LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
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-t	MT20	4.0	4.0	2.00 1.25
E	BMW+w	MT20	3.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
JT	258	0	258	0	0	5-8	1-8	
F	111	0	111	0	0	1-8	1-8	
C	24	0	27	0	0	1-8	1-8	
D								

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
JT	181	128 / 0	0 / 0	0 / 0	52 / 0	0 / 0
F	77	61 / 0	0 / 0	0 / 0	16 / 0	0 / 0
C	19	0 / 0	0 / 0	0 / 0	19 / 0	0 / 0
D						

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)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX. CSI (LC)	MEMB. MAX. UNBRAC LENGTH	FR-TO	MAX. FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO					
F-B	-234 / 0	0.0	0.0	0.02 (1)	7.81	B-E	0 / 0	0.00 (1)
A-B	0 / 27	-84.9	-84.9	0.13 (5)	10.00			
B-C	0 / 0	-84.9	-84.9	0.10 (1)	10.00			
F-E	0 / 0	-18.5	-18.5	0.04 (4)	10.00			
E-D	0 / 0	-18.5	-18.5	0.04 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 4 X 10 = 42 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.13/1.00 (A-B:5), BC=0.04/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SSI=0.09/1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(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= 0.14 (B) (INPUT = 0.90)
JSI METAL= 0.04 (B) (INPUT = 0.95)

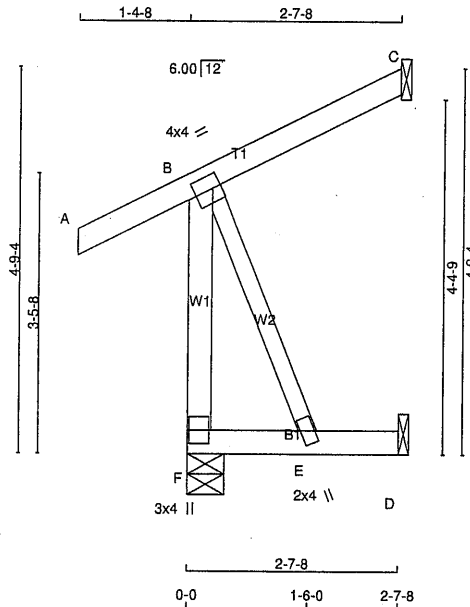


Structural component only
DWG# T-2406385

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	J4	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Wed Feb 28 15:02:27 2024 Page 1
ID:V1_DQv1e49Qy7axT?110OzOYUG-0?FcCuqsByehxOZr21?9wjf4flnV7IGpY39vLRzgawg



Scale = 1:27.2

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

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

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
JT	258	0	258	0	5-8	1-8
F	111	0	111	0	1-8	1-8
C	24	0	27	0	1-8	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	181	128 / 0	0 / 0	0 / 0	0 / 0	52 / 0	0 / 0
C	77	61 / 0	0 / 0	0 / 0	0 / 0	16 / 0	0 / 0
D	19	0 / 0	0 / 0	0 / 0	0 / 0	19 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MEMB.	FORCE (LBS)	LC1 MAX	LC2 MAX
FR-TO		FROM	TO	FR-TO		FROM	TO
F-B	-234 / 0	0.0	0.0	0.05 (1)	7.81	0 / 0	0.00 (1)
A-B	0 / 27	-84.9	-84.9	0.13 (5)	10.00		
B-C	0 / 0	-84.9	-84.9	0.10 (1)	10.00		
F-E	0 / 0	-18.5	-18.5	0.04 (4)	10.00		
E-D	0 / 0	-18.5	-18.5	0.04 (4)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 14 = 29 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.13/1.00 (A-B:5), BC=0.04/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SSI=0.09/1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

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	650 371	1747 788	1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (B) (INPUT = 0.90)
JSI METAL= 0.04 (B) (INPUT = 0.95)

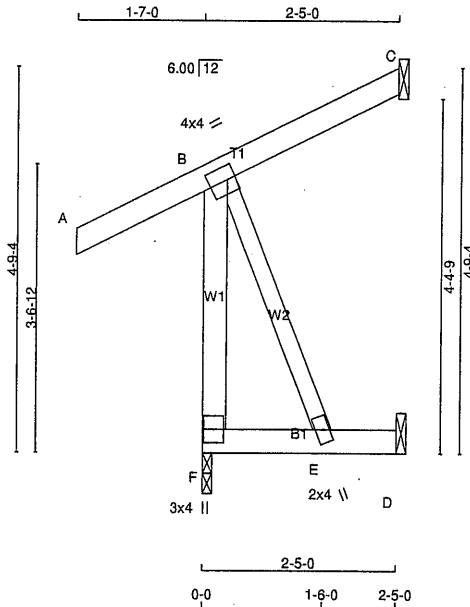


Structural component only
DWG# T-2406386

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	J5	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:27.2

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
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-t	MT20	4.0	4.0	2.00 1.25
E	BMW+w	MT20	2.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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	IN-SX	IN-SX
F	265	0	265	0	1-8	1-8	1-8	1-8
C	103	0	103	0	1-8	1-8	1-8	1-8
D	22	0	25	0	1-8	1-8	1-8	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM.LIVE	WIND			
F	185	133 / 0	0 / 0	0 / 0	52 / 0	0 / 0	0 / 0
C	71	56 / 0	0 / 0	0 / 0	14 / 0	0 / 0	0 / 0
D	18	0 / 0	0 / 0	0 / 0	18 / 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		FACTORED		W E B S		FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX. (LC)	MEMB. UNBRAC LENGTH	FR-TO	MAX. FORCE (LBS)	MAX. (LC)
FR-TO								
F-B	-242 / 0	0.0	0.0	0.05 (1)	7.81	B-E	0 / 0	0.00 (1)
A-B	0 / 31	-84.9	-84.9	0.17 (5)	10.00			
B-C	0 / 0	-84.9	-84.9	0.08 (1)	10.00			
F-E	0 / 0	-18.5	-18.5	0.03 (4)	10.00			
E-D	0 / 0	-18.5	-18.5	0.03 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 14 = 28 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.17/1.00 (A-B:5), BC=0.03/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SSI=0.10/1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

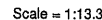
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (B) (INPUT = 0.90)
JSI METAL= 0.04 (B) (INPUT = 0.95)



Structural component only
DWG# T-2406387

Tamarack Roof Truss, Burlington



TOTAL WEIGHT = $2 \times 8 = 16$ lb

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

JSI GRIP= 0.14 (B) (INPUT = 0.90)
JSI METAL= 0.04 (B) (INPUT = 0.95)

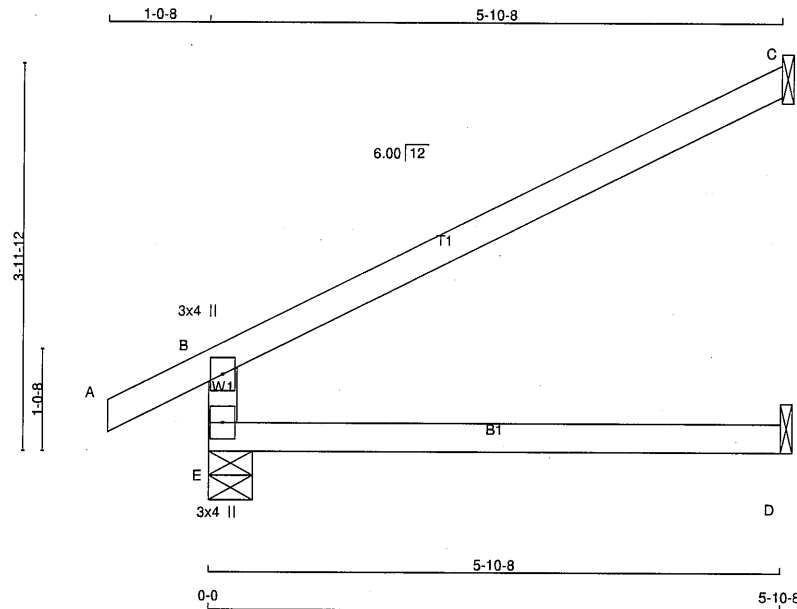


Structural component only
DWG# T-2406388

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425914	J8	7	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:22.6

TOTAL WEIGHT = 7 X 16 = 114 lb

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

DRY: SEASONED LUMBER.

