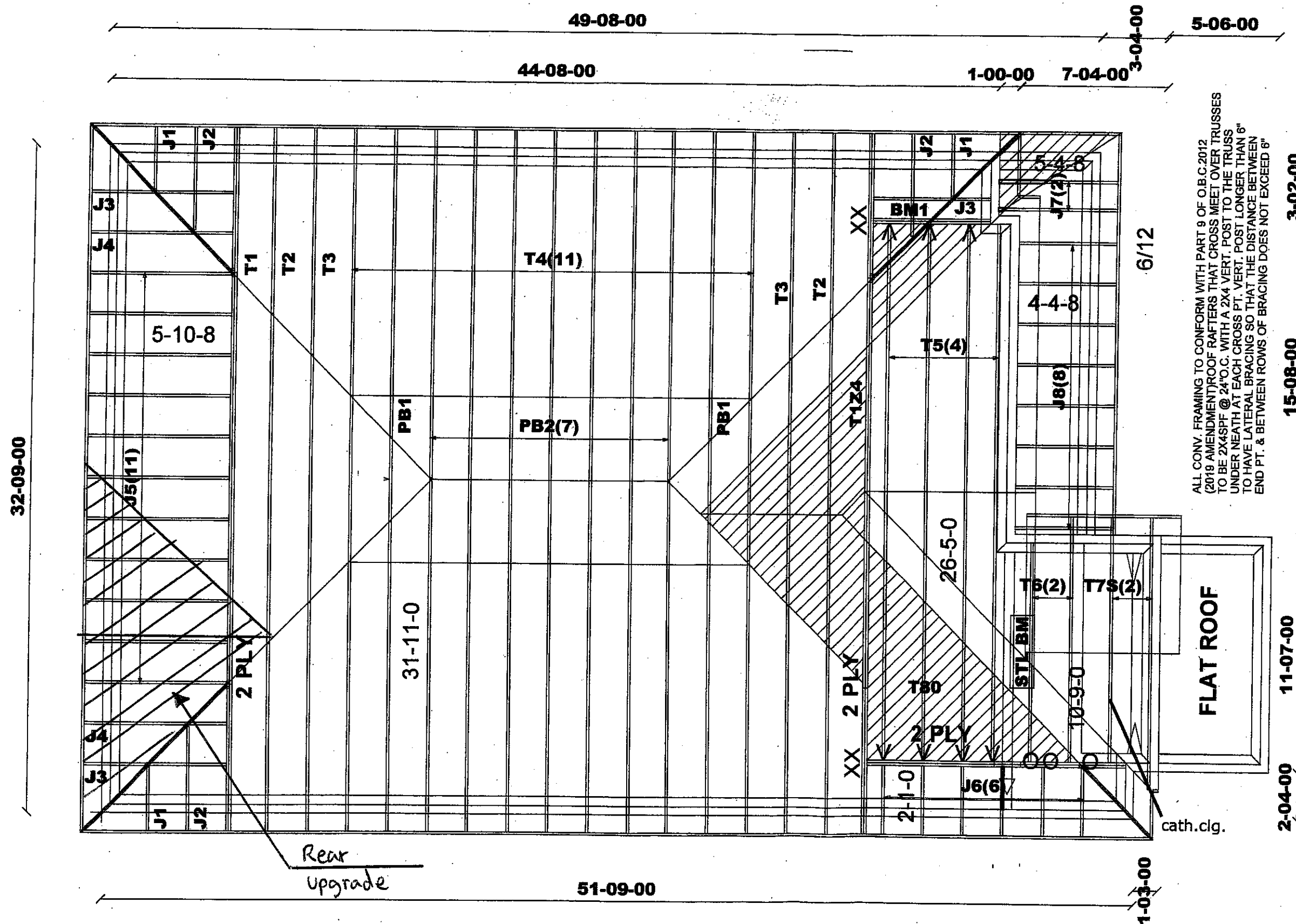


ROOF PITCH 8/12 UNLESS NOTED



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"

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 O.B.C.2012 PART 9
(2019 AMENDMENT)

DESIGN LOADS:
SNOW LOAD 25.6 PSF
TC DEAD 6 PSF
BC LIVE 0 PSF
BC DEAD 7.4 PSF

CITY OF HAMILTON

BM1 = 2-2X10

Permit No. 1-154479

THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE

THE OWNER AND/OR CONTRACTOR SHALL COMPLY WITH
THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW

These drawings and/or specifications have been reviewed by

OCT 19 2021



Job Track: 51225

Plan Log: 205147

Layout ID: 421107

Builder / Location:

