

5-00-00

[illegible]

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

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



Job Track:	51012
Plan Log:	201982
Layout ID:	406513

ROYAL PINE HOMES / RICHMOND HILL

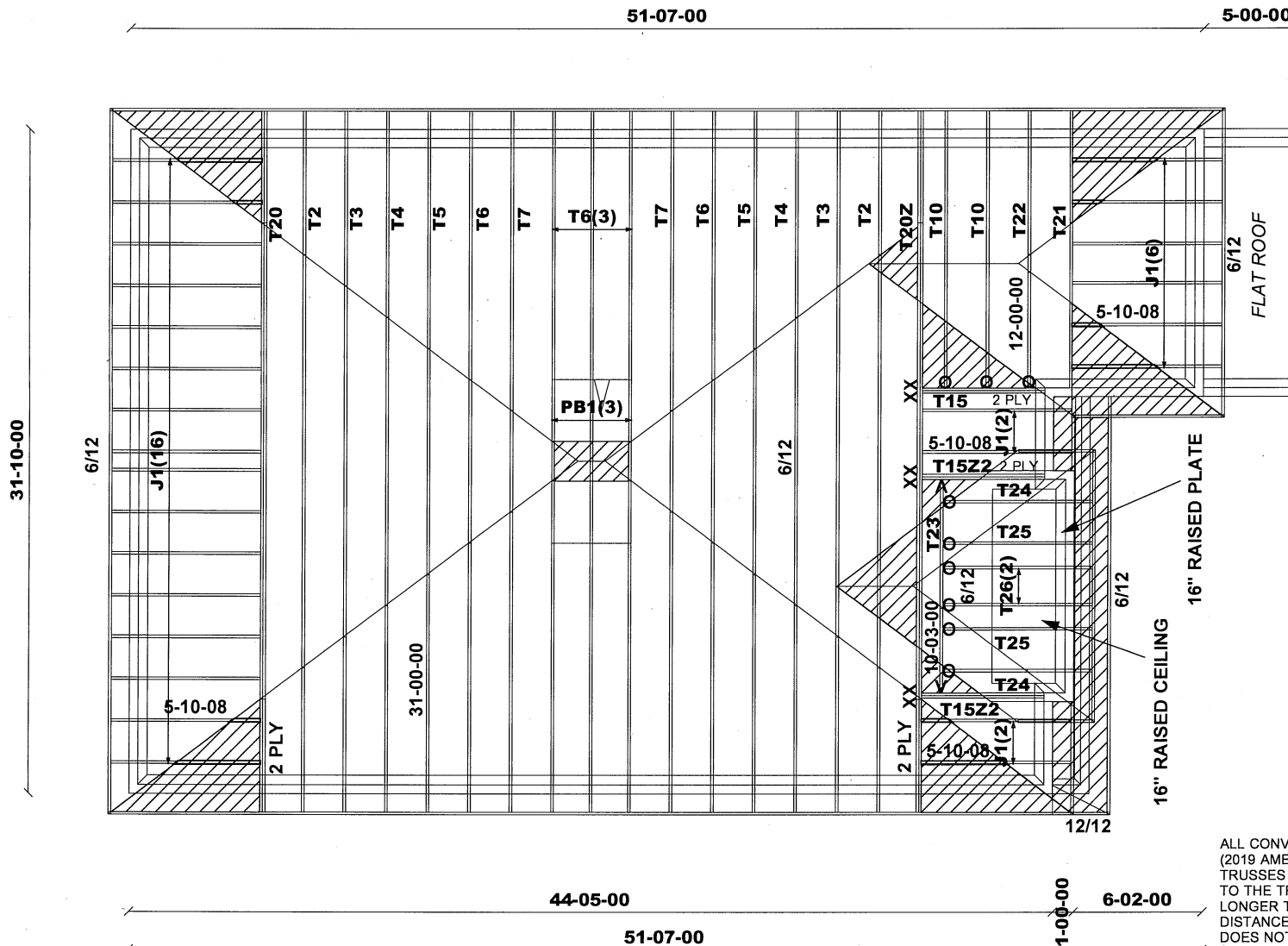
38-11 / A Belvedere

Project: **CENTREFIELD**

Date: 2020-10-14	Sales: Mario DiCano	Designer: LC
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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

Mitek ver 8.3.3.24

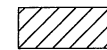


ALL ROOF PITCHES ARE 8/12
UNLESS OTHERWISE NOTED

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

HARDWARE:
LUS24 - (O)
LJS26DS - (V)
HGUS26-2 - (XX)

DENOTES
CONV.
FRAMING



DESIGN CONFORMS WITH
OBC 2012
(2019 AMENDMENT)
OCCUPANCY: RESIDENTIAL
PART: 9
Ss = 31.3 psf Sr = 8.4 psf

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

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



Job Track: **51012**
Plan Log: **201982**
Layout ID: **406514**

Builder / Location:

ROYAL PINE HOMES / RICHMOND HILL

Model / Elevation:

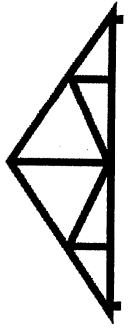
38-11 / B Belvedere

Project: **CENTREFIELD**

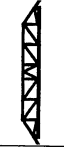
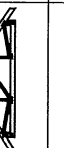
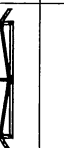
Date: **2021-06-04** Sales: **Mario DiCano** Designer: **LC**

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TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER
PURPOSE.

Mitek ver 8.4.2.286

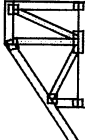
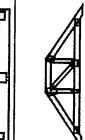
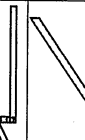
DELIVERY SHIPLIST			
 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; vertical-align: top;"> Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: 38-11 Lot #: Elevation: A </td> <td style="width: 50%; border: none; vertical-align: top;"> Job Track: 51012 PlanLog: 201982 Layout ID: 406513 Ref #: 1 of 2 Page: 10-14-2020 Date: Leo Chen Designer: Mario DiCano Sales Rep: </td> </tr> </table>	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: 38-11 Lot #: Elevation: A	Job Track: 51012 PlanLog: 201982 Layout ID: 406513 Ref #: 1 of 2 Page: 10-14-2020 Date: Leo Chen Designer: Mario DiCano Sales Rep:
Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: 38-11 Lot #: Elevation: A	Job Track: 51012 PlanLog: 201982 Layout ID: 406513 Ref #: 1 of 2 Page: 10-14-2020 Date: Leo Chen Designer: Mario DiCano Sales Rep:		

Roof Trusses

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

DELIVERY SHIPLIST	
 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: 38-11 Lot #: Elevation: A Job Track: 51012 PlanLog: 201982 Layout ID: 406513 Ref #: 2 of 2 Page: 10-14-2020 Date: Designer: Leo Chen Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	2 2-ply	T14 Half Hip	8 /12	3-08-08	2-10-08	2 x 4	1-03-08	1-04-13 2-10-08	81.2 58.00		
	1 2-ply	T15 Monopitch Girder	6 /12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	58.39 37.67		
	1 2-ply	T15Z Monopitch Girder	6 /12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	58.39 37.67		
	3	PB1 Piggyback	8 /12	7-10-11	2-00-00	2 x 4			64.14 43.00		
	18	J1 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	302.3 192.00		
	4	J2 Jack-Open	8 /12	3-08-08	3-10-08	2 x 4	1-03-08	1-04-13 3-10-08	55 36.00		

TOTAL # TRUSS= 63

TOTAL BFT OF ALL TRUSSES= 2351.67

BFT:

TOTAL WEIGHT OF ALL TRSSES 3732.54 LBS

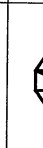
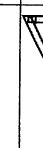
HARDWARE

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

TOTAL NUMBER OF ITEMS= 11

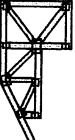
 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP		DELIVERY SHIPLIST	
Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: 38-11 Lot #: Elevation: B	Job Track: 51012 PlanLog: 201982 Layout ID: 406514 Ref # 1 of 2 Page: 10-14-2020 Date: Designer: Leo Chen Sales Rep: Mario DiCano		

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	2	T2 Hip	8 /12	31-00-00	5-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	255.62 161.00		
	2	T3 Hip	8 /12	31-00-00	6-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	269.73 168.67		
	2	T4 Hip	8 /12	31-00-00	7-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	267.35 169.67		
	2	T5 Hip	8 /12	31-00-00	8-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	279.9 175.33		
	5	T6 Hip	8 /12	31-00-00	9-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	699.7 436.67		
	2	T7 Hip	8 /12	31-00-00	10-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	285.16 178.67		
	2	T10 Common	8 /12	12-00-00	5-04-13	2 x 4	1-03-08	1-04-13 1-04-13	95.3 58.33		
	1 2-ply	T15 Monopitch Girder	6 /12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	58.39 37.67		
	2 2-ply	T15Z2 Monopitch Girder	6 /12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	116.79 75.33		
	1 2-ply	T20 Hip Girder	8 /12	31-00-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	302.41 191.33		
	1 2-ply	T20Z Hip Girder	8 /12	31-00-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	302.41 191.33		
	1	T21 Hip Girder	8 /12	12-00-00	4-01-04	2 x 4	1-03-08	1-04-13 1-04-13	51.14 33.83		
	1	T22 Hip	8 /12	12-00-00	5-01-04	2 x 4	1-03-08	1-04-13 1-04-13	54.15 34.50		
	1	T23 Hip Girder	8 /12	10-03-00	5-07-04	2 x 4 2 x 6		2-10-13 2-10-13	60.1 41.00		

DELIVERY SHIPLIST			
 TAMARACK ROOF TRUSSES INC. — ALPHA LUMBER GROUP —	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: 38-11 Lot #: Elevation: B </td> <td style="width: 50%; vertical-align: top;"> Job Track: 51012 PlanLog: 201982 Layout ID: 406514 Ref #: 2 of 2 Page: 10-14-2020 Date: Designer: Leo Chen Sales Rep: Mario DiCano </td> </tr> </table>	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: 38-11 Lot #: Elevation: B	Job Track: 51012 PlanLog: 201982 Layout ID: 406514 Ref #: 2 of 2 Page: 10-14-2020 Date: Designer: Leo Chen Sales Rep: Mario DiCano
Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: 38-11 Lot #: Elevation: B	Job Track: 51012 PlanLog: 201982 Layout ID: 406514 Ref #: 2 of 2 Page: 10-14-2020 Date: Designer: Leo Chen Sales Rep: Mario DiCano		

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	2	T24 Half Hip	6 /12	5-10-08	3-06-13	2 x 4	1-03-08	1-02-00 3-06-13	63.8 44.67		
	2	T25 Half Hip	6 /12	5-10-08	4-10-13	2 x 4	1-03-08	1-02-00 4-10-13	74.51 50.67		
	2	T26 Monopitch	6 /12	5-10-08	5-07-04	2 x 4	1-03-08	1-02-00 5-07-04	70.83 46.67		
	3	PB1 Piggyback	8 /12	7-10-11	2-00-00	2 x 4			64.14 43.00		
	26	J1 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	436.66 277.33		

TOTAL # TRUSS= 65

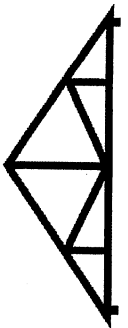
TOTAL BFT OF ALL TRUSSES= 2415.67

TOTAL WEIGHT OF ALL TRSSES 3808.09 LBS

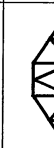
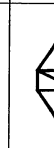
HARDWARE

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

TOTAL NUMBER OF ITEMS= 14

 TAMARACK ROOF TRUSSES INC. — ALPHA LUMBER GROUP		DELIVERY SHIPLIST	
Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: 38-11 Lot #: Elevation: C	Job Track: 51012 PlanLog: 201982 Layout ID: 413426 Ref # Page: 1 of 2 Date: 10-14-2020 Designer: Leo Chen Sales Rep: Mario DiCano		

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	2	T2 Hip	8 /12	31-00-00	5-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	255.62 161.00		
	2	T3 Hip	8 /12	31-00-00	6-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	269.73 168.67		
	2	T4 Hip	8 /12	31-00-00	7-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	267.35 169.67		
	2	T5 Hip	8 /12	31-00-00	8-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	279.9 175.33		
	5	T6 Hip	8 /12	31-00-00	9-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	699.7 436.67		
	2	T7 Hip	8 /12	31-00-00	10-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	285.16 178.67		
	2 2-ply	T15Z3 Monopitch Girder	6 /12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	116.79 75.33		
	1 2-ply	T20 Hip Girder	8 /12	31-00-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	302.41 191.33		
	1 2-ply	T20Z2 Hip Girder	8 /12	31-00-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	302.41 191.33		
	2	T31 Hip	8 /12	12-00-00	4-07-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	107.31 69.00		
	1	T31Z Hip Girder	8 /12	12-00-00	4-07-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	53.65 34.50		
	1	T32 Hip	8 /12	12-00-00	3-03-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	49.04 31.50		
	1	T33 Hip	8 /12	12-00-00	1-11-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	45.92 29.67		
	1	T34 Common	8 /12	11-09-00	6-02-05	2 x 4	1-03-08	1-04-13 3-01-13	52.02 32.50		