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

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	GROSS REACTION	DOWN	HORIZ	DOWN	HORIZ	BRG	IN-SX	BRG	IN-SX
E	470	0	470	0	0	5-8	1-8	5-8	1-8
C	187	0	187	0	0	1-8	1-8	1-8	1-8
D	44	0	50	0	0	1-8	1-8	1-8	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
E	331	223 / 0	0 / 0	0 / 0	0 / 0	109 / 0	0 / 0		
C	129	103 / 0	0 / 0	0 / 0	0 / 0	26 / 0	0 / 0		
D	36	0 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0		

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
E-B	-405 / 0	0.0	0.0 0.11 (4)	7.81			
A-B	0 / 21	-84.9	-84.9 0.07 (1)	10.00			
B-C	-28 / 0	-84.9	-84.9 0.38 (1)	6.25			
E-D	0 / 0	-18.5	-18.5 0.14 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	23.3	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.4	PSF
TOTAL LOAD	=	36.7	PSF

SPACING = 24.0 IN. C/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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(5% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.38/1.00 (B-C:1), BC=0.14/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=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

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.16 (E) (INPUT = 0.90)
JSI METAL= 0.11 (B) (INPUT = 0.95)

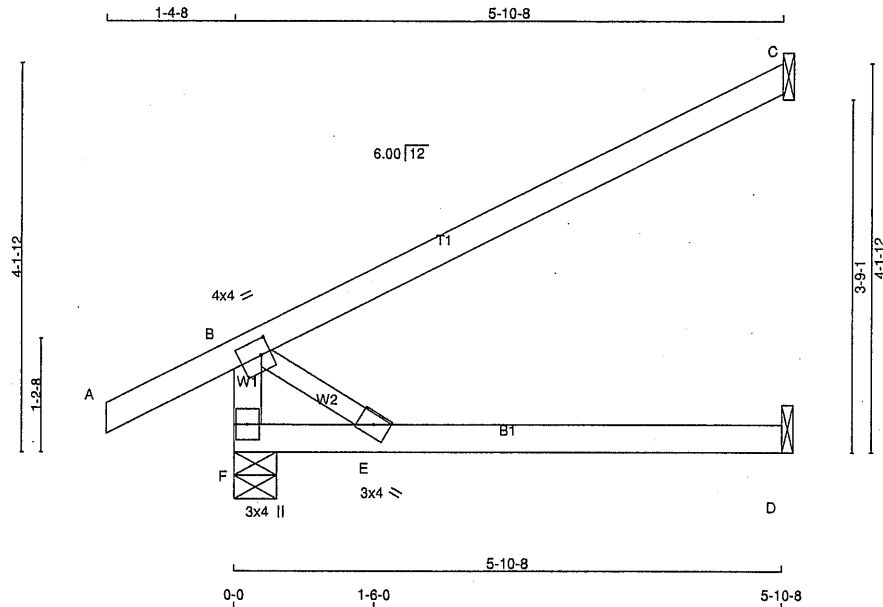


Structural component only
DWG# T-2406457

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	J11	11	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:23.5

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

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

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
F		426	0	426	0	0	5-8	1-8	
C		249	0	249	0	0	1-8	1-8	
D		54	0	61	0	0	1-8	1-8	

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL				
F	300	204 / 0	0 / 0	0 / 0	0 / 0	96 / 0	0 / 0				
C	172	137 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0				
D	43	0 / 0	0 / 0	0 / 0	0 / 0	43 / 0	0 / 0				

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		W E B S		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO	FR-TO			
F-B	-371 / 0	0.0	0.0 0.04 (1)	B-E	0 / 0	0.00 (1)	
A-B	0 / 27	-84.9	-84.9 0.12 (1)				
B-C	0 / 0	-84.9	-84.9 0.50 (1)				
F-E	0 / 0	-18.5	-18.5 0.14 (4)				
E-D	0 / 0	-18.5	-18.5 0.19 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN./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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.50/1.00 (B-C:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=0.17/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
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 = 0.22 (B) (INPUT = 0.90)
JSI METAL = 0.06 (B) (INPUT = 0.95)

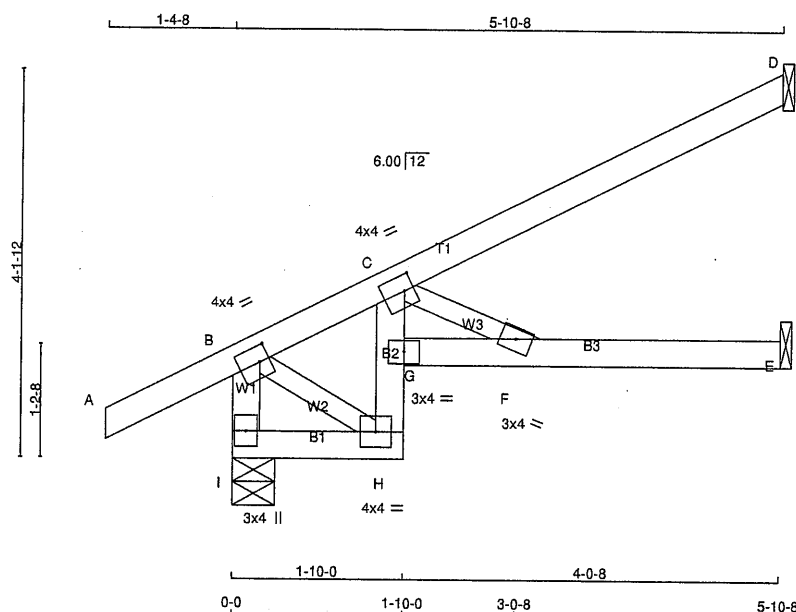


Structural component only
DWG# T-2406391

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	J11S	12	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:23.5

LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
I - B	2x4	DRY	No.2	SPF
A - D	2x4	DRY	No.2	SPF
I - H	2x4	DRY	No.2	SPF
H - C	2x4	DRY	No.2	SPF
G - 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
B	TMVW-t	MT20	4.0	4.0	2.00 1.25
C	TMVW-t	MT20	4.0	4.0	2.00 1.25
F	BMV-w	MT20	3.0	4.0	
G	BMV-H	MT20	3.0	4.0	
H	BMVW-t	MT20	4.0	4.0	
I	BMV1+p	MT20	3.0	4.0	

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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		
I	441	0	441	0	5-8	1-8
D	180	0	180	0	1-8	1-8
E	108	0	108	0	1-8	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) D, E

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM.LIVE	WIND			
I	310	212/0	0/0	0/0	98/0	0/0	0/0
D	125	95/0	0/0	0/0	31/0	0/0	0/0
E	80	34/0	0/0	0/0	46/0	0/0	0/0

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

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)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD (PLF)		MAX. CSI (LC)	UNBRAC LENGTH	MEMB.	WEBS MAX. FACTORED FORCE (LBS)		MAX. CSI (LC)
	FR-TO	FROM TO	FR-TO	FROM TO				FR-TO	FROM TO	
I-B	-425/0	0.0	0.0	0.04 (1)	7.81		B-H	0/189	0.04 (1)	
A-B	0/27	-84.9	-84.9	0.12 (1)	10.00		C-F	-446/0	0.07 (1)	
B-C	-213/0	-84.9	-84.9	0.12 (1)	6.25					
C-D	0/4	-84.9	-84.9	0.26 (1)	10.00					
I-H	0/0	-18.5	-18.5	0.02 (4)	10.00					
H-G	-73/0	0.0	0.0	0.23 (1)	7.81					
G-C	0/111	0.0	0.0	0.24 (1)	10.00					
G-F	0/391	-18.5	-18.5	0.38 (1)	10.00					
F-E	0/0	-18.5	-18.5	0.32 (1)	10.00					

TOTAL WEIGHT = 12 X 21 = 253 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD	=	36.7	PSF	

SPACING = 24.0 IN. C/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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.05")
ALLOWABLE DEFL.(TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(TL) = $L/619$ (0.11")

CSI: TC=0.26/1.00 (C-D:1), BC=0.38/1.00 (F-G:1),
WB=0.07/1.00 (C-F:1), SSI=0.18/1.00 (C-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.33 (C) (INPUT = 0.90)
JSI METAL= 0.17 (F) (INPUT = 0.95)