GREEN PARK HOMES / WATERDOWN

Project: RUSSEL GARDENS PH.4

Date: 2021-08-16

Sales: William Garcia

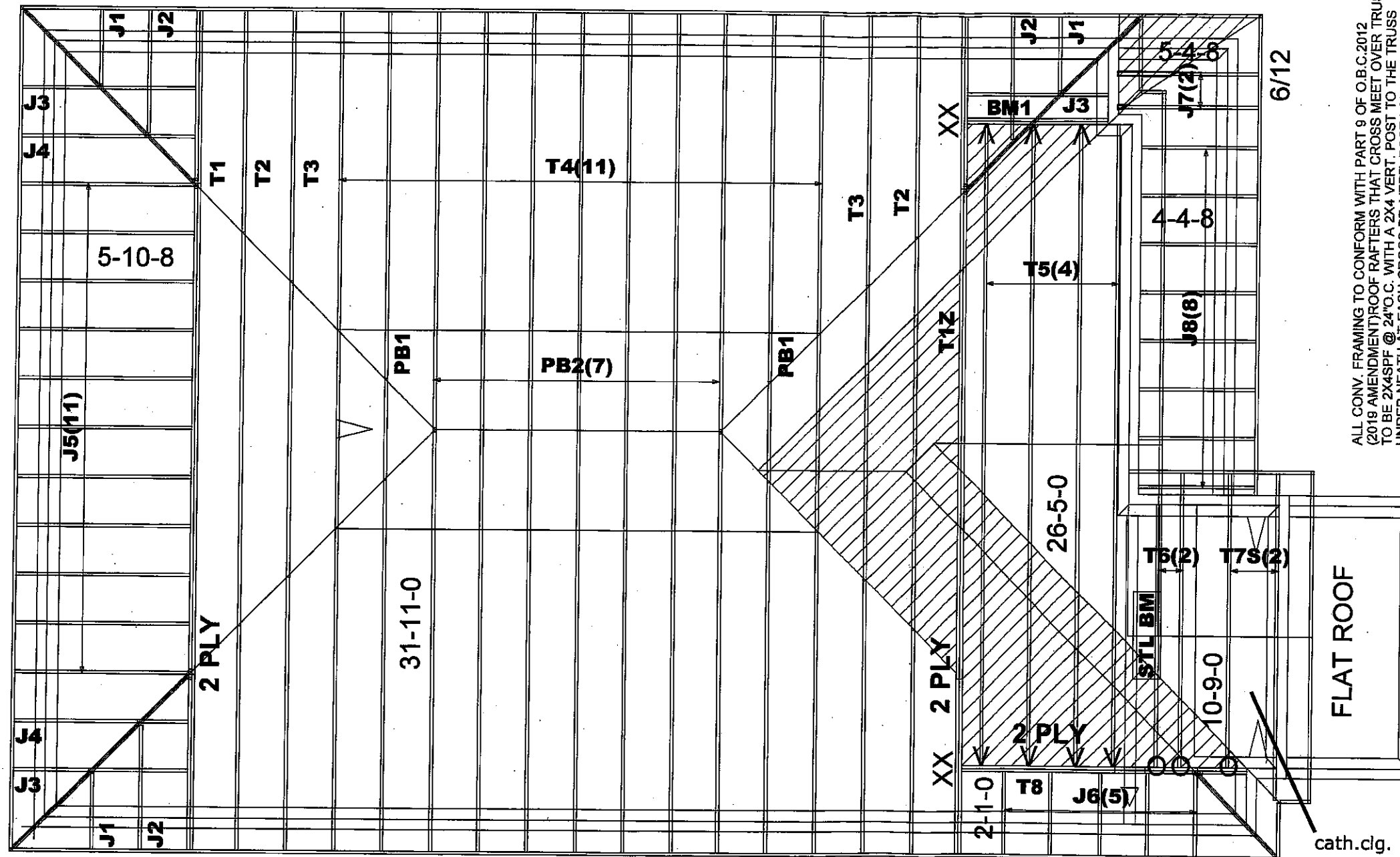
Designer: JG

Model / Elevation:

VALLEYCREEK 4A/1 (WALK OUT + REAR UPGRADE)

THESE DRAWINGS CONSTITUTE THE PROPERTY OF TAMARACK ROOF TRUSSES INC., SHALL NOT BE REPRODUCED, PUBLISHED, OR
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TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.

ROOF PITCH 8/12 UNLESS NOTED



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

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

BM1 = 2-2X10

M13753



Job Track: 51225
Plan Log: 202404
Layout ID: 408163

Builder / Location:
GREEN PARK HOMES / WATERDOWN

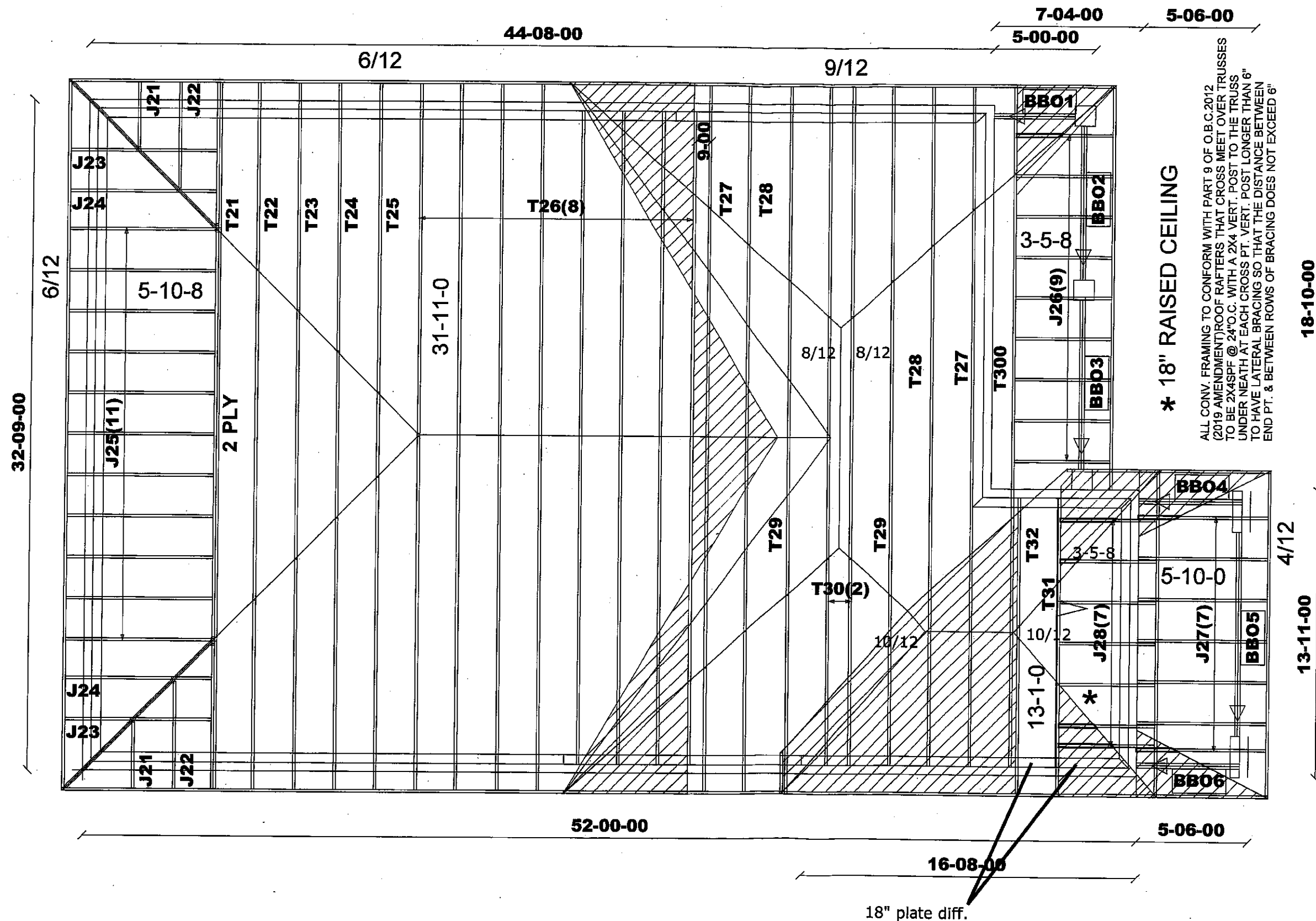
Project: **RUSSELL GARDENS PHASE 4**

Date: 2021-03-12 Sales: Mario DiCano Designer: AC/JG

Model / Elevation:
VALLEYCREEK 4A/1

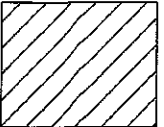
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Mitek ver 8.4.2.286