DELIVERY SHIPLIST			
TAMARACK ROOF TRUSSES INC. — ALPHA LUMBER GROUP —	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: 38-11 Lot #: Elevation: C </td> <td style="width: 50%; vertical-align: top;"> Job Track: 51012 PlanLog: 201982 Layout ID: 413426 Ref #: 2 of 2 Page: 10-14-2020 Date: Leo Chen Designer: Mario DiCano Sales Rep: </td> </tr> </table>	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: 38-11 Lot #: Elevation: C	Job Track: 51012 PlanLog: 201982 Layout ID: 413426 Ref #: 2 of 2 Page: 10-14-2020 Date: Leo Chen Designer: Mario DiCano Sales Rep:
Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: 38-11 Lot #: Elevation: C	Job Track: 51012 PlanLog: 201982 Layout ID: 413426 Ref #: 2 of 2 Page: 10-14-2020 Date: Leo Chen Designer: Mario DiCano Sales Rep:		

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	T35 Hip Girder	8 /12	9-08-00	4-01-04	2 x 4		1-04-13 1-04-13	43.03 30.00		
	1 2-ply	T36 Monopitch Girder	0 /12	5-10-08	1-07-00	2 x 4		1-07-00 1-07-00	41.89 25.67		
	3	PB1 Piggyback	8 /12	7-10-11	2-00-00	2 x 4			64.14 43.00		
	25	J1 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	419.88 266.67		
	2	J31 Jack-Open	8 /12	4-10-08	4-07-13	2 x 4	1-03-08	1-04-13 4-07-13	33.36 20.67		
	2	C31 Jack-Open	8 /12	1-10-15	2-08-02	2 x 4	1-03-08 1-01	1-04-13 2-08-02	18.68 12.67		
	2	C32 Jack-Open	8 /12	2-00-00	4-00-02	2 x 4	1-03-08 1-10-15	1-04-13 2-08-13	24.16 15.33		
	2	C33 Jack-Open	8 /12	1-10-15	2-08-02	2 x 4	1-03-08 2-11-09	1-04-13 2-08-02	25.24 16.67		
	2	C34 Jack-Open	8 /12	3-10-15	4-00-02	2 x 4	1-03-08 11-09	1-04-13 4-00-02	30.72 19.33		
TOTAL # TRUSS= 70			TOTAL BFT OF ALL TRUSSES= 2395.18			BFT.			TOTAL WEIGHT OF ALL TRSSES 3788.08 LBS		

HARDWARE

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

TOTAL NUMBER OF ITEMS= 6

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

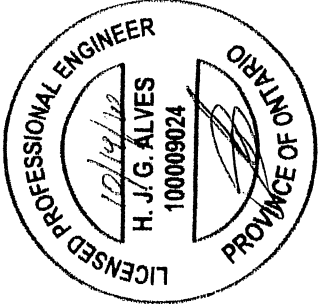
Version 8.330 S May 6 2020 MITek Industries, Inc. Wed Oct 14 10:41:38 2020 Page 2
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PLATES (table is in inches)									
JT	TYPE	PLATES	W	LEN	Y	X			
B	TMVW-p	MT20	5.0	6.0	1.50	3.00			
C	TTWV-m	MT20	5.0	8.0	1.75	3.00			
D	F, I								
E	TMVW-t	MT20	4.0	4.0					
G	TMVW-w	MT20	2.0	4.0					
H	TS-t	MT20	3.0	6.0					
J	TTWV-m	MT20	5.0	8.0	1.75	3.00			
K	TMVW-p	MT20	5.0	6.0	1.50	3.00			
M	BMV1-p	MT20	3.0	6.0					
N	O, S, T								
N	BMVW-t	MT20	5.0	6.0					
P	BMVWV-t	MT20	5.0	8.0					
Q	BS-t	MT20	5.0	6.0					
R	BMV1-p	MT20	5.0	8.0					
U	BMV1-p	MT20	3.0	6.0					

LOADING TOTAL LOAD CASES: (4)									
CHORDS									
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRAC LENGTH FR-TO	MEMB. FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	HEEL	CONN.
FR-TO	0 0	-18.5	-18.5	0.04 (4)	10.00				
AP-AQ	0 0	-18.5	-18.5	0.04 (4)	10.00				
AC-M	0 0	-18.5	-18.5	0.04 (4)	10.00				
SPECIFIED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	4-0-11	-40	-40		FRONT	VERT	DEAD		C1
C	4-0-11	-169	-169		FRONT	VERT	SNOW		C1
D	9-0-12	-76	-76		FRONT	VERT	TOTAL		C1
H	19-11-4	-76	-76		FRONT	VERT	TOTAL		C1
I	21-11-4	-76	-76		FRONT	VERT	TOTAL		C1
J	28-11-5	-40	-40		FRONT	VERT	DEAD		C1
J	28-11-5	-169	-169		FRONT	VERT	SNOW		C1
O	21-11-4	-21	-21		FRONT	VERT	TOTAL		C1
S	15-11-4	-21	-21		FRONT	VERT	TOTAL		C1
S	9-0-12	-21	-21		FRONT	VERT	TOTAL		C1
V	7-0-12	-76	-76		FRONT	VERT	TOTAL		C1
W	11-0-12	-76	-76		FRONT	VERT	TOTAL		C1
X	13-0-12	-76	-76		FRONT	VERT	TOTAL		C1
Y	15-0-12	-76	-76		FRONT	VERT	TOTAL		C1
Z	15-11-4	-76	-76		FRONT	VERT	TOTAL		C1
AA	17-11-4	-76	-76		FRONT	VERT	TOTAL		C1
AB	23-11-4	-76	-76		FRONT	VERT	TOTAL		C1
AC	25-11-4	-76	-76		FRONT	VERT	TOTAL		C1
AD	25-11-4	-76	-76		FRONT	VERT	TOTAL		C1
AE	1-0-12	-21	-21		FRONT	VERT	TOTAL		C1
AF	3-0-12	-21	-21		FRONT	VERT	TOTAL		C1
AG	5-0-12	-21	-21		FRONT	VERT	TOTAL		C1
AH	7-0-12	-21	-21		FRONT	VERT	TOTAL		C1
AI	11-0-12	-21	-21		FRONT	VERT	TOTAL		C1
AJ	13-0-12	-21	-21		FRONT	VERT	TOTAL		C1
AK	15-0-12	-21	-21		FRONT	VERT	TOTAL		C1
AL	17-11-4	-21	-21		FRONT	VERT	TOTAL		C1
AM	19-11-4	-21	-21		FRONT	VERT	TOTAL		C1
AN	23-11-4	-21	-21		FRONT	VERT	TOTAL		C1
AO	25-11-4	-21	-21		FRONT	VERT	TOTAL		C1
AP	27-11-4	-21	-21		FRONT	VERT	TOTAL		C1
AQ	29-11-4	-21	-21		FRONT	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

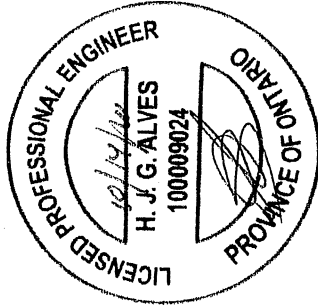


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
406513	T1Z	1	2	TRUSS DESC.		
Tamarack Roof Truss, Burlington						

Version 8.330 S May 6 2020 Mitek Industries, Inc. Wed Oct 14 10:41:39 2020 Page 2
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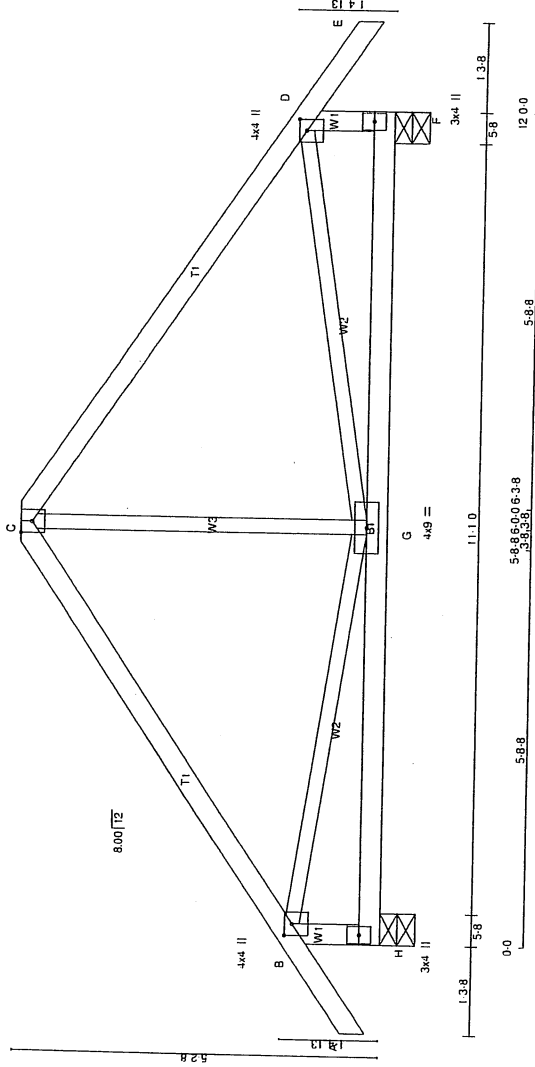
PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-P	MT20	5.0	6.0	1.50	3.00
C	TMVW-m	MT20	6.0	9.0	1.75	3.75
D	TMVW-l	MT20	5.0	6.0		
E	TMVW-w	MT20	2.0	4.0		
F	TMVW-l	MT20	4.0	4.0		
G	TMVW-w	MT20	2.0	4.0		
H	TS-l	MT20	3.0	6.0		
I	TMVW-l	MT20	5.0	6.0		
J	TMVW-m	MT20	6.0	9.0	1.75	3.75
K	TMVW-p	MT20	5.0	6.0	1.50	3.00
M	BMV1-P	MT20	3.0	6.0		
N	BMVW-l	MT20	5.0	6.0		
O	BMVW-l	MT20	5.0	6.0	2.50	2.25
P	BMVWW-l	MT20	5.0	8.0		
Q	BS-l	MT20	5.0	6.0		
R	BMVWW-l	MT20	5.0	8.0		
S	BMVW-l	MT20	5.0	6.0	2.50	2.25
T	BMVW-l	MT20	5.0	6.0		
U	BMV1-P	MT20	3.0	6.0		



Structural component only
 DWG# T-2022154 *ef*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
406513	T10CP	1	1	TRUSS DESC.		
Tamarack Roof Truss, Burlington						
Version 8.330 S May 6 2020 MTK Industries, Inc. Wed Oct 14 10:41:46 2020 Page 1						
ID:8ITckSuAqzVBsz1WqScayyOHpk-aYkoyZPEs1smDDtyoR8ZJ3xq_h7CFcX3kcQpYTXhJ						
5.8, 6.0, 6.3, 8						
1.3, 1.3, 0.0						
5.8, 8						
4.4 II						
12.0, 13.8						
13.8						
Scale = 1/31.3						



DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF

TOP CH. DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

BOT CH. DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. OC

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

THIS DESIGN COMPLETES WITH:

PART 9 OF CBC 2018, CBC 2012, ABC 2019

PART 9 OF CBC 2012 (2019 AMENDMENT)

CSA 086-09, CSA 086-14

TPIC 2011, TPIC 2014

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

ALLOWABLE DEF. (LL) = L/360 (0.40")

CALCULATED VERT. DEF. (LL) = L/999 (0.01")

ALLOWABLE DEF. (TL) = L/360 (0.40")

CALCULATED VERT. DEF. (TL) = L/999 (0.03")

CSI: TC=0.431, 0.0 (B-C-1), BC=0.191, 0.0 (G-H-4), WB=0.091, 0.0 (D-G-1), SS=0.181, 0.0 (B-C-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

MAX MIN MAX MIN

MT20 618 354 1667 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.57 (B) (INPUT = 0.90)

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

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

BEARINGS	FACTORED	MAXIMUM	FACTORED	INPUT	RECORD
JT	VERT	DOWN	HORZ	UPLIFT	BRG
JT	787	0	787	0	IN-SX
F	787	0	787	0	5-8
F	787	0	787	0	5-8

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

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.