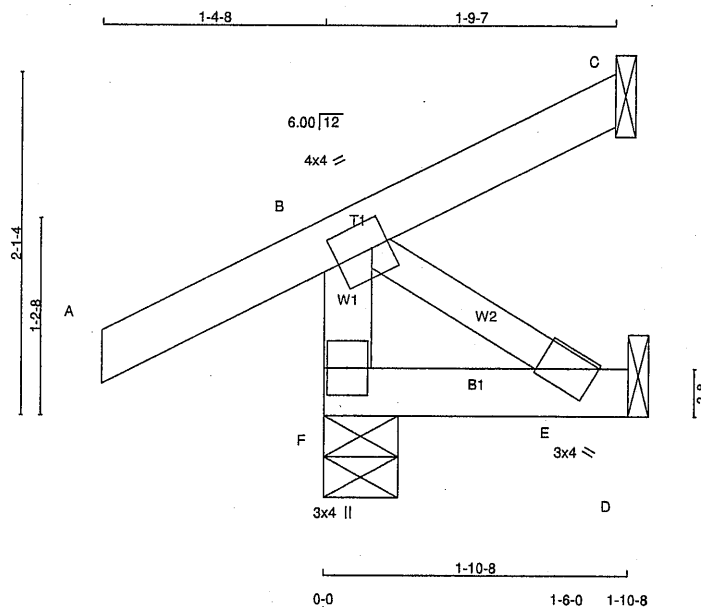
Structural component only
DWG# T-2406392

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	C1	7	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:VL_DQv1e49Qy7axT?110OzOYuG-r4Sv7iznaGF7hDkvDIZ_PiDZK1C2nXB0s?qSazgawr

Scale = 1:13.5



TOTAL WEIGHT = 7 X 8 = 59 lb

LUMBER

N. L. G. A. RULES
CHORDS SIZE
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

PLATES (table is in inches)

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

NOTES (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
F	265	0	265	0	5-8	1-8
C	27	0	27	0	1-8	1-8
D	17	0	19	0	1-8	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	185	136/0	0/0	0/0	0/0	49/0	0/0
C	18	15/-27	0/0	0/0	0/0	4/0	0/0
D	14	0/0	0/0	0/0	0/0	14/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX. FACTORED VERT. LOAD (LC)	UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)	
FR-TO		FROM	TO			FR-TO			
F-B	-247/0	0.0	0.0	0.03 (1)	7.81	B-E	0/0	0.00 (1)	
A-B	0/27	-84.9	-84.9	0.12 (1)	10.00				
B-C	-22/0	-84.9	-84.9	0.12 (1)	6.25				
F-E	0/0	-18.5	-18.5	0.02 (4)	10.00				
E-D	0/0	-18.5	-18.5	0.01 (4)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 6.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 36.7	PSF

SPACING = 24.0 IN. C/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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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)	(PLI)
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (B) (INPUT = 0.90)
JSI METAL= 0.04 (B) (INPUT = 0.95)

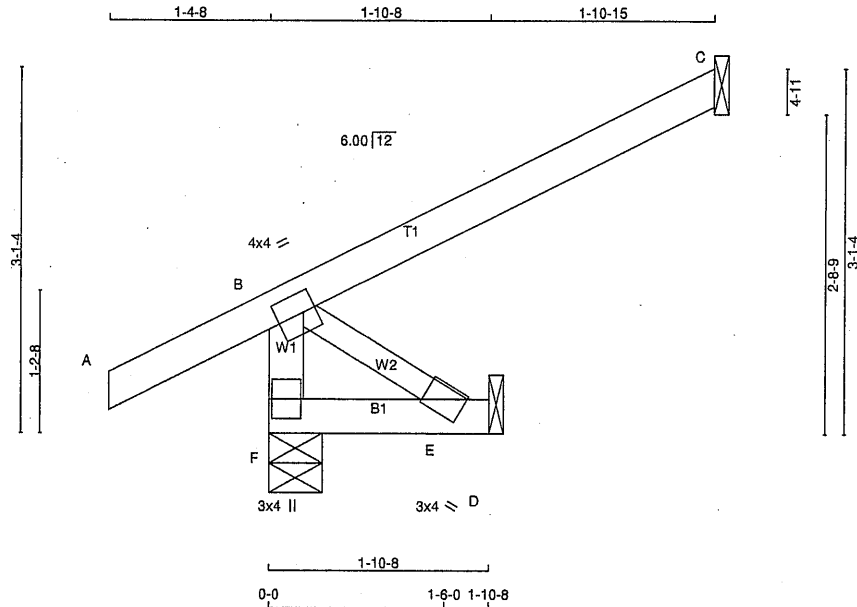


Structural component only
DWG# T-2406377

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	C2	5	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 5 X 11 = 55 lb

LUMBER

N. L. G. A. RULES

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

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

PLATES (table is in inches)

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

NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

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	300	0	300	0	5-8	1-8
C	161	0	161	0	1-8	1-8
D	17	0	19	0	1-8	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS				WIND	DEAD	SOIL
		COMBINED	SNOW	LIVE	PERM.LIVE			
F	209	155 / 0	0 / 0	0 / 0	0 / 0	54 / 0	0 / 0	0 / 0
C	111	88 / 0	0 / 0	0 / 0	0 / 0	23 / 0	0 / 0	0 / 0
D	14	0 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS			WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO		FR-TO		
F-B	-283 / 0	0.0 0.0 0.03 (1)	7.81	B-E	0 / 0	0.00 (1)
A-B	0 / 27	-84.9 -84.9 0.13 (5)	10.00			
B-C	0 / 0	-84.9 -84.9 0.21 (1)	10.00			
F-E	0 / 0	-18.5 -18.5 0.02 (4)	10.00			
E-D	0 / 0	-18.5 -18.5 0.01 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 23.3 PSF
DL	= 6.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 36.7 PSF

SPACING = 24.0 IN. C/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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.21/1.00 (B-C:1), BC=0.02/1.00 (E-F: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 (PSI)	SECTION (PLI)
MT20	650	371	1747
	788	1987	1873

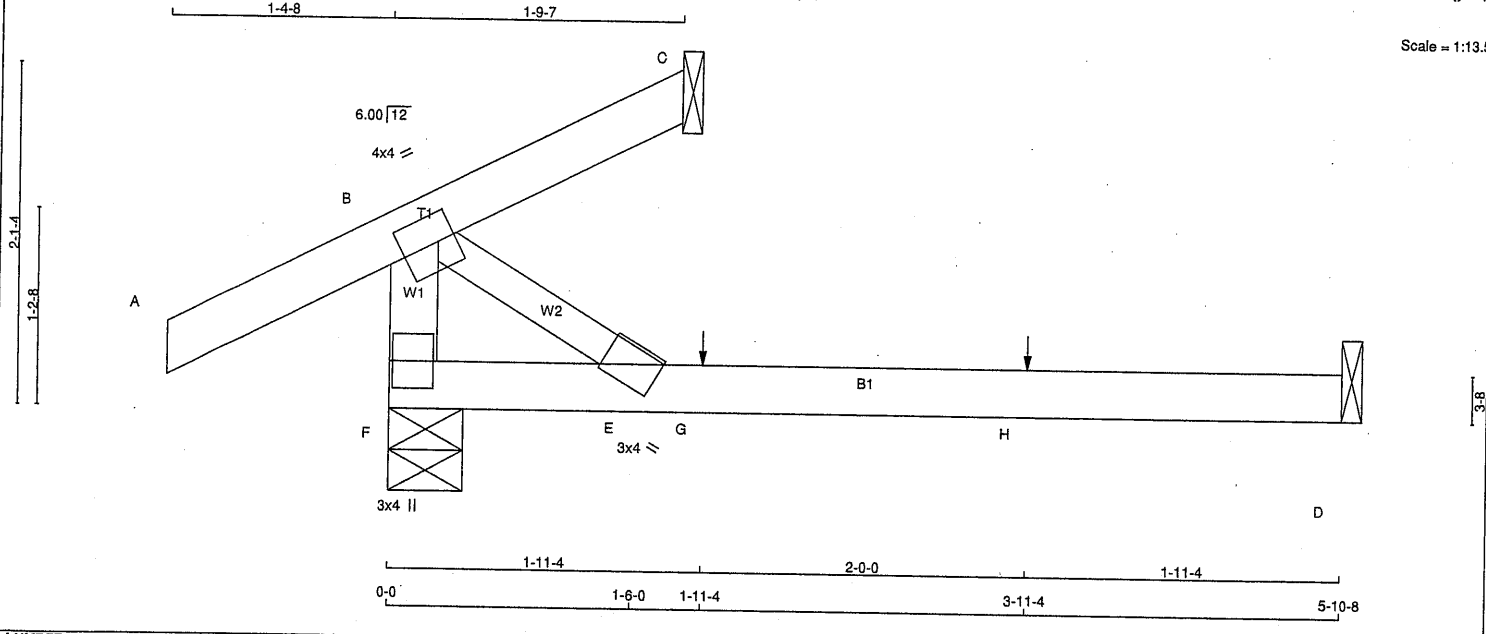
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.16 (B) (INPUT = 0.90)
JSI METAL= 0.04 (B) (INPUT = 0.95)



Structural component only
DWG# T-2406378



LUMBER				DESCR.	
N. L. G. A. RULES	SIZE	LUMBER		SPF	
CHORDS				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.					