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

DENOTES
CONV.
FRAMING

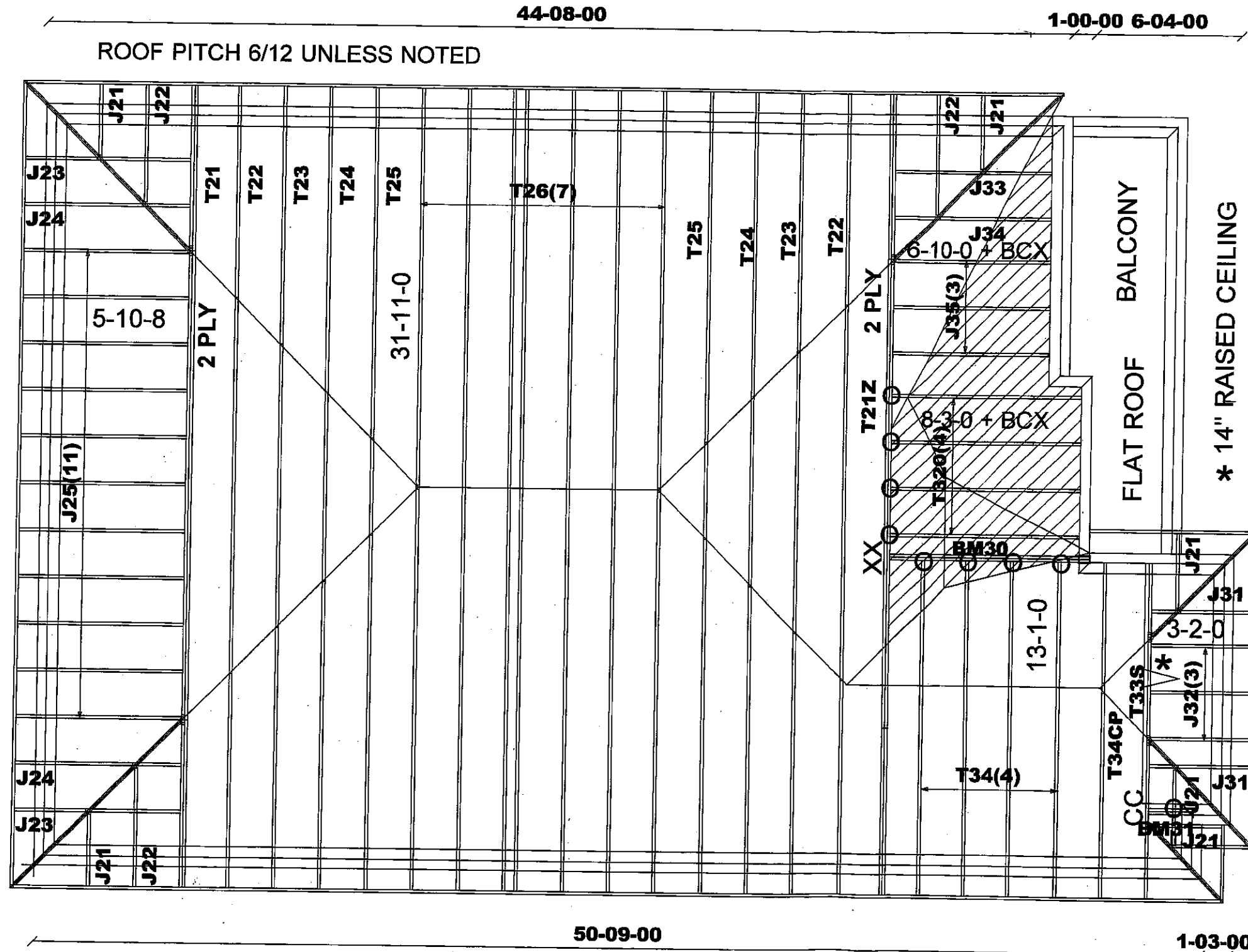


DESIGN CONFORMS
WITH O.B.C.2012 PART 9
(2019 AMENDMENT)
DESIGN LOADS:
SNOW LOAD 25.6 PSF
TC DEAD 6 PSF
BC LIVE 0 PSF
BC DEAD 7.4 PSF

M13753



Job Track: 51225	Builder / Location: GREEN PARK HOMES / WATERDOWN	Model / Elevation: VALLEYCREEK 4A/2	Milek ver B.4.2.286
Plan Log: 202404	Project: RUSSELL GARDENS PHASE 4	THESE DRAWINGS CONSTITUTE THE PROPERTY OF TAMARACK ROOF TRUSSES INC., SHALL NOT BE REPRODUCED, PUBLISHED, OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.	
Layout ID: 408164	Date: 2021-03-12 Sales: Mario DiCano Designer: ACJ		



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

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

HARDWARE:
LUS24 - (O)
HUSC26-2 - (CC)
HGUS26-2 - (XX)

DENOTES
CONV.
FRAMING

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

BM30, BM31 = 2-2X10

M13753



Job Track: 51225
Plan Log: 202404
Layout ID: 408165

Builder / Location:
GREEN PARK HOMES / WATERDOWN
Project: RUSSELL GARDENS PHASE 4
Date: 2021-03-12 Sales: Mario DiCano Designer: AC/IG

Model / Elevation:
VALLEYCREEK 4A/3

Mitek ver 8.4.2.286

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



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH. 4
 Location: WATERDOWN
 Model: VALLEYCREEK 4 A
 Lot #:
 Elevation: 1

Job Track: 51225
 PlanLog: 202404
 Layout ID: 408163
 Ref #
 Page: 1 of 2
 Date: 04-20-2020
 Designer:
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T1 Hip Girder	8/12	31-11-00	5-03-13	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	325.05 201.00		
	1 2-ply	T1Z Hip Girder	8/12	31-11-00	5-03-13	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	325.05 201.00		
	2	T2 Hip	8/12	31-11-00	6-07-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	283.27 180.00		
	2	T3 Hip	8/12	31-11-00	7-11-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	283.41 178.00		
	11	T4 Hip	8/12	31-11-00	9-03-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	1657.97 1032.17		
	4	T5 Common	8/12	26-05-00	10-02-08	2 x 4		1-04-13 1-04-13	483.61 304.00		
	2	T6 Common	8/12	10-09-00	4-11-13	2 x 4		1-04-13 1-04-13	82.8 53.00		
	2	T7S Scissor	8/12 5/12	10-09-00	4-11-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	89.85 60.33		
	1 2-ply	T8 Half Hip Girder	8/12	11-11-08	2-09-08	2 x 4 2 x 6		1-04-13 2-09-08	124.58 84.33		
	2	PB1 Piggyback	8/12	8-02-00	1-04-00	2 x 4			43.92 30.00		
	7	PB2 Piggyback	8/12	8-02-00	2-08-11	2 x 4			142.79 86.33		
	3	J1 Jack-Open	8/12	1-09-07	2-07-02	2 x 4	1-03-08 1-01	1-04-13 2-07-02	26.71 17.00		
	3	J2 Jack-Open	8/12	1-10-08	3-11-02	2 x 4	1-03-08 1-10-15	1-04-13 2-07-13	35.12 23.00		
	3	J3 Jack-Open	8/12	1-09-07	2-07-02	2 x 4	1-03-08 4-01-01	1-04-13 2-07-02	40.4 25.00		