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

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED

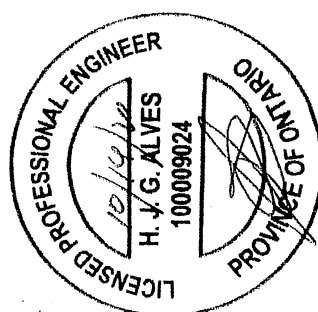
LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MEMB.	MAX. FACTORED
MEMB.	FORCE (LBS)	FROM	TO	CS (LC)	UNBRAC	MEMB.	FORCE (LBS)
FR-TO							
A-B	0 35	-91.8	-91.8	0.12 (1)	10.00	B-G	0 412
B-C	-488 0	-91.8	-91.8	0.43 (1)	6.25	G-D	0 412
C-D	-488 0	-91.8	-91.8	0.43 (1)	6.25	G-C	-9 100
D-E	0 35	-91.8	-91.8	0.12 (1)	10.00		0.03 (4)
H-B	-745 0	0.0	0.0	0.08 (1)	7.81		
F-D	-745 0	0.0	0.0	0.08 (1)	7.81		
H-G	0 0	-18.5	-18.5	0.19 (4)	10.00		
G-F	0 0	-18.5	-18.5	0.19 (4)	10.00		

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

PLATES (table is in inches)	W	LEN	Y	X
B TMVW+p MT20	4.0	4.0	1.25	2.00
C TMTW+p MT20	4.0	4.0	Edge	Edge
D TMVW+p MT20	4.0	4.0	1.25	2.00
F BMV1+p MT20	3.0	4.0		
G BMVW+p MT20	4.0	9.0		
H BMV1+p MT20	3.0	4.0		



Structural component only
DWG# T-2022163

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

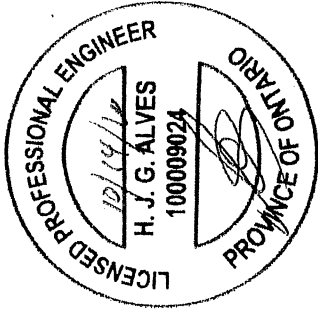
Tamarack Roof Truss, Burlington

Version 8.330 3 May 6 2020 Mitek Industries, Inc. Wed Oct 14 10:41:48 2020 Page 2
ID:8ITcKsuAguzVBsz1WGScaWOhpK-WxSNLaim3la?XNF3DUcek8KanP4gA3pX256nlvTXH-

PLATES (table is in inches)

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

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

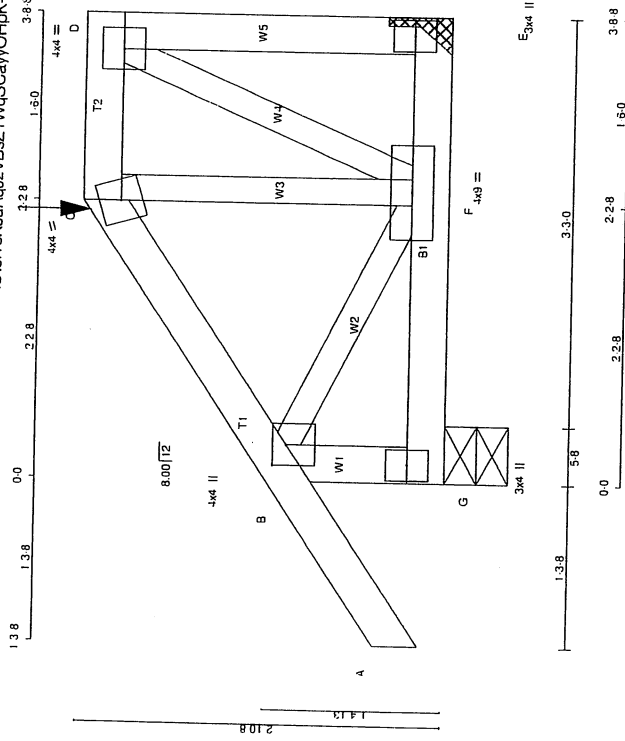


Structural component only
DWG# T-2022166 3/12

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

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 Mitek Industries, Inc. Wed Oct 14 10:41:49 2020 Page 1
ID:8tCksuAqLzVBsz1WgScayvOHpk-77marbIXNORdgyRdx?rAynVKBIGPdxziqgkwyTXhg
Scale = 1:17.3



LUMBER	N. L. G. A. RULES	SIZE	DRY	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	DRY	No.2	SPF
EXCEPT					
DRY: SEASONED LUMBER.					

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

CHORDS	#ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS: (0.122'X3') SPIRAL NAILS			
A-C	1	12	SIDE (71.9)
C-D	1	12	SIDE (66.4)
D-E	1	12	TOP
G-B	1	12	TOP
BOTTOM CHORDS: (0.122'X3') SPIRAL NAILS			
G-E	1	12	SIDE (19.6)
WEBS: (0.122'X3') SPIRAL NAILS			
F-C	1	6	SIDE (2.3)
2x3	1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.
GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3/8 INCH NAILS.

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

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

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

	FACTORED		MAXIMUM FACTORED				INPUT		REQ'D	
	GROSS	REACTION	VERT	HORIZ	GROSS	REACTION	BRG	BRG	IN-SX	IN-SX
JT	617	0	617	0	0	0	0	0	0	0
E	971	0	971	0	0	0	0	0	0	0
G	971	0	971	0	0	0	0	0	0	0

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	MAX. LIVE	MIN. LIVE	COMPONENT REACTIONS	WIND	DEAD	SOIL
GT	436	288	0	0	0	0	148	0
E	680	485	0	0	0	0	195	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				FACTORED				W EBS			
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1	MAX. CS1 (LC)	UNBRAC LENGTH (F-T)	MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1	MAX. CS1 (LC)	UNBRAC LENGTH (F-T)
A-B	0	-101	FROM TO	264.5	0.22 (1)	10.00	F-C	-387	0	0.04 (1)	
B-C	-272	0	264.5	-264.5	0.12 (1)	6.25	F-D	0	442	0.05 (1)	
C-D	-210	0	-264.5	-264.5	0.06 (1)	6.25	B-F	0	249	0.03 (1)	
E-D	-585	0	0.0	0.0	0.05 (1)	7.81					
G-B	-913	0	0.0	0.0	0.05 (1)	7.81					
G-F	0	0	-53.5	-53.5	0.03 (4)	10.00					
F-E	0	0	-53.5	-53.5	0.03 (4)	10.00					

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX	FACE	DIR.	TYPE	HEEL	CONN.
C	2-2-8	-6	-	FRONT	VERT	DEAD	--	C1
C	2-2-8	-26	-	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 =	25.6	PS
	DL =	6.0	PS
BOT CH.	LL =	0.0	PS
	DL =	7.4	PS
TOTAL LOAD	=	39.0	PS
<u>SPACING =</u>		<u>24.0</u>	<u>IN. C/C</u>

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

... NON STANDARD GIRDER ...

ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLES WITH:

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

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

ALLOWABLE DEFLL(LL) = L/360 (0.19")

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

ALLOWABLE DEFLL(TL) = L/360 (0.19")

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

CSI: TC=0.22/1.00 (A-B-5), BC=0.03/1.00 (F-G-4),

WB=0.05/1.00 (D-F-1), SS=0.15/1.00 (A-B-5)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00

COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN

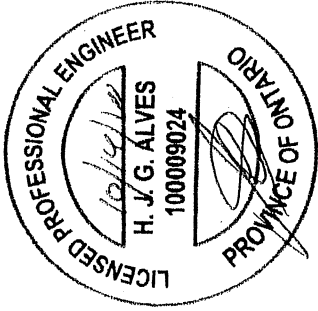
MT20 618 354 1667 788 1967 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.32 (B) (INPUT = 0.90)

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



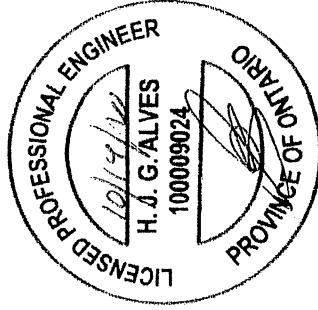
Structural component only
DWG# T-2022167

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
406513	T14	2	2	TRUSS DESC.		
Tamarack Roof Truss, Burlington						

Version 8.330 S May 6 2020 Mitek Industries, Inc. Wed Oct 14 10:41:49 2020 Page 2
 ID:8ITcKsuAqJzVBSz1WgSCawOHpk- 7?marbIXNQrdgvFdx?rAvhVKBlGPdxzlggukvTXnG

PLATES (table is in inches)

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



Structural component only
 DWG# T-2022167 *ny*

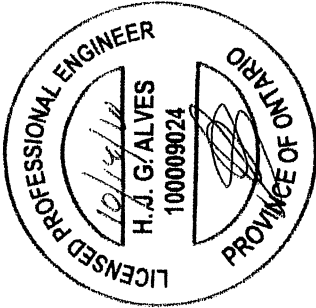
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
406513	T15	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
D	BNWV1+p MT20	4.0	6.0		
E	BNWV1-i MT20	5.0	6.0		
F	BNV1+p MT20	3.0	6.0		

Version 8.330 S May 6 2020 MITek Industries, Inc. Wed Oct 14 10:41:50 2020 Page 2
ID:8ITckSuAqJzVBsz1WgSCayOHdk-SKZ8oTcwIHYEqXeBeW49DJYb2p82i6 MaDsAvTXhF



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

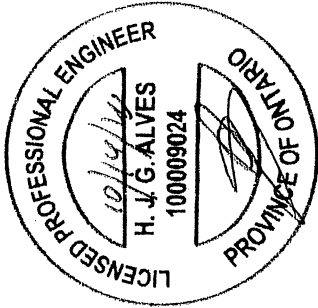
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
406513	T15Z	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
C	TMV+P	3.0	4.0		
D	BMW1+P	4.0	6.0		
E	BMW1+P	5.0	8.0	4.25	2.50
F	BMW1+P	3.0	6.0		

Version 8.330 S May 6 2020 MITek Industries, Inc. Wed Oct 14 10:41:51 2020 Page 2
ID:8ITcKsuAqJzVBsz1WgSCaVvOHPK-wW7W?NgY3_g9s_6dM1JfNnuG?NclJhGD0,InOcvTXhE



Structural component only
DWG# T-2022169 2/1

[illegible]

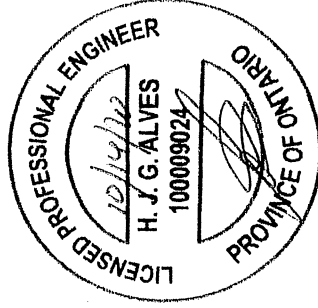
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
406514	T15Z2	2	2	TRUSS DESC.		
Tamarack Roof Truss, Burlington						

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

ID:8ITCkSuAqJzVBSz1WqSCawOHpK-B3dJW1kVn2ELvazAF0UWBz7hzKDem6pUuv7Rm1XQI

PLATES (table is in inches)

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



Structural component only
DWG# T-2022170 *32*

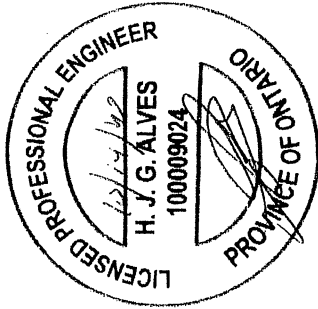
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
413426	T15Z3	2	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

PLATES (table is in inches)

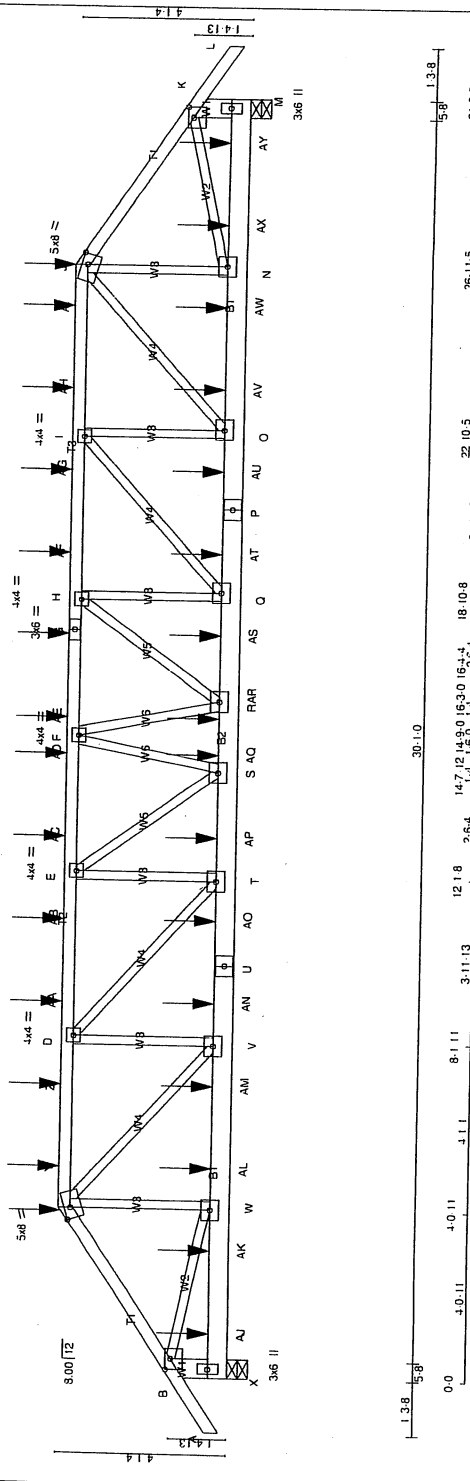
IT TYPE	PLATES	W	LEN	Y	X
D	BMW1+p	MT20	4.0	6.0	
E	BMW1+p	MT20	5.0	6.0	
F	BMW1+p	MT20	3.0	6.0	