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	302	0	302	0	5-8
C	27	0	27	0	1-8
D	54	0	61	0	1-8

DESIGN CRITERIA					
SPECIFIED LOADS:					
TOP CH.	LL	=	23.3	PSF	
	DL	=	6.0	PSF	
BOT CH.	LL	=	0.0	PSF	
	DL	=	7.4	PSF	
TOTAL LOAD = 36.7 PSF					

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

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

UNFACTORED REACTIONS						
1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
JT COMBINED						
F	214	136/0	0/0	0/0	78/0	0/0
C	18	15/0	0/0	0/0	4/0	0/0
D	43	0/0	0/0	0/0	43/0	0/0

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

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

LOADING						
TOTAL LOAD CASES: (4)						
CHORDS				WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 MAX. (LC)
FR-TO		FROM TO		FR-TO		
F-B	-247/0	0.0	0.0 0.03 (1)	B-E	0/0	0.00 (1)
A-B	0/27	-84.9	-84.9 0.13 (1)			
B-C	-22/0	-84.9	-84.9 0.12 (1)			
F-E	0/0	-18.5	-18.5 0.14 (4)			
E-G	0/0	-18.5	-18.5 0.19 (4)			
G-H	0/0	-18.5	-18.5 0.19 (4)			
H-D	0/0	-18.5	-18.5 0.19 (4)			

SPECIFIED CONCENTRATED LOADS (LBS)							
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
G	1-11-4	1	1	---	BACK	VERT	TOTAL
H	3-11-4	1	1	---	BACK	VERT	TOTAL

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.13/1.00 (A-B:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=0.09/1.00 (B-C:1)

DOL LUMBER=0.96 NAIL=0.96 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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

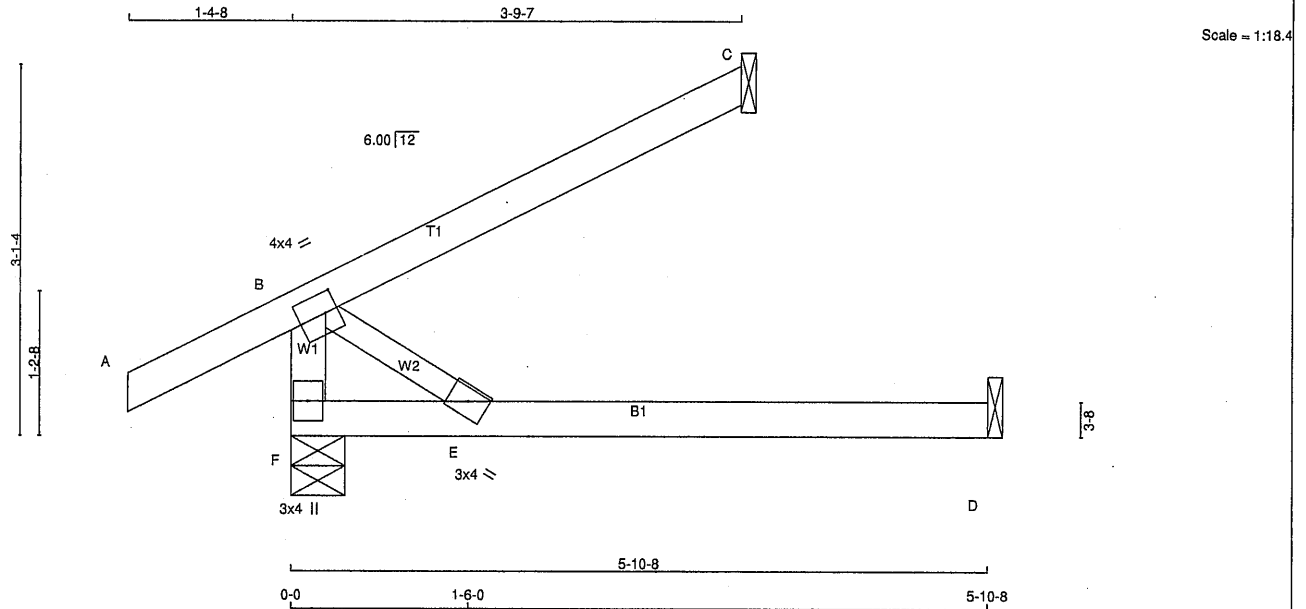
JSI GRIP= 0.15 (B) (INPUT = 0.90)
JSI METAL= 0.04 (B) (INPUT = 0.95)



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
425913	C4	5	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:VI_DQv1e49Qy7axT?i10OzOYUG-FSmbX9kr4Veq_9yJaLSGc1K1XX0HF7HdipDU3vzgawd



TOTAL WEIGHT = 5 X 16 = 78 lb

LUMBER

N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
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-t	MT20	4.0	4.0	2.00	1.25
E	BMW+w	MT20	3.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
F		337	0	337	0	0	5-8	1-8	
C		161	0	161	0	0	1-8	1-8	
D		54	0	61	0	0	1-8	1-8	

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	COMBINED	155 / 0	0 / 0	0 / 0	0 / 0	83 / 0	0 / 0
C		111	88 / 0	0 / 0	0 / 0	23 / 0	0 / 0
D		43	0 / 0	0 / 0	0 / 0	43 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT.	LOAD LC1 (PLF)	MAX. CSI (LC)	UNBRAC LENGTH	MEMB.	FORCE (LBS)
FR-TO						FR-TO	
F-B	-283 / 0	0.0	0.0	0.03 (1)	7.81	B-E	0 / 0
A-B	0 / 27	-84.9	-84.9	0.12 (1)	10.00		
B-C	0 / 0	-84.9	-84.9	0.21 (1)	10.00		
F-E	0 / 0	-18.5	-18.5	0.14 (4)	10.00		
E-D	0 / 0	-18.5	-18.5	0.19 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.21/1.00 (B-C:1), BC=0.19/1.00 (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 (PSI)	SECTION (PLI)
MT20	650	371	1747
	788	1987	1873

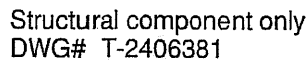
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.16 (B) (INPUT = 0.90)
JSI METAL= 0.04 (B) (INPUT = 0.95)



Structural component only
DWG# T-2406380





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-1900219

Feb 09, 2018

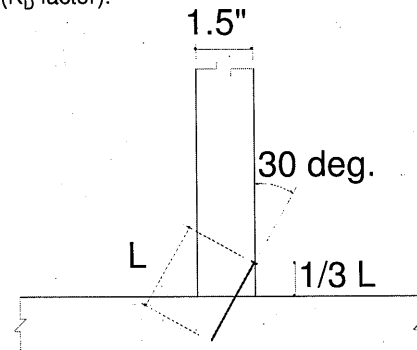
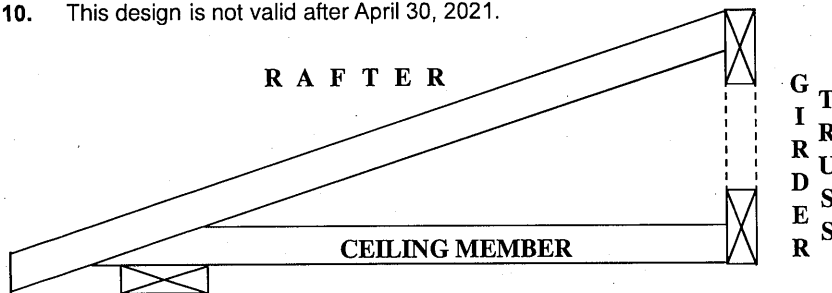
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

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 April 30, 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