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH.4
 Location: WATERDOWN
 Model: VALLEYCREEK 4 A
 Lot #:
 Elevation: 1

Job Track: 51225
 PlanLog: 202404
 Layout ID: 408163
 Ref #
 Page: 2 of 2
 Date: 04-20-2020
 Designer:
 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	J4 Jack-Open	8 /12	3-09-07	3-11-02	2 x 4	1-03-08 2-01-01	1-04-13 3-11-02	32.6 20.67		
	11	J5 Jack-Open	8 /12	5-10-08	5-03-13	2 x 4	1-03-08	1-04-13 5-03-13	215.33 133.83		
	5	J6 Jack-Open	8 /12	2-01-00	2-09-08	2 x 4	1-03-08	1-04-13 2-09-08	48.82 35.00		
	2	J7 Jack-Open	6 /12	5-04-08	3-07-15	2 x 4	1-03-08	4-03 2-07-11	30.92 20.00		
	8	J8 Jack-Open	6 /12	4-04-08	3-01-15	2 x 4	1-03-08	4-03 2-01-11	99.04 64.00		

TOTAL #TRUSS= 75

TOTAL BFT OF ALL TRUSSES= 2748.66

BFT.

TOTAL WEIGHT OF ALL TRSSES 4371.22 LBS

HARDWARE

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

TOTAL NUMBER OF
ITEMS=

12



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH4
 Location: WATERDOWN
 Model: VALLEYCREEK 4A
 Lot #:
 Elevation: 2

Job Track: 51225
 PlanLog: 202404
 Layout ID: 408164
 Ref #
 Page: 1 of 2
 Date: 04-28-2020
 Designer:
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T21 Hip Girder	6/12	31-11-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	310.75 194.00		
	1	T22 Hip	6/12	31-11-00	5-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	129.52 80.83		
	1	T23 Hip	6/12	31-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	129.12 80.67		
	1	T24 Hip	6/12	31-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	135.81 84.17		
	1	T25 Hip	6/12	31-11-00	8-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	131.28 82.50		
	8	T26 Hip	6/12	31-11-00	9-01-12	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	1033.89 648.67		
	2	T30 Hip	9/12	31-11-00	9-00-08	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	311.42 194.33		
	2	T27 Hip	9/12	31-11-00	5-00-08	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	280.8 183.00		
	2	T28 Hip	9/12	31-11-00	6-04-08	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	274.41 171.00		
	2	T29 Hip	9/12	31-11-00	7-08-08	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	294.84 187.33		
	1	T300 Hip Girder	9/12	31-11-00	3-08-12	2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	184.93 98.50		
	1	T31 Hip Girder	9/12	13-01-00	4-06-04	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	56.46 36.83		
	1	T32 Hip	9/12	13-01-00	7-08-04	2 x 4	1-03-08 1-03-08	3-00-04 3-00-04	70.19 44.00		
	2	J21 Jack-Open	6/12	1-10-15	2-01-08	2 x 4	1-03-08 1-01	1-02-00 2-01-08	14.65 9.33		



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH 4
 Location: WATERDOWN
 Model: VALLEYCREEK 4A
 Lot #:
 Elevation: 2

Job Track: 51225
 PlanLog: 202404
 Layout ID: 408164
 Ref #
 Page: 2 of 2
 Date: 04-28-2020
 Designer:
 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	J22 Jack-Open	6 /12	2-00-00	3-01-08	2 x 4	1-03-08 1-10-15	1-02-00 2-02-00	19.75 12.00		
	2	J23 Jack-Open	6 /12	1-10-15	2-01-08	2 x 4	1-03-08 3-11-09	1-02-00 2-01-08	23.48 14.67		
	2	J24 Jack-Open	6 /12	3-10-15	3-01-08	2 x 4	1-03-08 1-11-09	1-02-00 3-01-08	28.58 17.33		
	11	J25 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	184.74 117.33		
	9	J26 Jack-Open	8 /12	3-05-08	3-08-08	2 x 4	1-03-08	1-04-13 3-08-08	121.59 79.50		
	7	J27 Jack-Open	4 /12	5-10-00	2-08-03	2 x 4	1-03-08	3-15 2-00-04	107.29 65.33		
	7	J28 Jack-Open	10 /12	3-05-08	4-06-04	2 x 4	1-03-08	1-07-11 4-06-04	101.36 71.17		

TOTAL #TRUSS= 67

TOTAL BFT OF ALL TRUSSES= 2450.49

BFT.

TOTAL WEIGHT OF ALL TRSSES 3904.64 LBS



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH.4
 Location: WATERDOWN
 Model: VALLEYCREEK 4A
 Lot #:
 Elevation: 3

Job Track: 51225
 Plan Log: 202404
 Layout ID: 408165
 Ref #
 Page: 1 of 2
 Date: 04-15-2020
 Designer:
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T21 Hip Girder	6/12	31-11-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	310.75 194.00		
	1 2-ply	T21Z Hip Girder	6/12	31-11-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	310.75 194.00		
	2	T22 Hip	6/12	31-11-00	5-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	259.03 161.67		
	2	T23 Hip	6/12	31-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	258.25 161.33		
	2	T24 Hip	6/12	31-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	271.21 168.33		
	2	T25 Hip	6/12	31-11-00	8-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	262.57 165.00		
	7	T26 Hip	6/12	31-11-00	9-01-12	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	904.65 565.83		
	4	T320 Roof Special	6/12	8-03-00	4-01-04	2 x 4		1-00-00 4-01-04	119.18 76.00		
	1	T33S Hip Girder	6/12	13-01-00	3-11-00	2 x 4	1-03-08	1-02-00 1-02-00	54.31 36.00		
	4	T34 Common	6/12	13-01-00	5-00-04	2 x 4	1-03-08	1-02-00 2-04-00	206.67 135.33		
	1	T34CP Hip	6/12	13-01-00	4-11-00	2 x 4	1-03-08	1-02-00 2-04-00	51.56 33.83		
	6	J21 Jack-Open	6/12	1-09-07	2-00-12	2 x 4	1-03-08 1-01	1-02-00 2-00-12	42.13 28.00		
	3	J22 Jack-Open	6/12	1-10-08	3-00-12	2 x 4	1-03-08 1-10-15	1-02-00 2-01-04	28.71 18.00		
	2	J23 Jack-Open	6/12	1-09-07	2-00-12	2 x 4	1-03-08 4-01-01	1-02-00 2-00-12	23.16 14.67		



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH 4
 Location: WATERDOWN
 Model: VALLEYCREEK 4A
 Lot #:
 Elevation: 3