Version 8.330 S May 6 2020 MiTek Industries, Inc. Wed Oct 14 11:24:28 2020 Page 2
ID:8ITcKsuAqJzVBsZ1WGScaWOhpK-ZR7AtZSudqL7x4G1tPxObAwk4eUz5dCKDaewTX3H



Structural component only
DWG# T-2022184 7/2

JOB NAME		TRUSS NAME		QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES		DRWG NO.																			
406514		T20		1	2	TRUSS DESC.																						
Tamarack Roof Truss, Burlington																												
Version 8.330 S May 6 2020 Mitek Industries, Inc. Wed Oct 14 10:59:57 2020 Page 1																												
ID:81TckSuAqzVBsz1WqCayOHpk-7R13xmUgU387YMRW_G0IPum_MKc6xzOEvgY7XQg																												
13.8	3.8	0.0	4.0	11	5.0	12	1.8	14.9	15.5	16.3	0	2.7	8	10.8	3	11.3	22	10.5	3	11.1	25	11.5	4	0.1	31	0.0	32	3.8
Scale = 1/32.7																												



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

Version 8.330 S May 6 2020 Mitek Industries, Inc. Wed Oct 14 10:59:58 2020 Page 2
 ID:8ITcKsUAgJzVBSz1WgSCawOHpK-beJS83nN4zdwrm1ikw81DdbHXKAEQ37afAd7n26VTXOF

PLATES (table is in inches)

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

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

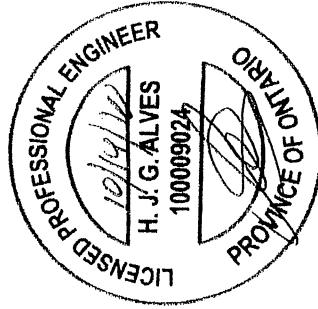
SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX.
AB	15-0-12	-21	-21	---
AC	27-11-4	-21	-21	---
AD	29-11-4	-21	-21	---

CONNECTION REQUIREMENTS

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

FACE	DIRL	TYPE	HEEL	CONN.
BACK	VERT	TOTAL	---	C1
BACK	VERT	TOTAL	---	C1



Structural component only
 DWG# T-2022172 *292*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
413426	T20Z2	1	2	TRUSS DESC.		
Tamarack Roof Truss, Burlington						

Version 8.330 S May 6 2020 MTek Industries, Inc. Wed Oct 14 11:24:29 2020 Page 2
ID:8LTcKsuAqLzVBsz1WgSCawOHpK-1dhY12a5kxvCf5SbawAxoixk8lpDjmq z7ALvYX3G

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	5.0	8.0	Edge	
C	TTWV+m	7.0	8.0	Edge	2.50
D	TMWV-t	MT20	5.0	6.0	
E, F, H					
E	TMWV-t	MT20	4.0	4.0	
G	TS-t	MT20	3.0	6.0	
I	TMWV-t	MT20	5.0	6.0	
J	TTWV+m	MT20	7.0	8.0	Edge 2.50
K	TMWV-p	MT20	5.0	8.0	Edge
M	BMV1+p	MT20	3.0	6.0	
N	BMWV-t	MT20	5.0	6.0	2.50 2.00
O	BMWV-t	MT20	5.0	6.0	2.50 2.25
P	BS-t	MT20	5.0	6.0	
Q, R, S, T					
Q	BMWV-t	MT20	5.0	6.0	
U	BS-t	MT20	5.0	6.0	
V	BMWV-t	MT20	5.0	6.0	2.50 2.25
W	BMWV-t	MT20	5.0	6.0	2.50 2.00
X	BMV1+p	MT20	3.0	6.0	

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

SPECIFIED CONCENTRATED LOADS (LBS)					
JT	LOC	LC1	MAX	MAX+	
AB	15-0-12	-21	-21		
AC	16-10-8	-778	-778		
AD	27-11-4	-21	-21		
AE	26-11-4	-21	-21		

CONNECTION REQUIREMENTS

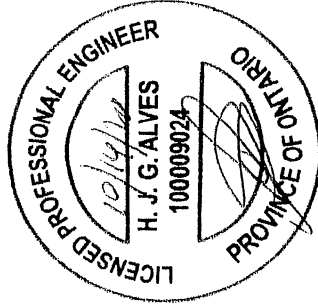
1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

HEEL	CONN.
---	C1
---	C1
---	C1
---	C1

TYPE	TOTAL
TOTAL	TOTAL
TOTAL	TOTAL
TOTAL	TOTAL

DIR.	VERT
VERT	VERT
VERT	VERT
VERT	VERT

FACE	BACK
BACK	BACK
BACK	BACK
BACK	BACK



Structural component only
DWG# T-2022-185 2/2

Tamarack Roof Truss, Burlington



DRY-SEASONED LUMBER
EXCEPT

PLATES (table is in inches)						
JT	TYPE	W	L	N	X	
A	TWVW-1	5.0	8.0	2.50	1.75	
B	TWVW-1	5.0	6.0	2.00	1.50	
C	TWVW-1	5.0	8.0	2.00	1.50	
D	TWVW-1	5.0	4.0	2.00	1.50	
E	BMVW-1	5.0	6.0	2.50	1.75	
F	BMVW-1	5.0	6.0	2.50	1.75	
G	BMVW-1	5.0	6.0	2.50	1.75	
H	BMVW-1	5.0	6.0	2.50	1.75	
I	BMVW-1	5.0	6.0	2.50	1.75	
J	BMVW-1	5.0	6.0	2.50	1.75	
K	BMVW-1	5.0	6.0	2.50	1.75	
L	BMVW-1	5.0	6.0	2.50	1.75	
M	BMVW-1	5.0	6.0	2.50	1.75	
N	BMVW-1	5.0	6.0	2.50	1.75	
O	BMVW-1	5.0	6.0	2.50	1.75	
P	BMVW-1	5.0	6.0	2.50	1.75	
Q	BMVW-1	5.0	6.0	2.50	1.75	
R	BMVW-1	5.0	6.0	2.50	1.75	
S	BMVW-1	5.0	6.0	2.50	1.75	
T	BMVW-1	5.0	6.0	2.50	1.75	
U	BMVW-1	5.0	6.0	2.50	1.75	
V	BMVW-1	5.0	6.0	2.50	1.75	
W	BMVW-1	5.0	6.0	2.50	1.75	
X	BMVW-1	5.0	6.0	2.50	1.75	
Y	BMVW-1	5.0	6.0	2.50	1.75	
Z	BMVW-1	5.0	6.0	2.50	1.75	
AA	BMVW-1	5.0	6.0	2.50	1.75	
AB	BMVW-1	5.0	6.0	2.50	1.75	
AC	BMVW-1	5.0	6.0	2.50	1.75	
AD	BMVW-1	5.0	6.0	2.50	1.75	
AE	BMVW-1	5.0	6.0	2.50	1.75	
AF	BMVW-1	5.0	6.0	2.50	1.75	
AG	BMVW-1	5.0	6.0	2.50	1.75	
AH	BMVW-1	5.0	6.0	2.50	1.75	
AI	BMVW-1	5.0	6.0	2.50	1.75	
AJ	BMVW-1	5.0	6.0	2.50	1.75	
AK	BMVW-1	5.0	6.0	2.50	1.75	
AL	BMVW-1	5.0	6.0	2.50	1.75	
AM	BMVW-1	5.0	6.0	2.50	1.75	
AN	BMVW-1	5.0	6.0	2.50	1.75	
AO	BMVW-1	5.0	6.0	2.50	1.75	
AP	BMVW-1	5.0	6.0	2.50	1.75	
AQ	BMVW-1	5.0	6.0	2.50	1.75	
AR	BMVW-1	5.0	6.0	2.50	1.75	
AS	BMVW-1	5.0	6.0	2.50	1.75	
AT	BMVW-1	5.0	6.0	2.50	1.75	
AU	BMVW-1	5.0	6.0	2.50	1.75	
AV	BMVW-1	5.0	6.0	2.50	1.75	
AW	BMVW-1	5.0	6.0	2.50	1.75	
AX	BMVW-1	5.0	6.0	2.50	1.75	
AY	BMVW-1	5.0	6.0	2.50	1.75	
AZ	BMVW-1	5.0	6.0	2.50	1.75	
BA	BMVW-1	5.0	6.0	2.50	1.75	
BB	BMVW-1	5.0	6.0	2.50	1.75	
BC	BMVW-1	5.0	6.0	2.50	1.75	
BD	BMVW-1	5.0	6.0	2.50	1.75	
BE	BMVW-1	5.0	6.0	2.50	1.75	
BF	BMVW-1	5.0	6.0	2.50	1.75	
BG	BMVW-1	5.0	6.0	2.50	1.75	
BH	BMVW-1	5.0	6.0	2.50	1.75	
BI	BMVW-1	5.0	6.0	2.50	1.75	
BJ	BMVW-1	5.0	6.0	2.50	1.75	
BK	BMVW-1	5.0	6.0	2.50	1.75	
BL	BMVW-1	5.0	6.0	2.50	1.75	
BM	BMVW-1	5.0	6.0	2.50	1.75	
BN	BMVW-1	5.0	6.0	2.50	1.75	
BO	BMVW-1	5.0	6.0	2.50	1.75	
BP	BMVW-1	5.0	6.0	2.50	1.75	
BQ	BMVW-1	5.0	6.0	2.50	1.75	
BR	BMVW-1	5.0	6.0	2.50	1.75	
BS	BMVW-1	5.0	6.0	2.50	1.75	
BT	BMVW-1	5.0	6.0	2.50	1.75	
BU	BMVW-1	5.0	6.0	2.50	1.75	
BV	BMVW-1	5.0	6.0	2.50	1.75	
BW	BMVW-1	5.0	6.0	2.50	1.75	
BX	BMVW-1	5.0	6.0	2.50	1.75	
BY	BMVW-1	5.0	6.0	2.50	1.75	
BZ	BMVW-1	5.0	6.0	2.50	1.75	
CA	BMVW-1	5.0	6.0	2.50	1.75	
CB	BMVW-1	5.0	6.0	2.50	1.75	
CC	BMVW-1	5.0	6.0	2.50	1.75	
CD	BMVW-1	5.0	6.0	2.50	1.75	
CE	BMVW-1	5.0	6.0	2.50	1.75	
CF	BMVW-1	5.0	6.0	2.50	1.75	
CG	BMVW-1	5.0	6.0	2.50	1.75	
CH	BMVW-1	5.0	6.0	2.50	1.75	
CI	BMVW-1	5.0	6.0	2.50	1.75	
CJ	BMVW-1	5.0	6.0	2.50	1.75	
CK	BMVW-1	5.0	6.0	2.50	1.75	
CL	BMVW-1	5.0	6.0	2.50	1.75	
CM	BMVW-1	5.0	6.0	2.50	1.75	
CN	BMVW-1	5.0	6.0	2.50	1.75	
CO	BMVW-1	5.0	6.0	2.50	1.75	
CP	BMVW-1	5.0	6.0	2.50	1.75	
CQ	BMVW-1	5.0	6.0	2.50	1.75	
CR	BMVW-1	5.0	6.0	2.50	1.75	
CS	BMVW-1	5.0	6.0	2.50	1.75	
CT	BMVW-1	5.0	6.0	2.50	1.75	
CU	BMVW-1	5.0	6.0	2.50	1.75	
CV	BMVW-1	5.0	6.0	2.50	1.75	
CW	BMVW-1	5.0	6.0	2.50	1.75	
CX	BMVW-1	5.0	6.0	2.50	1.75	
CY	BMVW-1	5.0	6.0	2.50	1.75	
CZ	BMVW-1	5.0	6.0	2.50	1.75	
DA	BMVW-1	5.0	6.0	2.50	1.75	
DB	BMVW-1	5.0	6.0	2.50	1.75	
DC	BMVW-1	5.0	6.0	2.50	1.75	
DD	BMVW-1	5.0	6.0	2.50	1.75	
DE	BMVW-1	5.0	6.0	2.50	1.75	
DF	BMVW-1	5.0	6.0	2.50	1.75	
DG	BMVW-1	5.0	6.0	2.50	1.75	
DH	BMVW-1	5.0	6.0	2.50	1.75	
DI	BMVW-1	5.0	6.0	2.50	1.75	
DJ	BMVW-1	5.0	6.0	2.50	1.75	
DK	BMVW-1	5.0	6.0	2.50	1.75	
DL	BMVW-1	5.0	6.0	2.50	1.75	
DM	BMVW-1	5.0	6.0	2.50	1.75	
DN	BMVW-1	5.0	6.0	2.50	1.75	
DO	BMVW-1	5.0	6.0	2.50	1.75	
DP	BMVW-1	5.0	6.0	2.50	1.75	
DQ	BMVW-1	5.0	6.0	2.50	1.75	
DR	BMVW-1	5.0	6.0	2.50	1.75	
DS	BMVW-1	5.0	6.0	2.50	1.75	
DT	BMVW-1	5.0	6.0	2.50	1.75	
DU	BMVW-1	5.0	6.0	2.50	1.75	
DV	BMVW-1	5.0	6.0	2.50	1.75	
DW	BMVW-1	5.0	6.0	2.50	1.75	
DX	BMVW-1	5.0	6.0	2.50	1.75	
DY	BMVW-1	5.0	6.0	2.50	1.75	
DZ	BMVW-1	5.0	6.0	2.50	1.75	
EA	BMVW-1	5.0	6.0	2.50	1.75	
EB	BMVW-1	5.0	6.0	2.50	1.75	
EC	BMVW-1	5.0	6.0	2.50	1.75	
ED	BMVW-1	5.0	6.0	2.50	1.75	
EE	BMVW-1	5.0	6.0	2.50	1.75	
EF	BMVW-1	5.0	6.0	2.50	1.75	
EG	BMVW-1	5.0	6.0	2.50	1.75	
EH	BMVW-1	5.0	6.0	2.50	1.75	
EI	BMVW-1	5.0	6.0	2.50	1.75	
EJ	BMVW-1	5.0	6.0	2.50	1.75	
EK	BMVW-1	5.0	6.0	2.50	1.75	
EL	BMVW-1	5.0	6.0	2.50	1.75	
EM	BMVW-1	5.0	6.0	2.50	1.75	
EN	BMVW-1	5.0	6.0	2.50	1.75	
EO	BMVW-1	5.0	6.0	2.50	1.75	
EP	BMVW-1	5.0	6.0	2.50	1.75	
EQ	BMVW-1	5.0	6.0	2.50	1.75	
ER	BMVW-1	5.0	6.0	2.50	1.75	
ES	BMVW-1	5.0	6.0	2.50	1.75	
ET	BMVW-1	5.0	6.0	2.50	1.75	
EU	BMVW-1	5.0	6.0	2.50	1.75	
EV	BMVW-1	5.0	6.0	2.50	1.75	
EW	BMVW-1	5.0	6.0	2.50	1.75	
EX	BMVW-1	5.0	6.0	2.50	1.75	
EY	BMVW-1	5.0	6.0	2.50	1.75	
EZ	BMVW-1	5.0	6.0	2.50	1.75	
FA	BMVW-1	5.0	6.0	2.50	1.75	
FB	BMVW-1	5.0	6.0	2.50	1.75	
FC	BMVW-1	5.0	6.0	2.50	1.75	
FD	BMVW-1	5.0	6.0	2.50	1.75	
FE	BMVW-1	5.0	6.0	2.50	1.75	
FF	BMVW-1	5.0	6.0	2.50	1.75	
FG	BMVW-1	5.0	6.0	2.50	1.75	
FH	BMVW-1	5.0	6.0	2.50	1.75	
FI	BMVW-1	5.0	6.0	2.50	1.75	
FJ	BMVW-1	5.0	6.0	2.50	1.75	
FK	BMVW-1	5.0	6.0	2.50	1.75	
FL	BMVW-1	5.0	6.0	2.50	1.75	
FM	BMVW-1	5.0	6.0	2.50	1.75	
FN	BMVW-1	5.0	6.0	2.50	1.75	
FO	BMVW-1	5.0	6.0	2.50	1.75	
FP	BMVW-1	5.0	6.0	2.50	1.75	
FO	BMVW-1	5.0	6.0	2.50	1.75	
FR	BMVW-1	5.0	6.0	2.50	1.75	
FS	BMVW-1	5.0	6.0	2.50	1.75	
FT	BMVW-1	5.0	6.0	2.50	1.75	
FU	BMVW-1	5.0	6.0	2.50	1.75	
FV	BMVW-1	5.0	6.0	2.50	1.75	
FW	BMVW-1	5.0	6.0	2.50	1.75	
FX	BMVW-1	5.0	6.0	2.50	1.75	
FY	BMVW-1	5.0	6.0	2.50	1.75	
FZ	BMVW-1	5.0	6.0	2.50	1.75	
GA	BMVW-1	5.0	6.0	2.50	1.75	
GB	BMVW-1	5.0	6.0	2.50	1.75	
GC	BMVW-1	5.0	6.0	2.50	1.75	
GD	BMVW-1	5.0	6.0	2.50	1.75	
GE	BMVW-1	5.0	6.0	2.50	1.75	
GF	BMVW-1	5.0	6.0	2.50	1.75	
GG	BMVW-1	5.0	6.0	2.50	1.75	
GH	BMVW-1	5.0	6.0	2.50	1.75	
GI	BMVW-1	5.0	6.0	2.50	1.75	
GJ	BMVW-1	5.0	6.0	2.50	1.75	
GK	BMVW-1	5.0	6.0	2.50	1.75	
GL	BMVW-1	5.0	6.0	2.50	1.75	
GM	BMVW-1	5.0	6.0	2.50	1.75	
GN	BMVW-1	5.0	6.0	2.50	1.75	
GO	BMVW-1	5.0	6.0	2.50	1.75	
GP	BMVW-1	5.0	6.0	2.50	1.75	
GO	BMVW-1	5.0	6.0	2.50	1.75	
GR	BMVW-1	5.0	6.0	2.50	1.75	
GS	BMVW-1	5.0	6.0	2.50	1.75	
GT	BMVW-1	5.0	6.0	2.50	1.75	
GU	BMVW-1	5.0	6.0	2.50	1.75	
GV	BMVW-1	5.0	6.0	2.50	1.75	
GW	BMVW-1	5.0	6.0	2.50	1.75	
GX	BMVW-1	5.0	6.0	2.50	1.75	
GY	BMVW-1	5.0	6.0	2.50	1.75	
GA	BMVW-1	5.0	6.0	2.50	1.75	
GB	BMVW-1	5.0	6.0	2.50	1.75	
GC	BMVW-1	5.0	6.0	2.50	1.75	
GD	BMVW-1	5.0	6.0	2.50	1.75	
GE	BMVW-1	5.0	6.0	2.50	1.75	
GF	BMVW-1	5.0	6.0	2.50	1.7	