PEO
Certificate No. 10889485



MiTek® MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7

April 2, 2020

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

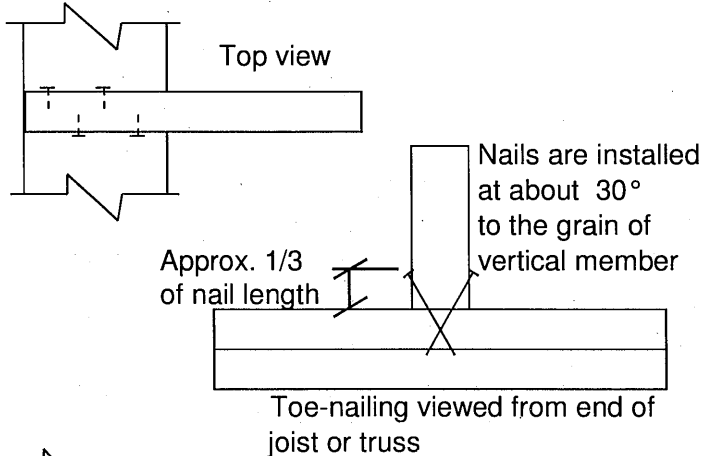
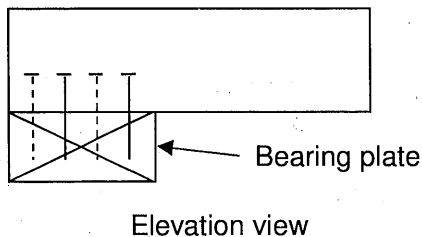
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52
COMMON SPIRAL	3.00	0.122	26	36
	3.25	0.122	28	40
	3.50	0.152	36	50

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

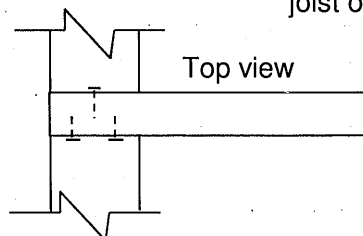
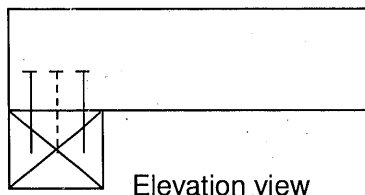
NOTES:

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 April 30, 2021.

Toe-nailing on 2x6 Bearing Plate



Toe-nailing on 2x4 Bearing Plate



PEO
Certificate No. 10889485



MiTek

MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7

April 2, 2020

ALTERNATIVE WEB BRACING SOLUTIONS

The scab brace detail shown on this page provides an alternative method of bracing compression webs of single ply trusses. Where the original design calls for web bracing, the scab-brace is an acceptable alternative provided that the factored axial force in the web member does not exceed the tabulated values shown below. This detail applies to web lengths of 4.0 ft. to 10.0 ft. only. For intermediate web lengths, do not interpolate, use the tabulated value of the longer length. (ex. For a 6.25 ft. web, use the tabulated values for a 6.5 ft. web)

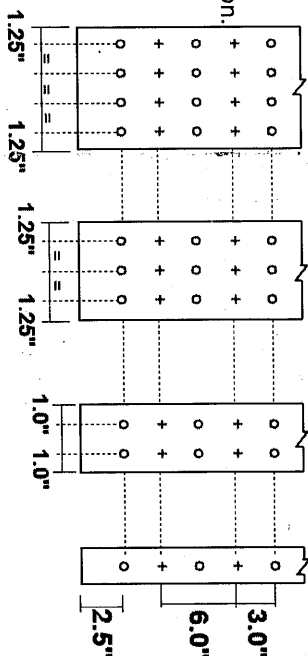
Maximum factored web force, lbs (1-Ply Truss)					
Web size	2x3	2x4	2x5	2x6	2x8+
4.0	4331	6064	7796	9529	12561
4.5	3794	5312	6829	8347	11003
5.0	3285	4599	5913	7227	9527
5.5	2823	3952	5081	6210	8186
6.0	2415	3381	4347	5313	7003
6.5	2063	2888	3713	4538	5982
7.0	1763	2468	3174	3879	5113
7.5	1510	2114	2718	3322	4379
8.0	1297	1816	2335	2854	3762
8.5	1117	1564	2011	2458	3240
9.0	966	1353	1740	2126	2803
9.5	840	1176	1512	1848	2436
10.0	733	1027	1320	1614	2127

NOTES:

1. This detail CANNOT be used to repair damaged webs.
2. Scab and web sizes must be equal (i.e. use a 2x6 scab on a 2x6 web, etc.).
3. Scab & web lumber must be DRY ($\leq 19\%$ moisture content) at time of installation.
4. Scab must cover minimum 90% of the entire length of web.
5. For 2x12 webs use 2x10 nail pattern, but with 5 rows of nails instead of 4 rows.
6. This detail is for webs loaded axially only (not for axial/bending members).
7. Web and scab lumber shall be SPF No. 2 (or better) grade.
8. Tabulated resistances are for standard load duration only ($K_D=1.0$) and DRY service conditions ($K_S=1.0$). Do not use detail for WET service applications.
9. This detail shall be used only in conjunction with sealed Mitek truss drawings.

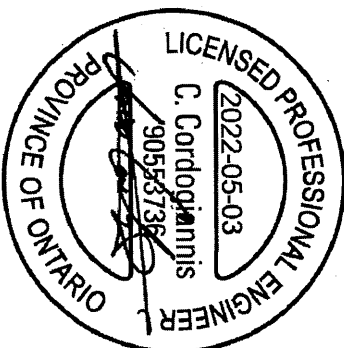
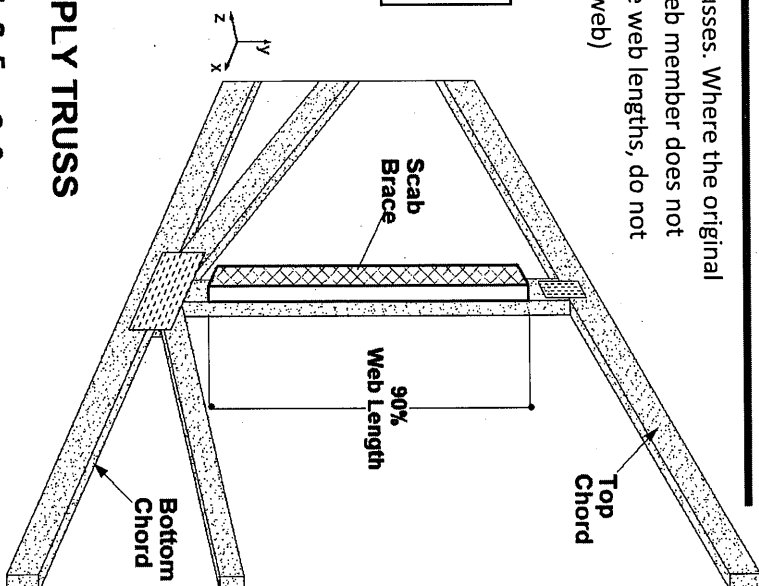
SCAB CONNECTION: 1-PLY TRUSS

2x10 2x6, 2x8 2x4, 2x5 2x3



+ 0.122" dia. x 3.0" nail driven from front face
o 0.122" dia. x 3.0" nail driven from back face

Note: Connect scabs to truss along their entire length.