Job Track: 51225
 PlanLog: 202404
 Layout ID: 408165
 Ref #
 Page: 2 of 2
 Date: 04-15-2020
 Designer:
 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	J24 Jack-Open	6 /12	3-09-07	3-00-12	2 x 4	1-03-08 2-01-01	1-02-00 3-00-12	28.26 17.33		
	11	J25 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	184.74 117.33		
	2	J31 Jack-Open	6 /12	1-10-15	2-01-08	2 x 4	1-03-08 1-03-01	1-02-00 2-01-08	17.31 12.00		
	3	J32 Jack-Open	6 /12	3-02-00	2-09-00	2 x 4	1-03-08	1-02-00 2-09-00	30.76 22.00		
	1	J33 Jack-Open	6 /12	6-10-00	2-01-08	2 x 4		8-04 4-01-04	13.22 8.67		
	1	J34 Jack-Open	6 /12	6-10-00	3-01-08	2 x 4		8-04 4-01-04	15.77 10.00		
	3	J35 Jack-Open	6 /12	6-10-00	4-01-04	2 x 4		8-04 4-01-04	67.97 45.00		

TOTAL # TRUSS= 63

TOTAL BFT OF ALL TRUSSES= 2184.32 BFT.

TOTAL WEIGHT OF ALL TRSSES 3460.95 LBS

HARDWARE

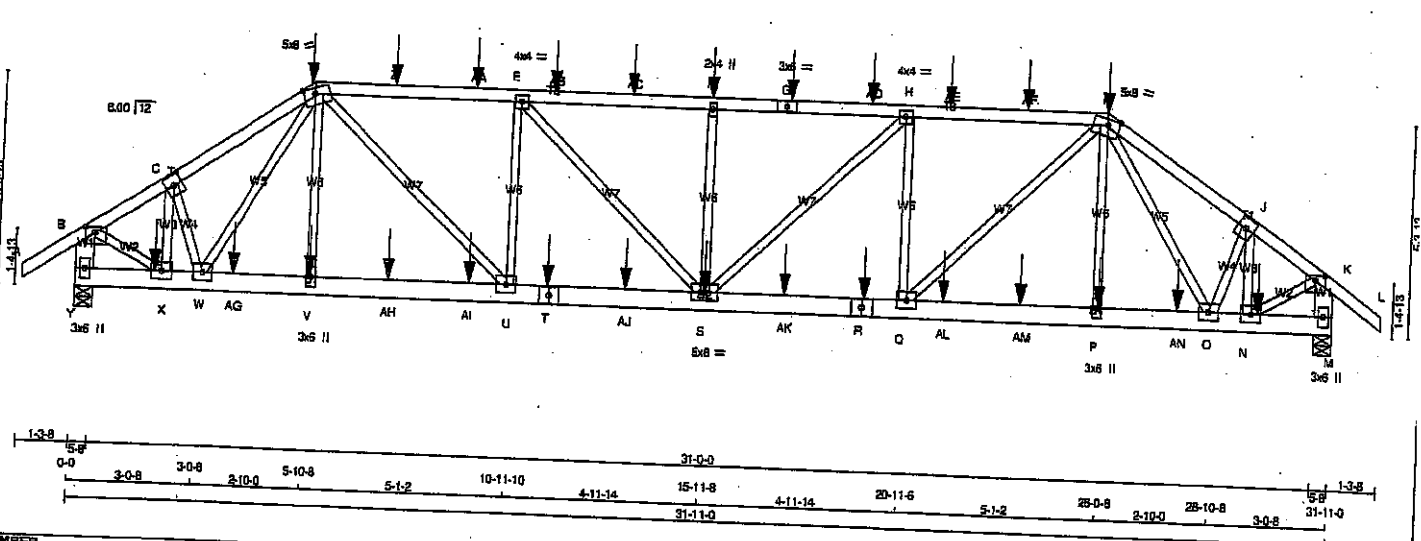
QTY	TYPE	MODEL	LENGTH
9	Hardware	LUS24	
1	Hardware	HGUS26-2	
1	Hardware	HUSC26-2	

TOTAL NUMBER OF
ITEMS=

11

JOB NAME 408163 Tamarack Roof Truss, Burlington	TRUSS NAME T1	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:46:35 2020 Page
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Scale = 1/32



LUMBER

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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-D 1 12	SIDE(61.0)	
D-G 1 12	SIDE(61.0)	
G-I 1 12	SIDE(61.0)	
I-L 1 12	SIDE(61.0)	
L-M 2 12	TOP	
M-K 2 12	TOP	
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
Y-T 2 12	SIDE(183.1)	
T-R 2 12	SIDE(183.1)	
R-M 2 12	SIDE(183.1)	
WEBS : (0.122"x3") SPIRAL NAILS		
V-D 1 8	SIDE(30.3)	
D-Z 1 8	SIDE(30.3)	
Z-AA 1 8	SIDE(30.3)	
AA-E 1 8	SIDE(30.3)	
E-AB 1 8	SIDE(30.3)	
AB-AC 1 8	SIDE(30.3)	
AC-F 1 8	SIDE(30.3)	
F-G 1 8	SIDE(30.3)	
G-AD 1 8	SIDE(30.3)	
AD-H 1 8	SIDE(30.3)	
H-AE 1 8	SIDE(30.3)	
AE-AF 1 8	SIDE(30.3)	
AF-I 1 8	SIDE(30.3)	
I-J 1 8	SIDE(30.3)	
J-K 1 8	SIDE(30.3)	
K-L 1 8	SIDE(30.3)	
L-M 1 8	SIDE(30.3)	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMWV-p	MT20	5.0	6.0	1.50	3.00
C TMWV-t	MT20	5.0	6.0		
D TTWVW-m	MT20	5.0	8.0	1.75	3.50
E TMWV-t	MT20	4.0	4.0		
F TMWV-w	MT20	2.0	4.0		
G TS-t	MT20	3.0	6.0		
H TMWV-t	MT20	4.0	4.0		
I TTWVW-m	MT20	5.0	8.0	1.75	3.50
J TMWV-t	MT20	5.0	6.0		
K TMWV-p	MT20	5.0	6.0	1.50	3.00
M BMV1-p	MT20	3.0	6.0		
N, O, Q, U, W, X					
P BMWV-t	MT20	5.0	6.0		
N BMWV-w	MT20	5.0	6.0		
R BS-t	MT20	5.0	6.0		
S BMWVW-t	MT20	5.0	8.0		
T BS-t	MT20	5.0	6.0		

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT 3538	DOWN 3538	IN-SX	IN-SX
Y	0	0	5-8	5-8
M	0	0	5-8	5-8

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED SNOW LIVE PERMLIVE WIND DEAD SOIL
Y	2500 1655 / 0 0 / 0 0 / 0 0 845 0 0 0
M	2499 1654 / 0 0 / 0 0 / 0 0 845 0 0 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.47 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.