LIVE LOAD

H-I	0/0	-18.5	-18.5	0.22 (1)	10.00
I-J	0/0	-18.5	-18.5	0.22 (1)	10.00
J-G	0/0	-18.5	-18.5	0.22 (1)	10.00
G-F	0/809	-18.5	-18.5	0.26 (1)	10.00
F-K	0/0	-18.5	-18.5	0.22 (1)	10.00
K-L	0/0	-18.5	-18.5	0.22 (1)	10.00
L-E	0/0	-18.5	-18.5	0.22 (1)	10.00

CONNECTION REQUIREMENTS

PLATE ROTATION TOL. = 5.0 Deg.

0000690001

7-08690001

Structural component only
DWG# T-2117970

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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Mon Jun 7 08:34:07 2021 Page 1

ID:8ITcksuAqzIvBSzI W6ScayyOHPk-9pB2T6U63RynejPxYxIMNR13OnTp_lukoxGIlz8kr

Value	Count
-13.8	0
-13.8	0
0.0	1
3+6.0	0
4+5.0	0
5+0.8	0



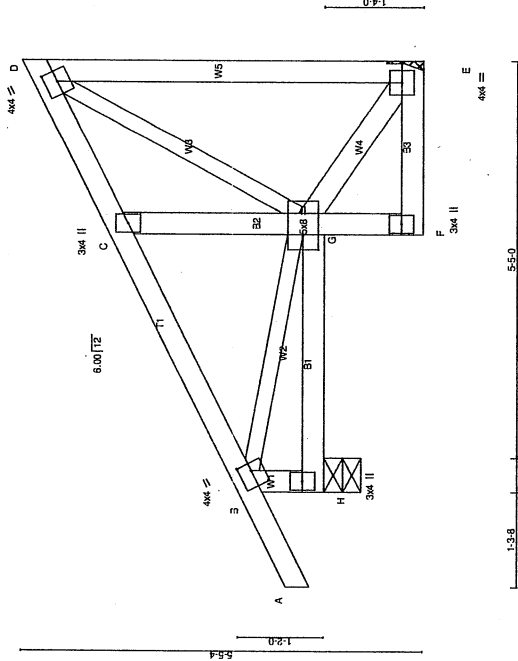
PLATES (table is in inches)				BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)!			
JT	TYPE	W	LEN	Y	X		
	PLATES						
B	TMW-1	MT20	4.0	4.0	2.00	1.25	
C	TMW-1	MT20	3.0	4.0			
D	TTW+m	MT20	5.0	6.0			
E	TMW-1	MT20	3.0	4.0			
F	BMW-1+p	MT20	6.0	9.0	Edge		
G	BMW-p	MT20	3.0	4.0			
H	BMW-1	MT20	6.0	9.0	3.25	3.25	
I	BMW-1+p	MT20	3.0	4.0			
Edge							
I - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.							
CHORDS							W E B S
MAX. FACTORED							MAX. FACTORED
TOTAL LOAD CASES: (4)							
LOADING							
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.							
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.							
BRACING							
THIS DESIGN COMPLIES WITH:							
- PART 9 OF CBC 2018 - ABC 2019							
- PART 9 OF CBC 2012 (2019 AMENDMENT)							
- CSA 086-14							
- TPC 2014							
(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD							
ALLOWABLE DEFLL(LL)= L/360 (0.20")							
CALCULATED VERT. DEFLL(LL)= L/999 (0.00")							
ALLOWABLE DEFLL(TH)= L/240 (0.25")							

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

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
406514	T26	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitak Industries, Inc. Mon Jun 7 08:34:08 2021 Page 1
ID:8ITcksuAqzVBsz1W6ScaywHpk-c7QhSVqql4XGz7z7GSbw6w0XB2jGjGuh1bSpGvz8kqz



TOTAL WEIGHT = 2 X 35 = 70 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

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

ALLOWABLE DEFLECTION = $L/360$ (0.20")
 CALCULATED VERT DEFLECTION = $L/989$ (0.007")
 ALLOWABLE DEFLECTION = $L/360$ (0.20")
 CALCULATED VERT DEFLECTION = $L/989$ (0.01")

CSI: TC=0.151 (0.01), BC=0.071 (0.01), WB=0.091 (0.01), SS=0.131 (0.01) (B-C-T)
 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 (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 (G) (INPUT = 0.90)

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

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED DOWN	FACTORED UPLIFT	INPUT BRG IN-SX	REQD BRG MECHANICAL
E	324	0	0	0	5-8
H	448	0	0	0	5-8

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

UNFACTORED REACTIONS

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

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

BRACING

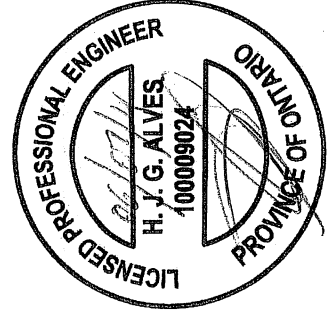
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS			FACTORED			W E B S		
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	CS (LC)	MAX. UNBRACED LENGTH (FT)	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
A-B	0/28	-91.8	-91.8	0.12 (1)	10.00	0/216	0.05 (1)	
B-C	-222/0	-91.8	-91.8	0.14 (1)	6.25	-13/0	0.00 (1)	
C-D	-239/0	-91.8	-91.8	0.14 (1)	6.25	G-E	0.09 (1)	
D-E	-297/0	0.0	0.0	0.15 (1)	7.81	G-D	0.387	
H-B	-415/0	0.0	0.0	0.04 (1)	7.81			
H-G	0/0	-18.5	-18.5	0.07 (4)	10.00			
F-G	0/23	0.0	0.0	0.02 (1)	10.00			
G-C	-398/0	0.0	0.0	0.02 (1)	7.81			
F-E	0/11	-18.5	-18.5	0.03 (4)	10.00			



Structural component only
 DWG# T-2117973

[illegible]

JOB NAME

413426

JOB DESC.

ROYAL PINE HOMES

TRUSS NO.

1

JOB NAME

T31Z

JOB DESC.

TRUSS DESC.

QUANTITY

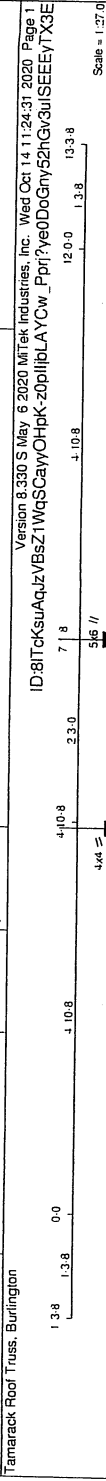
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PLY

1

Version 8.330 S May 6 2020 MTRK Industries, Inc. Wed Oct 14 11:24:31 2020 Page 1

ID:8TcKsuAqLzVBSZ1WqScayChPk-z0pIbLA7Cw_PPrf?yDeDcGv52Hg3uISeEEV7X3E



LUMBER	N.L.G.A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	5x6 II	SPF
C - D	2x4	DRY	No.2	5x6 II	SPF
D - F	2x4	DRY	No.2	5x6 II	SPF
F - B	2x4	DRY	No.2	5x6 II	SPF
G - E	2x4	DRY	No.2	5x6 II	SPF
J - G	2x4	DRY	No.2	5x6 II	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	5x6 II	SPF
DRY: SEASONED LUMBER.					