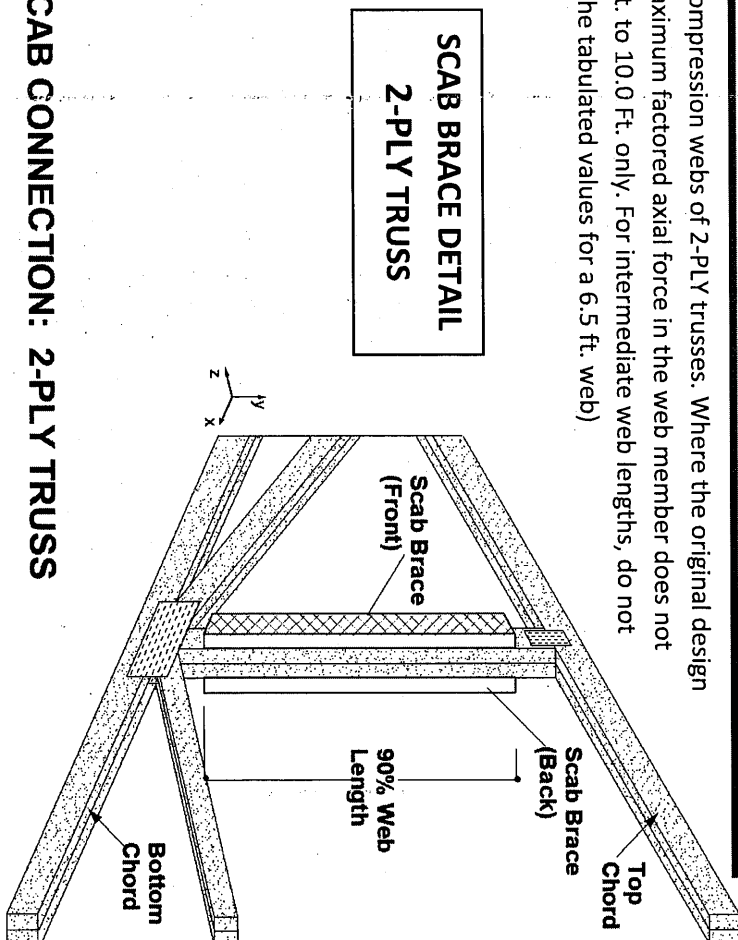


ALTERNATIVE WEB BRACING SOLUTIONS

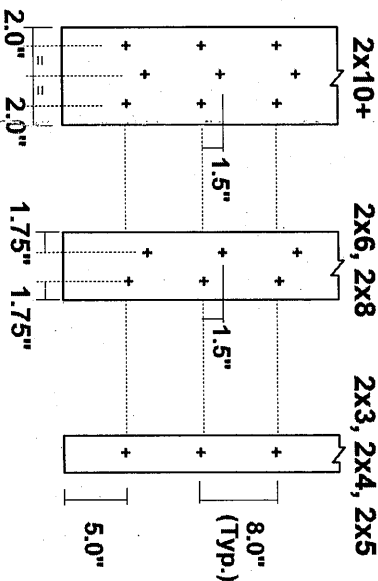
The scab brace detail shown on this page provides an alternative method of bracing compression webs of 2-PLY trusses. Where the original design calls for web bracing, the scab brace is an acceptable alternative provided that the maximum factored axial force in the web member does not exceed the tabulated values shown below. This detail applies to web lengths of 4.0 ft. to 10.0 ft. only. For intermediate web lengths, do not interpolate, use the tabulated value of the longer length. (ex. For a 6.25 ft. web, use the tabulated values for a 6.5 ft. web)

Maximum factored web force, lbs (2-Ply Truss)					
Web size	2x3	2x4	2x5	2x6	2x8+
4.0	8663	12128	15593	19058	25122
4.5	7588	10623	13659	16694	22006
5.0	6570	9198	11826	14455	19054
5.5	5645	7903	10162	12420	16371
6.0	4830	6762	8694	10626	14007
6.5	4126	5776	7426	9077	11965
7.0	3526	4937	6347	7758	10226
7.5	3020	4228	5436	6644	8758
8.0	2594	3632	4670	5708	7524
8.5	2235	3128	4022	4916	6480
9.0	1933	2706	3479	4253	5606
9.5	1680	2352	3024	3696	4872
10.0	1467	2054	2640	3227	4254

SCAB CONNECTION: 2-PLY TRUSS

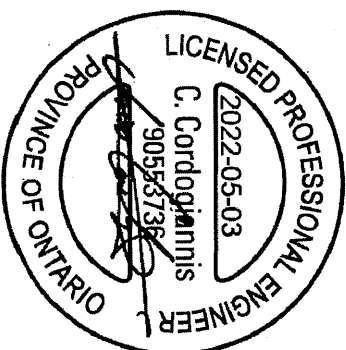


- NOTES:**
- This detail **CANNOT** be used to repair damaged webs.
 - Scab sizes must be equal to web size (i.e. use a 2x6 scab on a 2x6 web, etc.).
 - Scabs & web lumber must be DRY ($\leq 19\%$ moisture content) at time of installation.
 - Scabs must cover 90% of the entire length of web and installed on both faces.
 - This detail shall NOT apply to vertical webs used for girder load transfer.
 - Web & scab lumber to be SPF No. 2 (or better) grade.
 - This detail is for webs loaded axially only (not for axial/bending members).
 - Ensure scabs will not interfere with incoming trusses, prior to using this detail.
 - Tabulated resistances are for standard load duration only ($K_D=1.0$) and DRY service conditions ($K_S=1.0$). Do not use detail for WET service applications.
 - This detail shall be used only in conjunction with sealed MiTek truss drawings.



+ MITEK MIFLK006 Screw @ 8 in. cc

Note: Connect scabs to truss along their entire length.



PEO
Certificate No. 10889485

LUS — Double-Shear Joist Hangers

SIMPSON
Strong-Tie

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

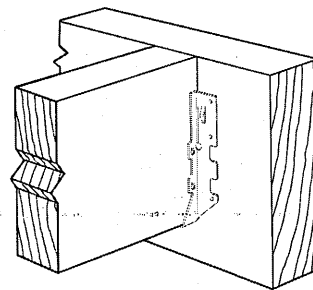
Finish: G90 galvanized

Design:

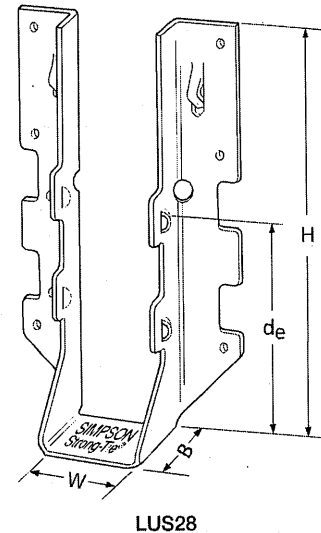
- Factored resistances are in accordance with CSA O86-14 and CSA O86:19.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

Installation:

- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3½" long common wire,
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



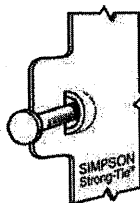
Typical LUS
Installation



LUS28

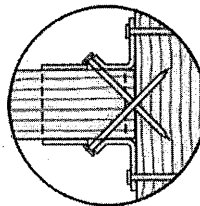
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift	Normal	Uplift	Normal
								(K _p =1.15)	(K _p =1.00)	(K _p =1.15)	(K _p =1.00)
LUS24	18	1⅞	3⅞	1¾	1⅝	(4) 10d	(2) 10d	710	1630	645	1155
LUS24-2	18	3⅞	3⅞	2	1⅝	(4) 16d	(2) 16d	835	2020	590	1435
LUS26	18	1⅞	4¾	1¾	3⅞	(4) 10d	(4) 10d	1420	2170	1290	1630
LUS26-2	18	3⅞	4¾	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
LUS26-3	18	4⅞	4¾	2	3¼	(4) 16d	(4) 16d	1720	2595	1545	2340
LUS28	18	1⅞	6⅞	1¾	3¾	(6) 10d	(6) 10d	1420	2520	1290	1790
LUS28-2	18	3⅞	7	2	4	(6) 16d	(4) 16d	1720	3325	1545	2575
LUS28-3	18	4⅞	6¼	2	3¼	(6) 16d	(4) 16d	1720	3325	1545	2375
LUS210	18	1⅞	7⅝	1¾	3⅞	(8) 10d	(4) 10d	1420	2785	1290	2210
LUS210-2	18	3⅞	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
LUS210-3	18	4⅞	8⅝	2	5¼	(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.

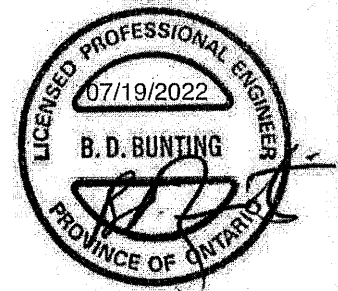


Dome double-shear nailing prevents tabs breaking off (available on some models).

US Patent
5,603,580



Double-shear nailing top view.



This technical bulletin is effective until December 31, 2024, and reflects information available as of July 1, 2022. This information is updated periodically and should not be relied upon after December 31, 2024. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

© 2022 Simpson Strong-Tie Company, Inc. • P.O. Box 10789, Pleasanton, CA 94588

T-SPEC LUS22 7/22 exp. 12/24

(800) 999-5099
strongtie.com

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:

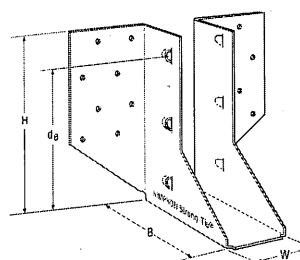
- Factored resistances are in accordance with CSA O86-14 and CSA O86:19.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

Installation:

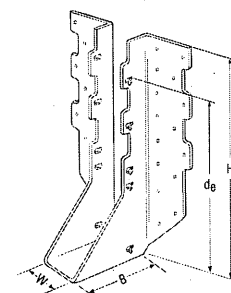
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3½" long common wire
- Double-shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