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MEMB.
FR-TO				FR-TO			
A-B	0 / 35	-91.8 -91.8 0.07 (1)	10.00	X-C	-1140 / 0	0.10 (1)	
B-C	-3538 / 0	-91.8 -91.8 0.10 (1)	4.91	V-D	0 / 285	0.04 (4)	
C-D	-3538 / 0	-91.8 -91.8 0.15 (1)	4.70	D-U	0 / 2415	0.30 (1)	
D-Z	-5401 / 0	-91.8 -91.8 0.54 (1)	3.65	U-E	-1507 / 0	0.31 (1)	
Z-AA	-5401 / 0	-91.8 -91.8 0.54 (1)	3.65	E-S	0 / 703	0.09 (1)	
AA-E	-5401 / 0	-91.8 -91.8 0.54 (1)	3.65	S-F	-836 / 0	0.17 (1)	
E-AB	-5401 / 0	-91.8 -91.8 0.57 (1)	3.47	F-H	0 / 708	0.09 (1)	
AB-AC	-5401 / 0	-91.8 -91.8 0.57 (1)	3.47	H-I	-1505 / 0	0.31 (1)	
AC-F	-5401 / 0	-91.8 -91.8 0.57 (1)	3.48	I-J	0 / 2413	0.30 (1)	
F-G	-5401 / 0	-91.8 -91.8 0.57 (1)	3.48	J-K	0 / 265	0.04 (4)	
G-AD	-5401 / 0	-91.8 -91.8 0.57 (1)	3.48	K-L	-1139 / 0	0.10 (1)	
AD-H	-5401 / 0	-91.8 -91.8 0.57 (1)	3.48	L-M	0 / 3248	0.40 (1)	
H-AE	-5387 / 0	-91.8 -91.8 0.54 (1)	3.65	M-N	0 / 3247	0.40 (1)	
AE-AF	-5387 / 0	-91.8 -91.8 0.54 (1)	3.65	N-O	0 / 681	0.08 (1)	
AF-I	-5397 / 0	-91.8 -91.8 0.54 (1)	3.65	O-P	-948 / 0	0.28 (1)	
I-J	-3860 / 0	-91.8 -91.8 0.10 (1)	4.91	P-Q	0 / 681	0.08 (1)	
J-K	-3536 / 0	-91.8 -91.8 0.07 (1)	10.00	Q-R	-947 / 0	0.28 (1)	
K-L	0 / 35	0.0 0.0 0.13 (1)	7.48				
L-M	-3500 / 0	0.0 0.0 0.13 (1)	7.48				
M-K	-3498 / 0	0.0 0.0 0.13 (1)	7.48				
Y-X	0 / 0	-18.5 -18.5 0.02 (1)	10.00				
X-W	0 / 2981	-18.5 -18.5 0.26 (1)	10.00				
W-A	0 / 3659	-18.5 -18.5 0.30 (1)	10.00				
A-G	0 / 3659	-18.5 -18.5 0.30 (1)	10.00				
V-AH	0 / 3665	-18.5 -18.5 0.28 (1)	10.00				
AH-AI	0 / 3665	-18.5 -18.5 0.28 (1)	10.00				
AI-U	0 / 3665	-18.5 -18.5 0.28 (1)	10.00				
U-T	0 / 5401	-18.5 -18.5 0.40 (1)	10.00				
T-AJ	0 / 5401	-18.5 -18.5 0.40 (1)	10.00				
AJ-S	0 / 5401	-18.5 -18.5 0.40 (1)	10.00				
S-AK	0 / 5398	-18.5 -18.5 0.40 (1)	10.00				
AK-R	0 / 5398	-18.5 -18.5 0.40 (1)	10.00				
R-Q	0 / 5398	-18.5 -18.5 0.40 (1)	10.00				
Q-AL	0 / 3663	-18.5 -18.5 0.28 (1)	10.00				
AL-AM	0 / 3663	-18.5 -18.5 0.28 (1)	10.00				
AM-P	0 / 3663	-18.5 -18.5 0.28 (1)	10.00				
P-AN	0 / 3658	-18.5 -18.5 0.30 (1)	10.00				
AN-O	0 / 3658	-18.5 -18.5 0.30 (1)	10.00				
O-N	0 / 2860	-18.5 -18.5 0.28 (1)	10.00				
N-M	0 / 0	-18.5 -18.5 0.02 (1)	10.00				

TOTAL WEIGHT = 2 X 163 = 325 lb

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

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 2010, CBC 2012, ABC 2019
- PART 9 OF NBCC 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 (1.06")
CALCULATED VERT. DEF. (LL) = L/999 (0.12")
ALLOWABLE DEF. (TL) = L/360 (1.06")
CALCULATED VERT. DEF. (TL) = L/999 (0.23")

CSI: TC=0.57/1.00 (E-F:1), BC=0.40/1.00 (S-U:1), WB=0.40/1.00 (B-X:1), SS=0.23/1.00 (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 KEELS OFF

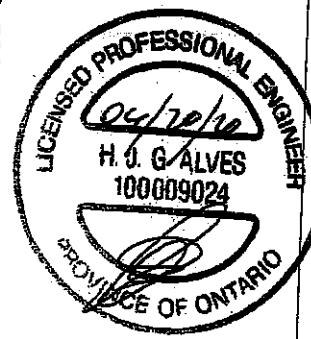
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

SI GRIP= 0.85 (I) (INPUT = 0.99)
SI METAL= 0.50 (R) (INPUT = 1.00)



Structural component only 1/1

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408163	T1	1	2	GREEN PARK HOMES	
Tamarack Rod Truss, Burlington				TRUSS DESC.	

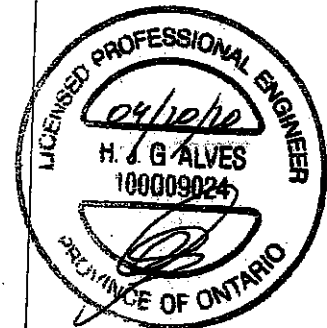
Version 8.310 S Oct 28 2019 MTek Industries, Inc. Fri Apr 17 08:46:35 2020 Page 2
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PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
V	BMW-vw	4MT20	3.0	6.0	
Y	BMV1-p	MT20	3.0	6.0	

FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	5-10-8	-584	-584		FRONT	VERT	TOTAL		C1
F	15-11-8	-178	-178		FRONT	VERT	TOTAL		C1
G	17-11-12	-178	-178		FRONT	VERT	TOTAL		C1
I	28-0-8	-584	-584		FRONT	VERT	TOTAL		C1
N	25-11-12	-36	-36		FRONT	VERT	TOTAL		C1
P	25-11-12	-36	-36		FRONT	VERT	TOTAL		C1
R	19-11-12	-36	-36		FRONT	VERT	TOTAL		C1
S	15-11-8	-36	-36		FRONT	VERT	TOTAL		C1
T	11-11-4	-36	-36		FRONT	VERT	TOTAL		C1
V	5-11-4	-36	-36		FRONT	VERT	TOTAL		C1
X	1-11-4	-36	-36		FRONT	VERT	TOTAL		C1
Z	7-11-4	-178	-178		FRONT	VERT	TOTAL		C1
AA	9-11-4	-178	-178		FRONT	VERT	TOTAL		C1
AB	11-11-4	-178	-178		FRONT	VERT	TOTAL		C1
AC	13-11-4	-178	-178		FRONT	VERT	TOTAL		C1
AD	19-11-12	-178	-178		FRONT	VERT	TOTAL		C1
AE	21-11-12	-178	-178		FRONT	VERT	TOTAL		C1
AF	23-11-12	-178	-178		FRONT	VERT	TOTAL		C1
AG	3-11-4	-36	-36		FRONT	VERT	TOTAL		C1
AH	7-11-4	-36	-36		FRONT	VERT	TOTAL		C1
AI	9-11-4	-36	-36		FRONT	VERT	TOTAL		C1
AJ	13-11-4	-36	-36		FRONT	VERT	TOTAL		C1
AK	17-11-12	-36	-36		FRONT	VERT	TOTAL		C1
AL	21-11-12	-36	-36		FRONT	VERT	TOTAL		C1
AM	23-11-12	-36	-36		FRONT	VERT	TOTAL		C1
AN	27-11-12	-36	-36		FRONT	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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



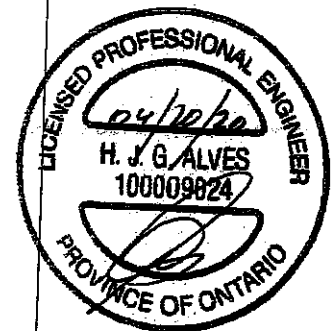
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408163	T1Z	1	2	GREEN PARK HOMES		
Tamarack Roof Truss, Burlington						

Version 8.310 S Oct 29 2019 Mittek Industries, Inc. Fri Apr 17 08:46:36 2020 Page
ID:KIHNL?kIAuBVUqBmQW7E8zls6v-LzTSS0elOcsOImTIs43m0hpSgkKgM5c8G_o893zPtX

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
T	BS-I	MT20	5.0	6.0		
V	BMW+V	MT20	3.0	6.0		
X	BMWV+I	MT20	7.0	6.0	4.25	2.50
Y	BMV1+I	MT20	6.0	9.0	5.50	

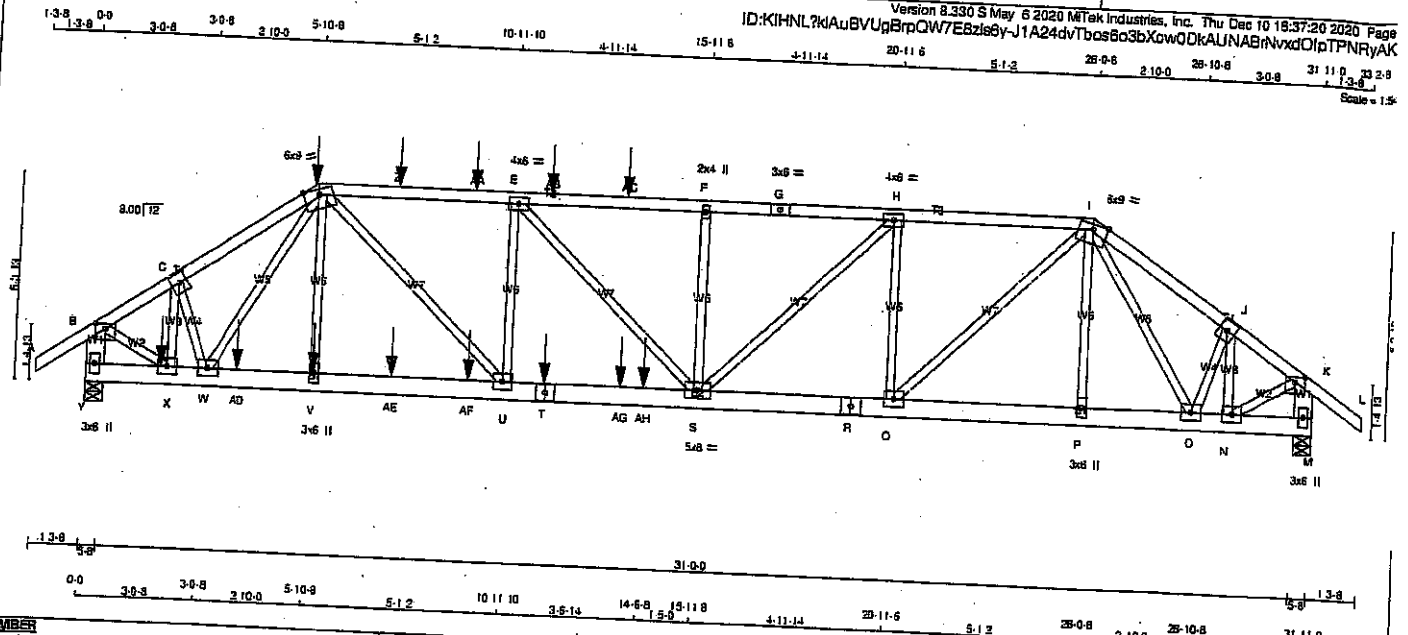
Edge - INDICATES REFERENCE CORNER OF PLATE
TOUCHES EDGE OF CHORD.



JOB NAME 415113	TRUSS NAME T1Z3	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MTEK Industries, Inc. Thu Dec 10 18:37:20 2020 Page
ID:KHNL?K1AuBVUgBrpQW7E8zlsy-J1A24dvTbos6o3bXowQdKAUNABNvxdOlpTPNryAK
Scale = 1/8"



LUMBER	N. L. G. A. RULES	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - G	2x4	DRY	No.2	SPF
G - I	2x4	DRY	No.2	SPF
I - L	2x4	DRY	No.2	SPF
Y - B	2x6	DRY	No.2	SPF
M - K	2x6	DRY	No.2	SPF
Y - T	2x6	DRY	No.2	SPF
T - R	2x6	DRY	No.2	SPF
R - M	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.
DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-D 1 12		SIDE(51.0)
D-G 1 12		SIDE(51.0)
G-I 1 12		TOP
I-L 1 12		TOP
Y-B 2 12		TOP
M-K 2 12		TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
Y-T 2 12		SIDE(183.1)
T-R 2 12		SIDE(183.1)
R-M 2 12		TOP
WEBS : (0.122"x3") SPIRAL NAILS		
V-D 1 6		SIDE(51.0)
2x3 1 6		

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.
GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.
TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