PLATES (table is in inches)	W	LEN	Y	X
B TWVW+P	MT20	5.0	6.0	Edge
C TTWW-m	MT20	4.0	4.0	
D TTWW+P	MT20	5.0	6.0	2.00 1.50
E TWVW+P	MT20	3.0	4.0	Edge
G BWV1+P	MT20	4.0	6.0	
H BWVWV-1	MT20	4.0	9.0	
J BWV1+P	MT20	3.0	4.0	

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

CHORDS	MAX. FACTORED MEMB. (LBS)	FACTORED FORCE (LBS)	VERT. LOAD (LBS)	LC1 (IN)	MAX. FACTORED FORCE (LBS)	W EBS MEMB. (LBS)	MAX. FACTORED FORCE (LBS)	CS1 (LC)	UNBRAC LENGTH FR-TO	MAX. FACTORED FORCE (LBS)	CS1 (LC)
A-B	0	35	-91.8	-91.8	0.14 (1)	10.00	I-C	90	79	0.03 (4)	
B-C	-1258	0	-91.8	-91.8	0.47 (1)	5.08	I-D	0	3	0.00 (4)	
C-D	-1042	0	-91.8	-91.8	0.10 (1)	6.02	H-D	-92	76	0.03 (1)	
D-E	-1256	0	-91.8	-91.8	0.47 (1)	5.08	B-I	0	1069	0.26 (1)	
E-F	0	35	-91.8	-91.8	0.14 (1)	10.00	H-E	0	1068	0.26 (1)	
J-B	-1274	0	0.0	0.0	0.14 (1)	7.10					
G-E	-1275	0	0.0	0.0	0.14 (1)	7.10					
J-K	0	0	-18.5	-18.5	0.19 (4)	10.00					
K-L	0	0	-18.5	-18.5	0.19 (4)	10.00					
L-I	0	0	-18.5	-18.5	0.19 (4)	10.00					
I-H	0	1041	-18.5	-18.5	0.26 (1)	10.00					
H-M	0	0	-18.5	-18.5	0.19 (4)	10.00					
M-N	0	0	-18.5	-18.5	0.19 (4)	10.00					
N-G	0	0	-18.5	-18.5	0.19 (4)	10.00					

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

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

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

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

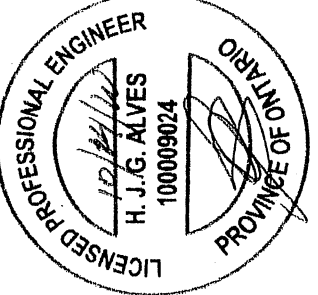
LOADING
TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED MEMB. (LBS)	FACTORED FORCE (LBS)	VERT. LOAD (LBS)	LC1 (IN)	MAX. FACTORED FORCE (LBS)	W EBS MEMB. (LBS)	MAX. FACTORED FORCE (LBS)	CS1 (LC)	UNBRAC LENGTH FR-TO	MAX. FACTORED FORCE (LBS)	CS1 (LC)
A-B	0	35	-91.8	-91.8	0.14 (1)	10.00	I-C	90	79	0.03 (4)	
B-C	-1258	0	-91.8	-91.8	0.47 (1)	5.08	I-D	0	3	0.00 (4)	
C-D	-1042	0	-91.8	-91.8	0.10 (1)	6.02	H-D	-92	76	0.03 (1)	
D-E	-1256	0	-91.8	-91.8	0.47 (1)	5.08	B-I	0	1069	0.26 (1)	
E-F	0	35	-91.8	-91.8	0.14 (1)	10.00	H-E	0	1068	0.26 (1)	
J-B	-1274	0	0.0	0.0	0.14 (1)	7.10					
G-E	-1275	0	0.0	0.0	0.14 (1)	7.10					
J-K	0	0	-18.5	-18.5	0.19 (4)	10.00					
K-L	0	0	-18.5	-18.5	0.19 (4)	10.00					
L-I	0	0	-18.5	-18.5	0.19 (4)	10.00					
I-H	0	1041	-18.5	-18.5	0.26 (1)	10.00					
H-M	0	0	-18.5	-18.5	0.19 (4)	10.00					
M-N	0	0	-18.5	-18.5	0.19 (4)	10.00					
N-G	0	0	-18.5	-18.5	0.19 (4)	10.00					

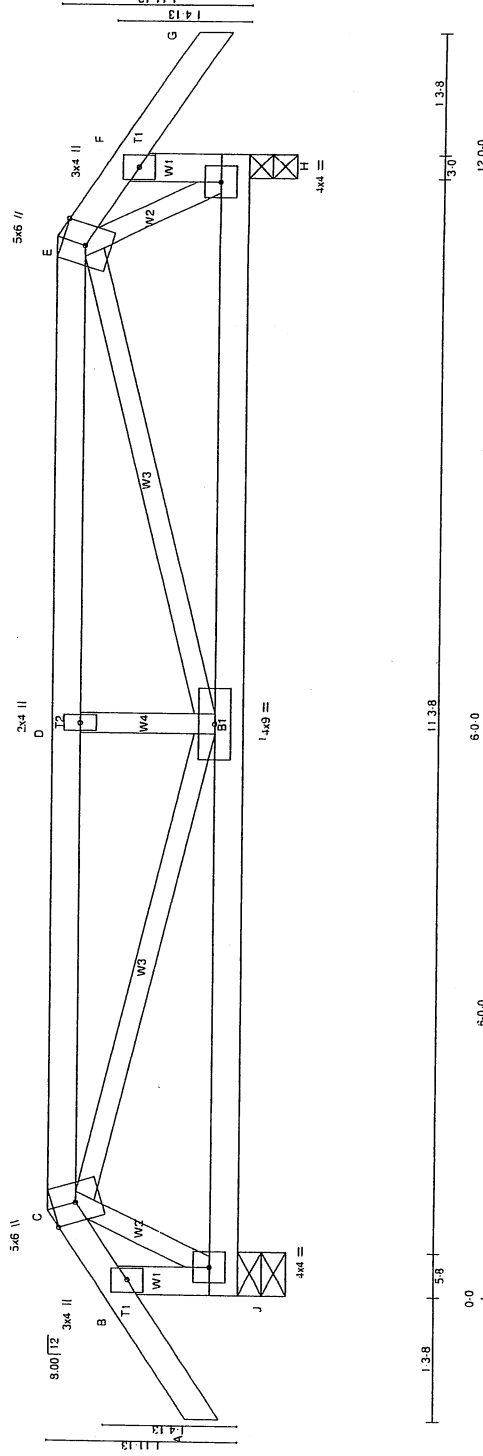
SPECIFIED CONCENTRATED LOADS (LBS)	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
JT	4-10-8	-319	-319	BACK	VERT	TOTAL	---	C1
C	7-1-8	-319	-319	BACK	VERT	TOTAL	---	C1
H	7-0-0	-21	-21	BACK	VERT	TOTAL	---	C1
D	5-0-0	-21	-21	BACK	VERT	TOTAL	---	C1
K	2-0-12	-22	-22	BACK	VERT	TOTAL	---	C1
L	4-0-12	-21	-21	BACK	VERT	TOTAL	---	C1
M	7-1-4	-21	-21	BACK	VERT	TOTAL	---	C1
N	9-1-4	-22	-22	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
413426	T33	1	1	TRUSS DESC.		
Tamarack Roof Truss, Burlington						
Version 8.330 S May 6 2020 MITek Industries, Inc. Wed Oct 14 11:24:32 2020 Page 1						
ID:8ITckSuAqzVBSz1WqSCayvOHPK-PCNgV3czsxKmcZOTGIUTYRKSWSPQkQD6vBnngYTX3D						
1.3.8	1.3.8	0.0	10.8	5.1.8	5.0.0	11.1.8 10.8 12.0.0 1.3.8 10.3.8
Scale = 1/20.9						



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

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

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, CBC 2012, ABC 2019

- PART 9 OF CBC 2012 (2019 AMENDMENT)

- CSA 086-09, CSA 086-14

- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEF. (LL) = L/360 (0.40")

CALCULATED VERT. DEF. (LL) = L/999 (0.04")

ALLOWABLE DEF. (TL) = L/360 (0.40")

CALCULATED VERT. DEF. (TL) = L/999 (0.08")

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

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVEHEELS OFF

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

NAIL VALUES

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

MAX MIN MAX MIN

MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

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

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

BEARINGS

FACTORED

GROSS REACTION

DOWN

HORIZ

UPLIFT

IN-SX

BRG

RECORD

5-8

3-0

UNFACTORED REACTIONS

TEST CASE

MAX. MIN. COMPONENT REACTIONS

LIVE

PERM. LIVE

WIND

DEAD

SOIL

0.0

0.0

0.0

0.0

0.0

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PLATES (table is in inches)

TYPE

PLATES

W

LEN

Y

X

8

TMV-p

MT20

3.0

4.0

Edge

C

TMV-w

MT20

2.0

4.0

Edge

E

TMV-w

MT20

3.0

4.0

Edge

F

TMV-p

MT20

3.0

4.0

Edge

H

BMVW-t

MT20

4.0

9.0

I

BMVW-t

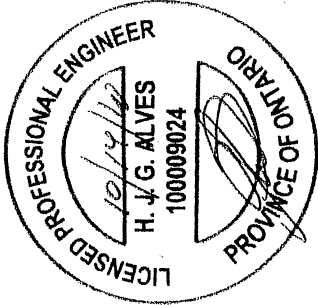
MT20

4.0

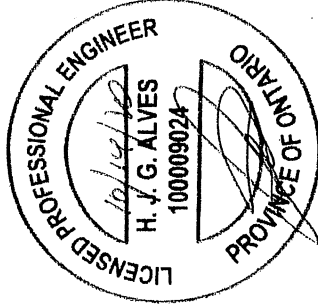
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J

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



Structural component only
DWG# T-2022189

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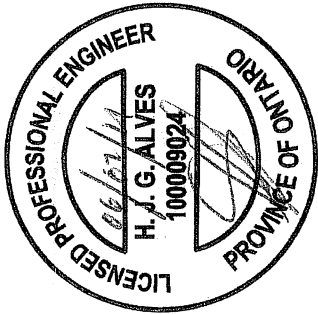
Structural component only
DWG# T-2022191

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

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Mon Jun 7 08:37:37 2021 Page 2
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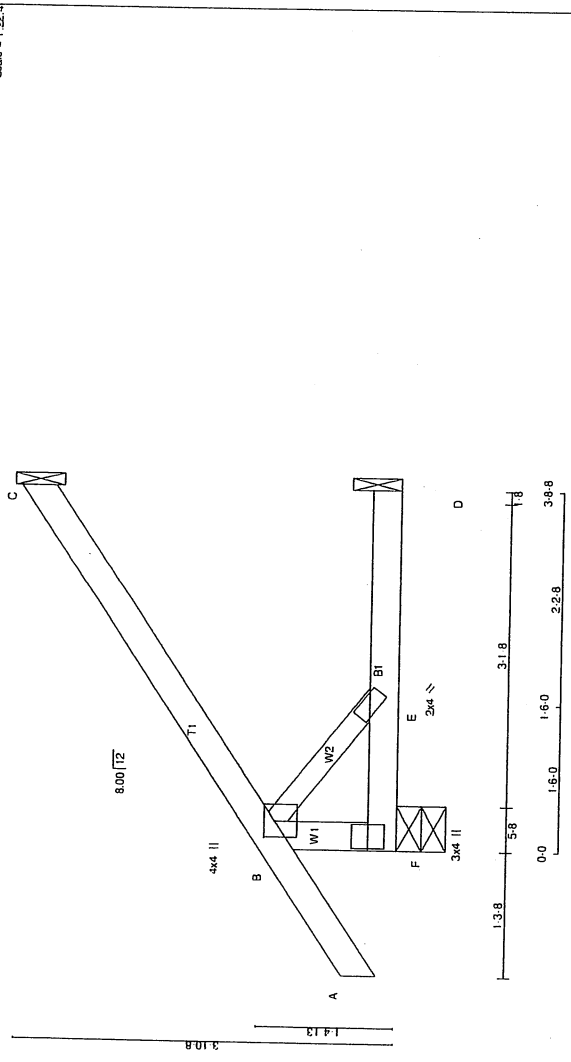
PLATES (table is in inches)
JT TYPE PLATES W LEN Y X
F BMV1+p MT20 3.0 4.0



Structural component only
DWG# T-2117975

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

Version 8.330 S May 6 2020 Mitek Industries, Inc. Wed Oct 14 10:41:36 2020 Page 1
 ID:8ITcksuAqJzVBsz1WqSCayvOHPk-sdrfSR8bOnH-ZhSYmIGo9CaHvIasiZ2mBBUM_yTXht
 Scale = 1/22.4



TOTAL WEIGHT = 4 X 14 = 55 lb

LUMBER		N.L.G.A. RULES		DESCR.	
CHORDS	SIZE	DRY	MT20	SPF	
F - B	2x4	DRY	MT20	SPF	
A - C	2x4	DRY	MT20	SPF	
F - D	2x4	DRY	MT20	SPF	
ALL WEBS	2x3	DRY	MT20	SPF	
DRY: SEASONED LUMBER.					