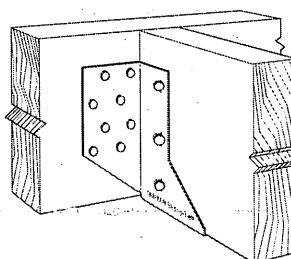
- See current catalogue for options



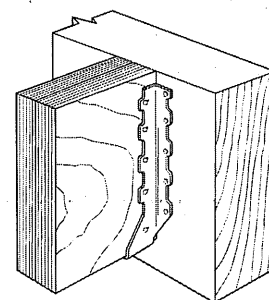
LJS26DS



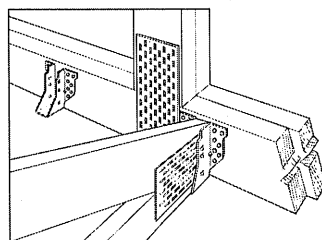
HUS210
(HUS26, HUS28, similar)



Typical LJS26DS
Installation



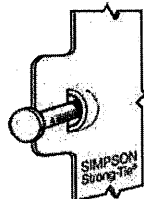
Typical HUS
Installation



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

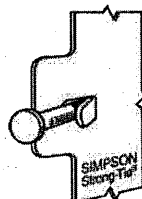
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _g ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K _o =1.15)	Normal (K _o =1.00)	Uplift (K _o =1.15)	Normal (K _o =1.00)
LJS26DS	18	1⅞	5	3½	4⅝	(16) 16d	(6) 16d	2055	4265	1460	4115
HUS26	16	1⅞	5⅝	3	3⅞	(14) 16d	(6) 16d	2705	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_g is the distance from the seat of the hanger to the highest joist nail.

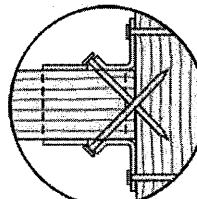


Dome double-shear nailing prevents tabs breaking off (available on some models).

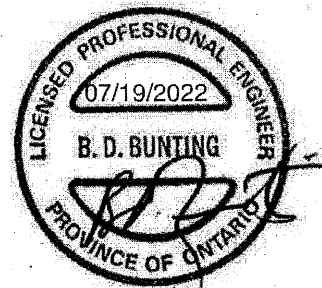
US Patent 5,603,580



Double-shear nailing side view. Do not bend tab back.



Double-shear nailing top view.



This technical bulletin is effective until December 31, 2024, and reflects information available as of July 1, 2022. This information is updated periodically and should not be relied upon after December 31, 2024. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

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T-SPECHUS22 7/22 exp. 12/24

(800) 999-5099
strongtie.com

HGUS — Double-Shear Joist Hangers

SIMPSON
Strong-Tie

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:

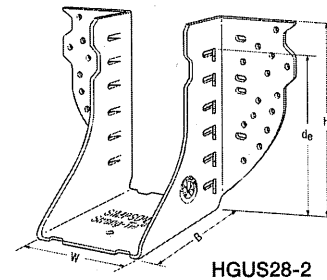
- Factored resistances are in accordance with CSA O86-14 and CSA O86:19.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

Installation:

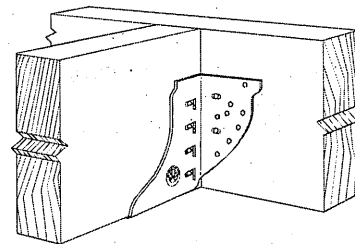
- Use all specified fasteners
- Nails: 16d = 0.162" dia x 3 1/2" long common wire
- Double-shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

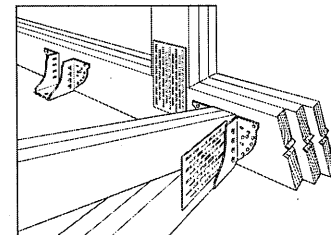
- See current catalogue for options



HGUS28-2



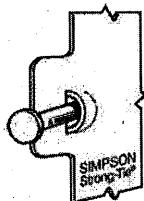
Typical HGUS Installation



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

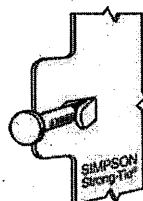
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K _o =1.15)	Normal (K _o =1.00)	Uplift (K _o =1.15)	Normal (K _o =1.00)
HGUS26	12	1 5/8	5 3/8	5	4 5/32	(20) 16d	(8) 16d	2685	6625	2685	5700
HGUS26-2	12	3 5/16	5 7/16	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS26-3	12	4 15/16	5 1/2	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS26-4	12	6 9/16	5 7/16	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS28	12	1 5/8	7 1/8	5	6 1/8	(36) 16d	(12) 16d	3310	7675	3100	6900
HGUS28-2	12	3 5/16	7 7/16	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS28-3	12	4 15/16	7 1/4	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS28-4	12	6 9/16	7 7/16	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS210-2	12	3 5/16	9 9/16	4	8 1/8	(46) 16d	(16) 16d	6840	14015	4855	10270
HGUS210-3	12	4 15/16	9 1/4	4	8 3/8	(46) 16d	(16) 16d	6840	14645	4855	10400
HGUS210-4	12	6 9/16	9 9/16	4	8 1/8	(46) 16d	(16) 16d	6840	14645	4855	10400
HGUS212-4	12	6 9/16	10 3/8	4	10 1/8	(56) 16d	(20) 16d	7640	14995	5425	10645
HGUS214-4	12	6 9/16	12 5/8	4	11 1/8	(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.

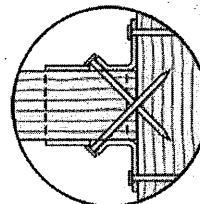


Dome double-shear nailing prevents tabs breaking off (available on some models).

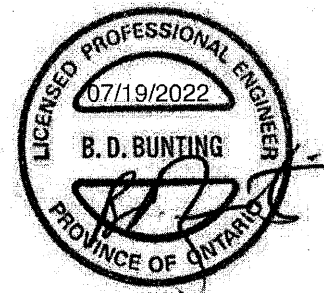
US Patent
5,603,580



Double-shear nailing side view. Do not bend tab back.



Double-shear nailing top view.



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HGUS — Double-Shear Joist Hangers

SIMPSON
Strong-Tie

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:

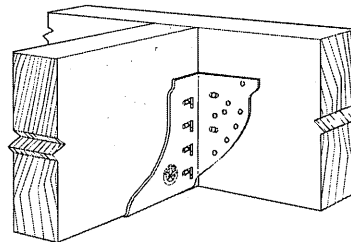
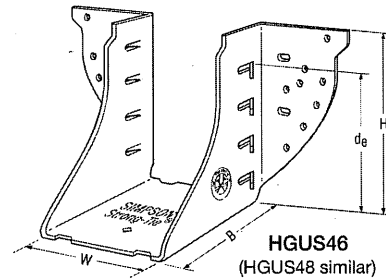
- Factored resistances are in accordance with CSA O86-14 and CSA O86:19.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

Installation:

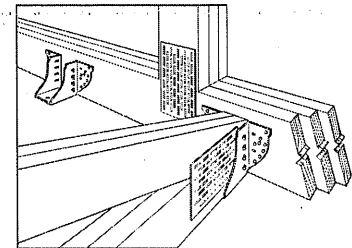
- Use all specified fasteners
- Nails: 16d = 0.162" dia x 3 1/2" long common wire
- Double-shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

- See current catalogue for options



Typical HGUS Installation

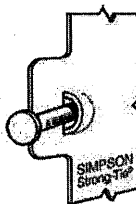


Typical HGUS Installation

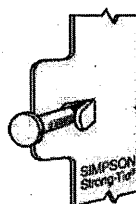
(Truss designer to provide fastener quantity for connecting multiple members together)

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 _p =1.15)	Normal (K _p =1.00)	Uplift (K _p =1.15)	Normal (K _p =1.00)
HGUS48	12	3 3/8	7 1/8	4	6 1/16	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS410	12	3 3/8	9	4	8 1/16	(46) 16d	(16) 16d	6840	14015	4855	10270
HGUS412	12	3 3/8	10 7/16	4	10 1/16	(56) 16d	(20) 16d	7640	14995	5425	10645
HGUS414	12	3 3/8	12 7/16	4	11 1/16	(66) 16d	(22) 16d	10130	16400	7195	11645
HGUS5.50/8	12	5 1/2	6 15/16	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS5.50/10	12	5 1/2	8 15/16	4	8 1/8	(46) 16d	(16) 16d	6840	14645	4855	10400
HGUS5.50/12	12	5 1/2	10 1/2	4	10 1/8	(56) 16d	(20) 16d	7640	14995	5425	10645
HGUS5.50/14	12	5 1/2	12 1/2	4	11 1/8	(66) 16d	(22) 16d	10130	16400	7195	11645
HGUS7.25/8	12	7 1/4	7 3/2	4	6 13/32	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS7.25/10	12	7 1/4	8 3/8	4	8 1/4	(46) 16d	(16) 16d	6840	15760	4855	11190
HGUS7.25/12	12	7 1/4	10 3/8	4	10 1/4	(56) 16d	(20) 16d	7640	16110	5425	11435
HGUS7.25/14	12	7 1/4	12 3/8	4	11 1/4	(66) 16d	(22) 16d	10130	18200	7195	12920

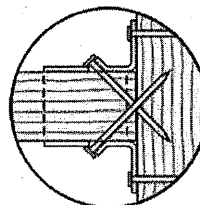
1. d_e is the distance from the seat of the hanger to the highest joist nail.