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

UNFACTORED REACTIONS		1ST CASE		MAX. MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
F	231	165.0	0.0	0.0	0.0
C	117	95.0	0.0	0.0	0.0
D	27	0.0	0.0	0.0	0.0

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

LOADING		TOTAL LOAD CASES: (5)	
CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	W EBS
F - B	-296.0	0.0	0.0
A - B	0.35	-91.8	-91.8
B - C	0.0	-91.8	-91.8
F - E	0.0	-18.5	-18.5
E - D	0.0	-18.5	-18.5

FACTORED REACTIONS		MAX. FACTORED FORCE (LBS)		MAX. FACTORED FORCE (LBS)	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
F	231	165.0	0.0	0.0	0.0
C	117	95.0	0.0	0.0	0.0
D	27	0.0	0.0	0.0	0.0

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

LICENSED PROFESSIONAL ENGINEER
 H. J. G. ALVES
 100009024
 PROVINCE OF ONTARIO

Structural component only
 DWG# T-2022151

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEF. (LL) = L/360 (0.19")
 CALCULATED VERT. DEF. (LL) = L/999 (0.007")
 ALLOWABLE DEF. (TL) = L/360 (0.19")
 CALCULATED VERT. DEF. (TL) = L/999 (0.017")

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

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

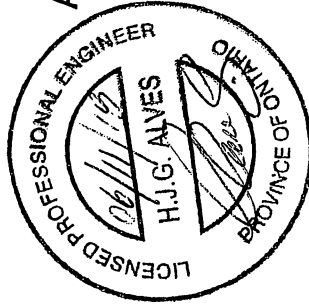
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT

NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI)
 MAX MIN MAX MIN
 MT20 616 354 1667 788 1967 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

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



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 manufacturer's 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 M117473C REV.10-08 attached for information on symbols, numbering system and General Safety notes.

T-1900213

Feb 09, 2018

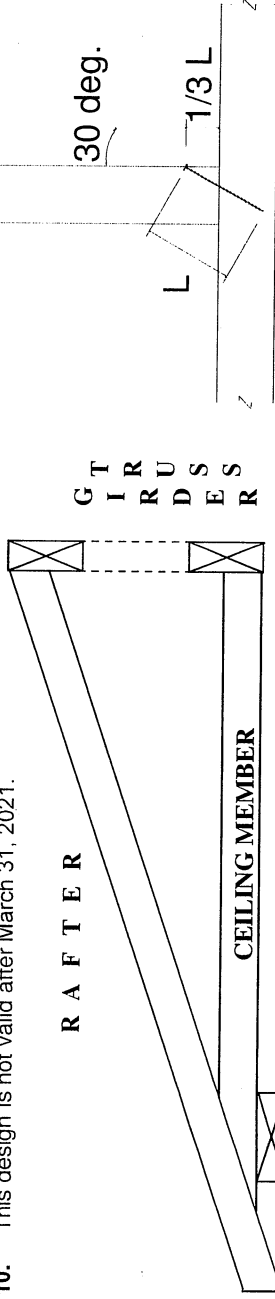
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B97791H1

NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL LATERAL CAPACITY (LB)	
COMMON WIRE	3.00	0.144	S-P-F	D. FIR
	3.25	0.144	132	147
	3.50	0.160	132	147
COMMON SPIRAL	3.00	0.122	159	177
	3.25	0.122	97	108
	3.50	0.152	97	108
			145	162

NOTES:

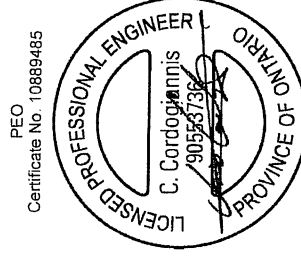
- Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
- 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.
- For 9-3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
- 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.
- Nail values in table are based on the following relative lumber densities: $G = 0.42$ (SPF), $G = 0.49$ (D. Fir).
- 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).
- For loads due to **wind** the nail lateral capacity in this table may be multiplied by 1.15 (K_D factor).
- Lumber must be dry (< 19% moisture content) at the time of nail installation.
- Nail values in this table comply with CSA O86-14, section 12.9.4
- This design is not valid after March 31, 2021.



TOE-NAIL INSTALLATION

Nail type	Common wire	Common spiral	Common wire	Common spiral
Nail dia. (in)	0.160	0.152	0.144	0.122
(3.5" nail)				
MAXIMUM NUMBER OF TOE-NAILS				
2X4 SPF	2	2	3	3
2X4 D. Fir	2	2	2	2
2X6 SPF	4	4	4	5
2X6 D. Fir	3	3	3	4

MiTek® MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7



December 2, 2019

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

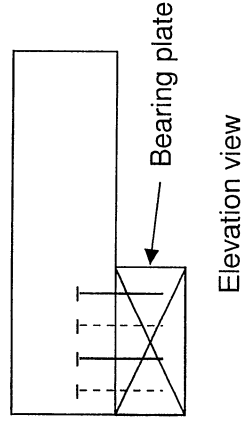
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
COMMON WIRE	3.00	0.144	S-P-F	D. FIR
			30	42
			32	45
COMMON SPIRAL	3.50	0.160	S-P-F	D. FIR
			38	52
			26	36
COMMON SPIRAL	3.25	0.122	S-P-F	D. FIR
			28	40
			36	50

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

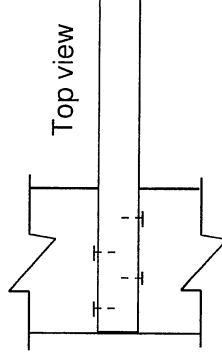
NOTES:

1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to **wind** or **earthquake** load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher than the maximum toe-nail withdrawal capacity.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.5.2.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in table above.
5. Nail values in table are based on the following relative lumber densities: $G = 0.42$ (SPF), $G = 0.49$ (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See drawing on detail B37579H1).
7. Lumber must be dry (< 19% moisture content) at the time of nail installation.
8. Nail values in this table comply with CSA O86-14, section 12.9.5
9. This design is not valid after March 31, 2021.

Toe-nailing on 2x6 Bearing Plate



Top view

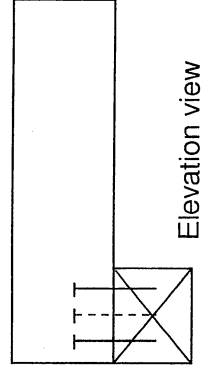


Nails are installed at about 30° to the grain of vertical member

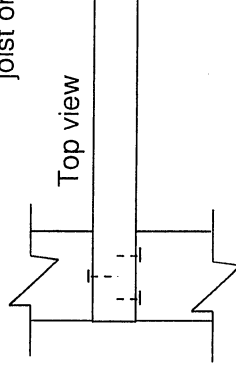
Approx. 1/3 of nail length

Elevation view

Toe-nailing on 2x4 Bearing Plate

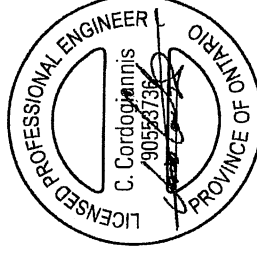


Top view



Toe-nailing viewed from end of joist or truss

PEO
Certificate No. 10889485



MiTek[®] MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7

December 2, 2019

TECHNICAL BULLETIN

HUS/LJS – Double Shear Joist Hangers



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

Material: See table

Finish: G90 galvanized

Design:

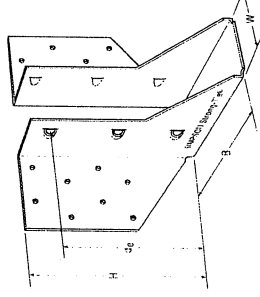
- Factored resistances are in accordance with CSA O86 -14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

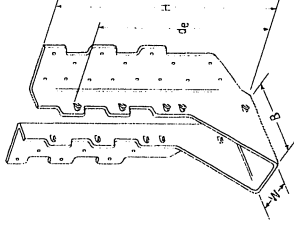
- Use all specified fasteners
- Nails: $16d = 0.162"$ dia. x $3\frac{1}{2}"$ long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

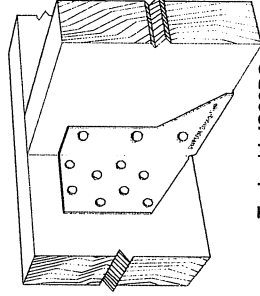
- See current catalogue for options



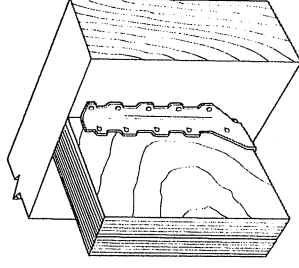
LJS26DS



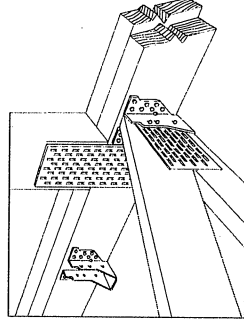
HUS210
(HUS26, HUS28, similar)



Typical LJS26DS Installation



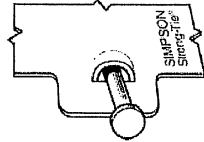
Typical HUS Installation



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

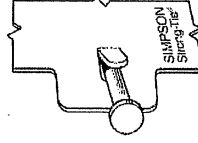
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d_e ¹	Face	Joist	Uplift ($K_F=1.15$)	Normal ($K_F=1.00$)	Uplift ($K_F=1.15$)	Normal ($K_F=1.00$)
								lb.	lb.	lb.	lb.
LJS26DS	18	$1\frac{1}{16}$	5	$3\frac{1}{2}$	$4\frac{1}{8}$	(16) 16d	(6) 16d	2055	4265	1460	4115
HUS26	16	$1\frac{1}{8}$	$5\frac{1}{8}$	3	$3\frac{5}{16}$	(14) 16d	(6) 16d	2705	4940	2065	3875
HUS28	16	$1\frac{1}{8}$	$7\frac{1}{32}$	3	$6\frac{3}{32}$	(22) 16d	(8) 16d	3605	5365	2675	4345
HUS210	16	$1\frac{1}{8}$	$9\frac{1}{32}$	3	$7\frac{1}{32}$	(30) 16d	(10) 16d	4505	5795	4010	4740
HUS1.81/10	16	$1\frac{1}{16}$	9	3	8	(30) 16d	(10) 16d	4505	6450	4010	5200

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

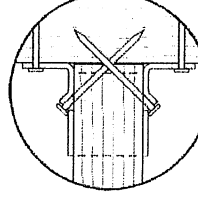


Dome Double Shear Nailing prevents tabs breaking off (available on some models).

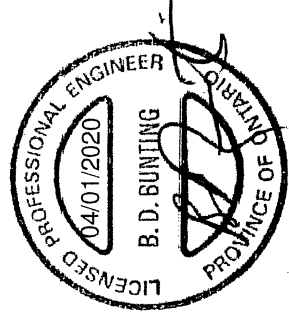
U.S. Patent 5,603,580



Double Shear Nailing. Do not bend tab back.



Double Shear Nailing Top View.



LIMIT
STATES
DESIGN

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

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T-SPECHUS20 3/20 exp. 6/22

(800) 999-5099
strongtie.com

LUS – Double Shear Joist Hangers



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

Material: 18 gauge

Finish: G90 galvanized

Design:

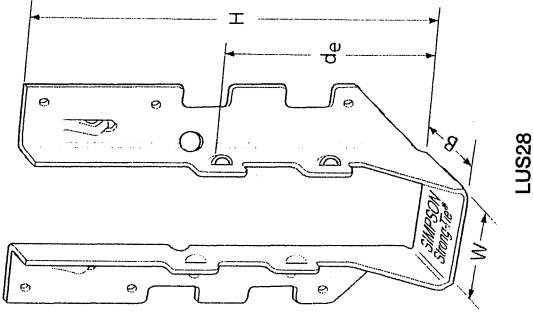
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

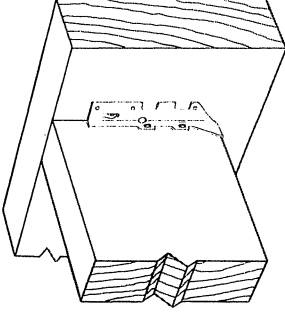
- Use all specified fasteners.
- Nails: $16d = 0.162"$ dia. x $3\frac{1}{2}"$ long common wire, $10d = 0.148"$ x $3"$ long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.

Options:

- These hangers cannot be modified



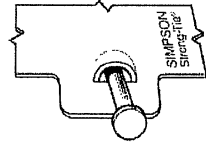
LUS28



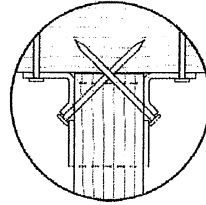
Typical LUS Installation

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift	Normal	Uplift	Normal
LUS24	18	1 ⁹ / ₁₆	3 ³ / ₈	1 ³ / ₄	1 ¹⁵ / ₁₆	(4) 10d	(2) 10d	(K ₀ =1.15) (K ₀ =1.00)	(K ₀ =1.15) (K ₀ =1.00)	710	1630
LUS24-2	18	3 ³ / ₈	3 ³ / ₈	2	1 ¹³ / ₁₆	(4) 16d	(2) 16d	835	2020	590	1435
LUS26	18	1 ⁹ / ₁₆	4 ³ / ₈	1 ³ / ₄	3 ⁵ / ₈	(4) 10d	(4) 10d	1420	2170	1290	1630
LUS26-2	18	3 ³ / ₈	4 ⁷ / ₈	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
LUS26-3	18	4 ⁵ / ₈	4 ³ / ₈	2	3 ¹ / ₄	(4) 16d	(4) 16d	1720	2595	1545	2340
LUS28	18	1 ⁹ / ₁₆	6 ⁵ / ₈	1 ³ / ₄	3 ³ / ₄	(6) 10d	(6) 10d	1420	2520	1290	1790
LUS28-2	18	3 ³ / ₈	7	2	4	(6) 16d	(4) 16d	1720	3325	1545	2575
LUS28-3	18	4 ⁵ / ₈	6 ¹ / ₄	2	3 ¹ / ₄	(6) 16d	(4) 16d	1720	3325	1545	2375
LUS210	18	1 ⁹ / ₁₆	7 ¹³ / ₁₆	1 ³ / ₄	3 ⁷ / ₈	(8) 10d	(4) 10d	1420	2785	1290	2210
LUS210-2	18	3 ³ / ₈	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
LUS210-3	18	4 ⁵ / ₈	8 ³ / ₈	2	5 ¹ / ₄	(8) 16d	(6) 16d	2580	3345	2320	2375

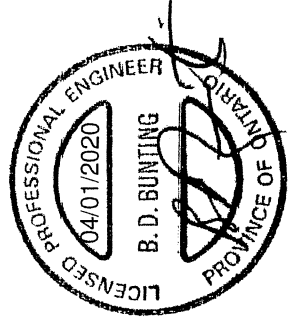
1. d_e is the distance from the seat of the hanger to the highest joist nail.



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



Double Shear Nailing Top View.



LIMIT
STATES
DESIGN

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

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T-SPEC LUS20 3/20 exp. 6/22

(800) 999-5099
strongtie.com

HGUS – Double Shear Joist Hangers



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

Material: 12 gauge

Finish: G90 galvanized

Design:

- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.

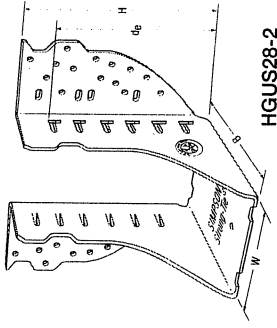
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

Installation:

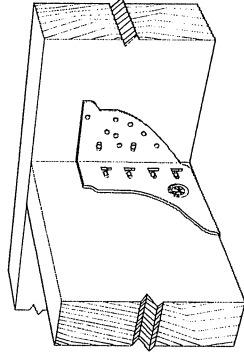
- Use all specified fasteners
- Nails: 16d = 0.162" dia x 3½" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

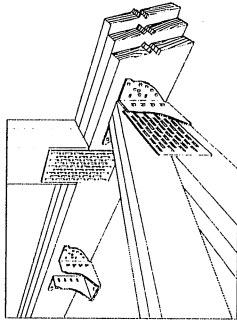
- See current catalogue for options



HGUS28-2



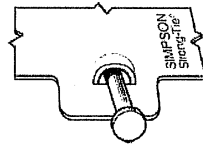
Typical HGUS Installation



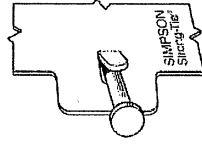
Typical HGUS Installation
(Truss Designer to provide fastener quantity for connecting multiple members together)

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)		
		W	H	B	d _g ¹	Face	Joist	D.Fir-L		S-P-F
								Uplift	Normal	
HGUS26	12	1⅝	5⅝	5	4⅝ ₂	(20) 16d	(8) 16d	(K _p =1.15) 2685	(K _p =1.00) 6625	(K _p =1.00) 5700
HGUS26-2	12	3⅜ ₁₆	57 ₁₆	4	4⅞	(20) 16d	(8) 16d	4385	8950	3100 6355
HGUS26-3	12	4⅝ ₁₆	5½	4	4⅞	(20) 16d	(8) 16d	4385	8950	3100 6355
HGUS26-4	12	6⅜ ₁₆	57 ₁₆	4	4⅞	(20) 16d	(8) 16d	4385	8950	3100 6355
HGUS28	12	1⅝	7⅞	5	6⅞	(36) 16d	(12) 16d	3310	7675	3100 6900
HGUS28-2	12	3⅜ ₁₆	7⅞ ₁₆	4	6⅞	(36) 16d	(12) 16d	6070	12980	4310 9215
HGUS28-3	12	4⅝ ₁₆	7¼	4	6⅜	(36) 16d	(12) 16d	6070	12980	4310 9215
HGUS28-4	12	6⅜ ₁₆	7⅞ ₁₆	4	6⅞	(36) 16d	(12) 16d	6070	12980	4310 9215
HGUS210	12	1⅝	9⅞	5	7⅞	(46) 16d	(16) 16d	3535	11070	2510 8090
HGUS210-2	12	3⅜ ₁₆	9⅜ ₁₆	4	8⅞	(46) 16d	(16) 16d	6840	14015	4855 10270
HGUS210-3	12	4⅝ ₁₆	9¼	4	8⅜	(46) 16d	(16) 16d	6840	14645	4855 10400
HGUS210-4	12	6⅜ ₁₆	9⅜ ₁₆	4	8⅞	(46) 16d	(16) 16d	6840	14645	4855 10400
HGUS212-4	12	6⅜ ₁₆	10⅜	4	10⅞	(56) 16d	(20) 16d	7640	14995	5425 10645
HGUS214-4	12	6⅜ ₁₆	12⅜	4	11⅞	(66) 16d	(22) 16d	10130	16400	7195 11645

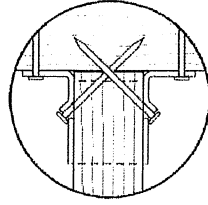
1. d_g is the distance from the seat of the hanger to the highest joist nail.



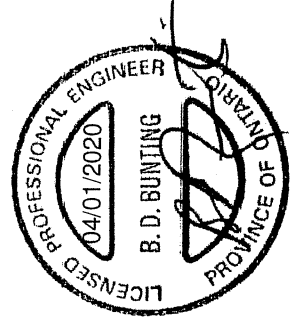
Dome Double Shear Nailing prevents tabs breaking off (available on some models).
U.S. Patent 5,603,580



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



Double Shear Nailing Top View.



LIMIT STATES DESIGN

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

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T-SPECHGUS20 3/20 exp. 6/22

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ONTARIO WOOD TRUSS
FABRICATORS ASSOCIATION

TECH-NOTES

TN 15-001

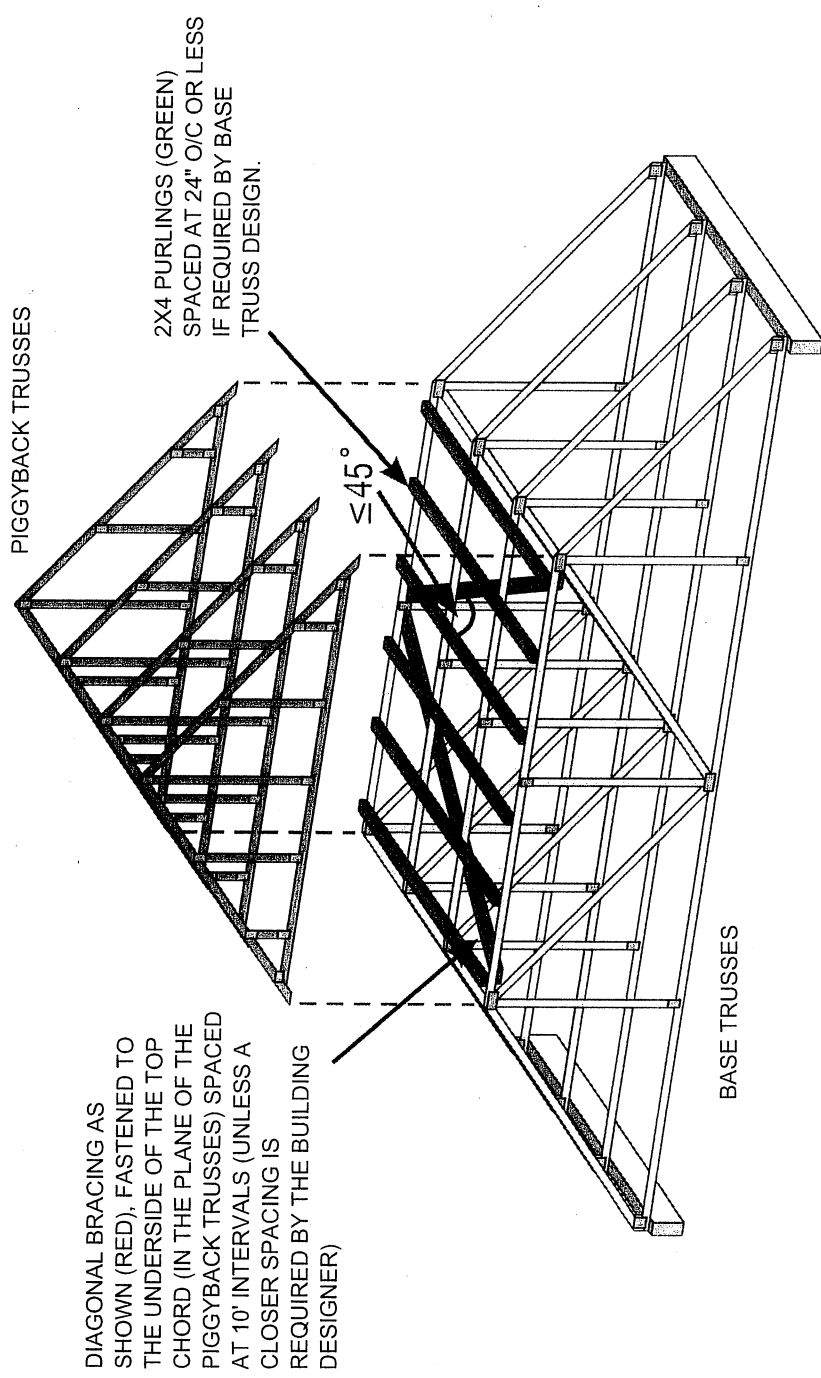
Piggyback Bracing

Overview:

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

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

Detail:



NOTE: THE SLOPED PORTION OF THE TOP CHORD OF THE BASE TRUSS AND PIGGYBACK TRUSS IN THIS SKETCH IS ASSUMED TO BE SHEATHED IN ACCORDANCE WITH THE OBC.

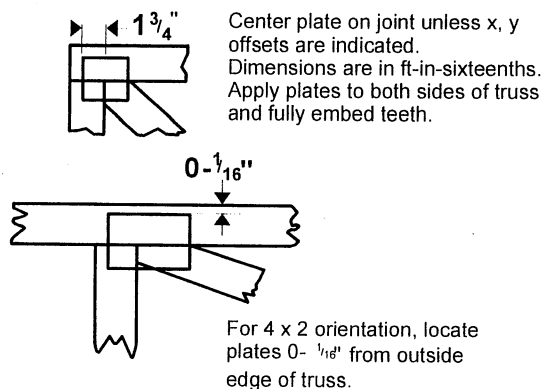
SKETCH FROM BCSI-CANADA 2013

Disclaimer:

OWTFA Tech Notes are intended to provide guidance to the design community both within the membership as well as to third party designers who might benefit from the information. The details have been developed by the OWTFA technical committee and although there may be professional engineers involved in development, the information contained in the tech-note are not intended to be used without having a professional engineer review the information for a specific application. The OWTFA takes no responsibility with respect to the information provided but has developed this tech-note to offer guidance where it is not currently readily available.

Symbols

PLATE LOCATION AND ORIENTATION



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

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 x 4

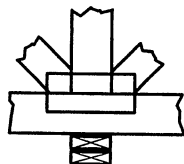
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

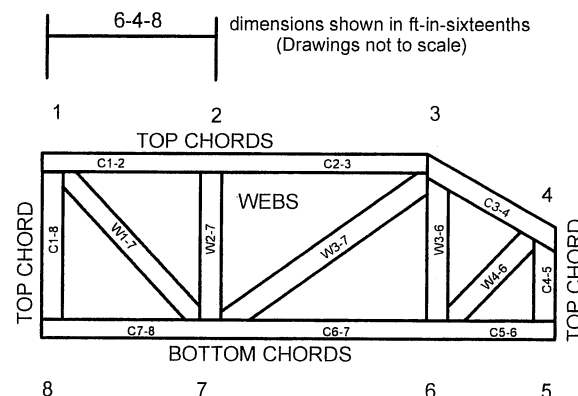


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.