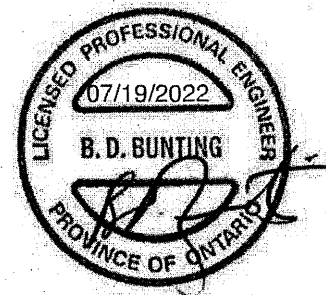
Dome double-shear nailing prevents tabs breaking off (available on some models).
US Patent 5,603,580



Double-shear nailing side view. Do not bend tab back.



Double-shear nailing top view.



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(800) 999-5099
strongtie.com

H — Seismic and Hurricane Ties

SIMPSON
Strong-Tie

The H connector series provides wind and seismic ties for trusses and rafters.

Material: 18 gauge

Finish: G90 galvanized

Design:

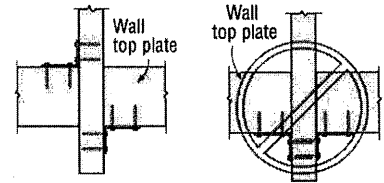
- Factored resistances are in accordance with CSA O86-14 and CSA O86:19.
- Factored resistances have been increased 15%. No further increase is permitted.

Installation:

- Use all specified fasteners
- Nails: $8d = 0.131"$ dia. x $2\frac{1}{2}"$ long common wire, $8d \times 1\frac{1}{2}" = 0.131" \times 1\frac{1}{2}"$ long, $10d \times 1\frac{1}{2}" = 0.146" \times 1\frac{1}{2}"$ long
- H1 can be installed with flanges facing outwards
- Hurricane ties do not replace solid blocking

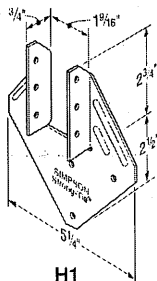
Factored resistances for more than one direction for a single connection cannot be added together. A factored load which can be divided into components in the directions given must be evaluated as follows: Factored Shear/Resisting Shear + Factored Tension/Resisting Tension ≤ 1.0 .

Hurricane Tie Installations to Achieve Twice the Load (Top View)

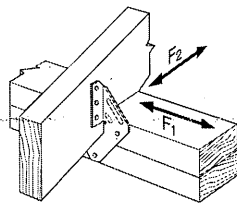


Install diagonally across from each other for minimum 2x truss.

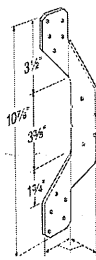
Nailing into both sides of a single ply 2x truss may cause the wood to split.



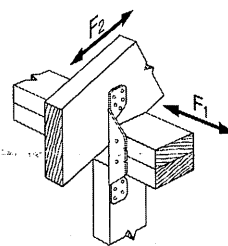
H1



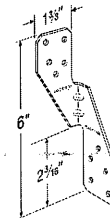
H1 Installation



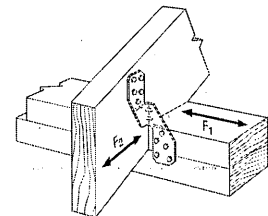
H2A



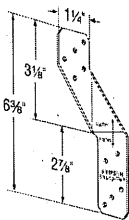
H2A Installation



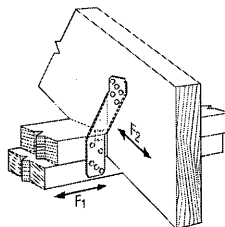
H2.5A



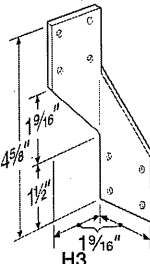
H2.5A Installation



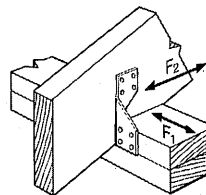
H2.5T



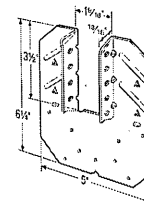
H2.5T Installation
(Nails into both top plates)



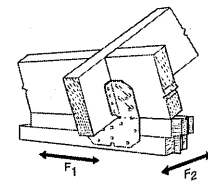
H3



H3 Installation



H10A

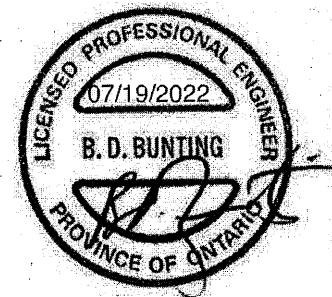


H10A Installation

Model No.	Ga.	Fasteners			Factored Resistance (lb.)					
					D.Fir-L			S-P-F		
		To Rafter	To Plates	To Studs	Uplift	Normal		Uplift	Normal	
						F ₁	F ₂		F ₁	F ₂
						(K _b =1.15)			(K _b =1.15)	
H1	18	(6) 8d x 1 1/2"	(4) 8d	—	740	685	300	680	485	215
H2A	18	(5) 8d x 1 1/2"	(2) 8d x 1 1/2"	(5) 8d x 1 1/2"	830	220	75	590	155	55
H2.5A	18	(5) 8d	(5) 8d	—	805	160	160	755	160	160
H2.5T	18	(5) 8d	(5) 8d	—	835	175	240	740	160	210
H3	18	(4) 8d	(4) 8d	—	740	180	265	615	125	190
H10A	18	(9) 10d x 1 1/2"	(9) 10d x 1 1/2"	—	1735	795	410	1505	565	290

1. Factored resistances have been increased 15% for earthquake or wind loading with no further increase allowed.
2. Factored resistances are for one anchor. A minimum rafter thickness of 2 1/2" must be used when framing anchors are installed on each side of the joist and on the same side of the plate.

3. When cross-grain bending or cross-grain tension cannot be avoided, mechanical reinforcement to resist such forces should be considered.
4. Hurricane ties are shown installed on the outside of the wall for clarity. Installation on the inside of the wall is acceptable. For a Continuous Load Path, connections must be on same side of the wall.



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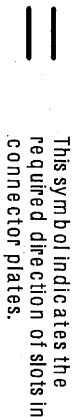
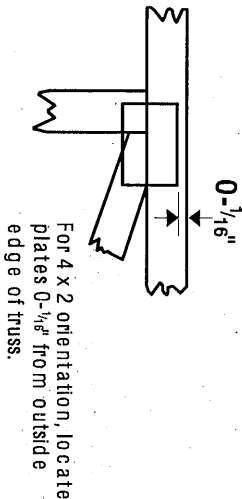
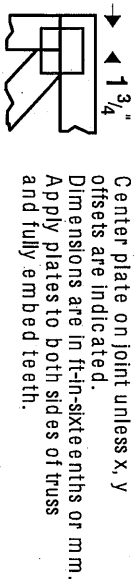
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strongtie.com

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

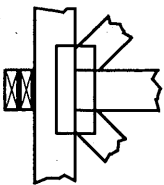
4 X 4

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

LATERAL BRACING LOCATION



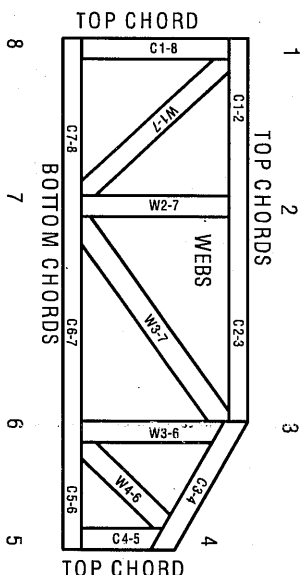
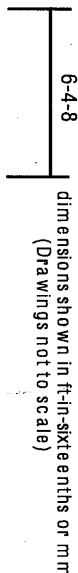
BEARING



Industry Standards:

TPIC: Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

CCMC Reports:

11996-L, 10319-L, 13270-L, 12691-R

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by TPIC.
7. Design assumes trusses will be suitably protected from the environment in accord with TPIC.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with TPIC Quality Criteria.

Mi
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Mitek Engineering Reference Sheet: MII-7473C rev. 10-08