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

FACTORED	GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
JT	3786	0	3786	0	5-8	5-8
M	2942	0	2942	0	5-8	5-8

UNFACTORED REACTIONS	1ST LC CASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
JT	2872	1783	0	0	0	889	0
M	2075	1394	0	0	0	581	0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) Y, M.
BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.30 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING

CHORDS			FACTORED			WEBS		
MEMB.	FORCE	VERT. LOAD	LC1	MAX	MAX	MEMB.	MAX. FACTORED	MAX
	(LBS)	PLF	CS1 (LC)	CS1 (LC)	UNBRAC		FORCE	CS1 (LC)
FROM					LENGTH	FR-TO		
A-B	0 35	-91.8	-91.8	0.07 (1)	10.00	X-C	-1248 0	0.11 (1)
B-C	-3804 0	-91.8	-91.8	0.11 (1)	4.76	V-D	0 170	0.03 (4)
C-D	-4166 0	-91.8	-91.8	0.16 (1)	4.55	D-U	0 2890	0.36 (1)
D-Z	-6017 0	-91.8	-91.8	0.59 (1)	3.42	U-E	-1388 0	0.28 (1)
Z-AA	-6017 0	-91.8	-91.8	0.59 (1)	3.42	E-S	0 509	0.06 (1)
AA-E	-6017 0	-91.8	-91.8	0.59 (1)	3.42	S-F	-532 0	0.11 (1)
E-AB	-6379 0	-91.8	-91.8	0.81 (1)	3.30	S-H	0 2051	0.25 (1)
AB-AC	-6379 0	-91.8	-91.8	0.81 (1)	3.30	C-H	-1941 0	0.39 (1)
AC-F	-6379 0	-91.8	-91.8	0.37 (1)	3.61	C-I	0 2674	0.33 (1)
F-G	-6379 0	-91.8	-91.8	0.37 (1)	3.61	P-I	0 233	0.03 (1)
G-H	-4922 0	-91.8	-91.8	0.30 (1)	4.12	N-J	-940 0	0.08 (1)
H-I	-3154 0	-91.8	-91.8	0.73 (1)	5.11	N-K	0 3481	0.43 (1)
I-J	-2901 0	-91.8	-91.8	0.10 (1)	5.32	C-W	0 2668	0.33 (1)
J-K	0 35	-91.8	-91.8	0.07 (1)	10.00	W-D	-999 0	0.10 (1)
K-L	-3748 0	0.0	0.0	0.13 (1)	7.29	O-J	0 509	0.27 (1)
L-M	-2906 0	0.0	0.0	0.10 (1)	7.81	I-O	-792 0	0.06 (1)
								0.21 (1)
	0 0	-18.5	-18.5	0.01 (1)	10.00			
	0 3182	-18.5	-18.5	0.27 (1)	10.00			
	0 3937	-18.5	-18.5	0.32 (1)	10.00			
	0 3937	-18.5	-18.5	0.32 (1)	10.00			
	0 3940	-18.5	-18.5	0.38 (1)	10.00			
	0 3940	-18.5	-18.5	0.38 (1)	10.00			
	0 3940	-18.5	-18.5	0.38 (1)	10.00			
	0 6017	-18.5	-18.5	0.80 (1)	10.00			
	0 6017	-18.5	-18.5	0.80 (1)	10.00			
	0 6017	-18.5	-18.5	0.80 (1)	10.00			
	0 6017	-18.5	-18.5	0.80 (1)	10.00			
	0 4922	-18.5	-18.5	0.48 (1)	10.00			
	0 4922	-18.5	-18.5	0.48 (1)	10.00			
	0 3000	-18.5	-18.5	0.25 (1)	10.00			
	0 2995	-18.5	-18.5	0.26 (1)	10.00			
	0 2432	-18.5	-18.5	0.22 (1)	10.00			
	0 0	-18.5	-18.5	0.01 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)		LOC	MAX.	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
JT	D								
JT	5-10-8	-405	-405	-	FRONT	VERT	TOTAL	-	C1
D	11-11-4	-29	-29	-	FRONT	VERT	TOTAL	-	C1
V	5-11-4	-29	-29	-	FRONT	VERT	TOTAL	-	C1
X	1-11-4	-29	-29	-	FRONT	VERT	TOTAL	-	C1

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
DL = 5.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF
SPACING = 24.0 IN/C/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 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 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.28")

CSI: TC=0.61 (1.00 (E-F:1), BC=0.80 (1.00 (S-U:1), WB=0.43 (1.00 (B-X:1), SS=0.37 (1.00 (S-U:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1956

PLATE PLACEMENT TOL = 0 250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.86 (X) (INPUT = 0.90)
JSI METAL = 0.57 (T) (INPUT = 1.00)



Structural component only
DWG# T-2028338

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
415113	T1Z3	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.330 S May 6 2020 MTek Industries, Inc. Thu Dec 10 16:37:20 2020 Page: 1
ID:KIHNL7KIAuBVUqBrpQW7E8zls6v-J1A24dvTbos6c3bXow0DkAUNABrNvdOlPpNRvAKE

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-t	MT20	5.0	6.0		
D	TTWW-m	MT20	6.0	9.0	Edge	
E	TMVW-t	MT20	4.0	6.0		
F	TMVW-w	MT20	2.0	4.0		
G	TS-t	MT20	3.0	6.0		
H	TMVW-t	MT20	4.0	6.0		
I	TTWW-m	MT20	6.0	9.0	Edge	
J	TMVW-t	MT20	5.0	6.0		
K	TMVW-p	MT20	5.0	6.0	1.50	3.00
M	BMV1-p	MT20	3.0	6.0		
N, O, Q, U, W, X						
N	BMVW-t	MT20	5.0	6.0		
P	BMVW-w	MT20	3.0	6.0		
R	BS-t	MT20	5.0	6.0		
S	BMVW-t	MT20	5.0	6.0		
T	BS-t	MT20	5.0	6.0		
V	BMVW-w	MT20	3.0	6.0		
Y	BMV1-p	MT20	3.0	6.0		

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

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
Z	7-11-4	-122	-122	---	FRONT	VERT	TOTAL	---	C1
AA	9-11-4	-122	-122	---	FRONT	VERT	TOTAL	---	C1
AB	11-11-4	-122	-122	---	FRONT	VERT	TOTAL	---	C1
AC	13-11-4	-122	-122	---	FRONT	VERT	TOTAL	---	C1
AD	3-11-4	-29	-29	---	FRONT	VERT	TOTAL	---	C1
AE	7-11-4	-29	-29	---	FRONT	VERT	TOTAL	---	C1
AF	9-11-4	-29	-29	---	FRONT	VERT	TOTAL	---	C1
AG	13-11-4	-29	-29	---	FRONT	VERT	TOTAL	---	C1
AH	14-6-8	-990	-990	---	FRONT	VERT	TOTAL	---	C1

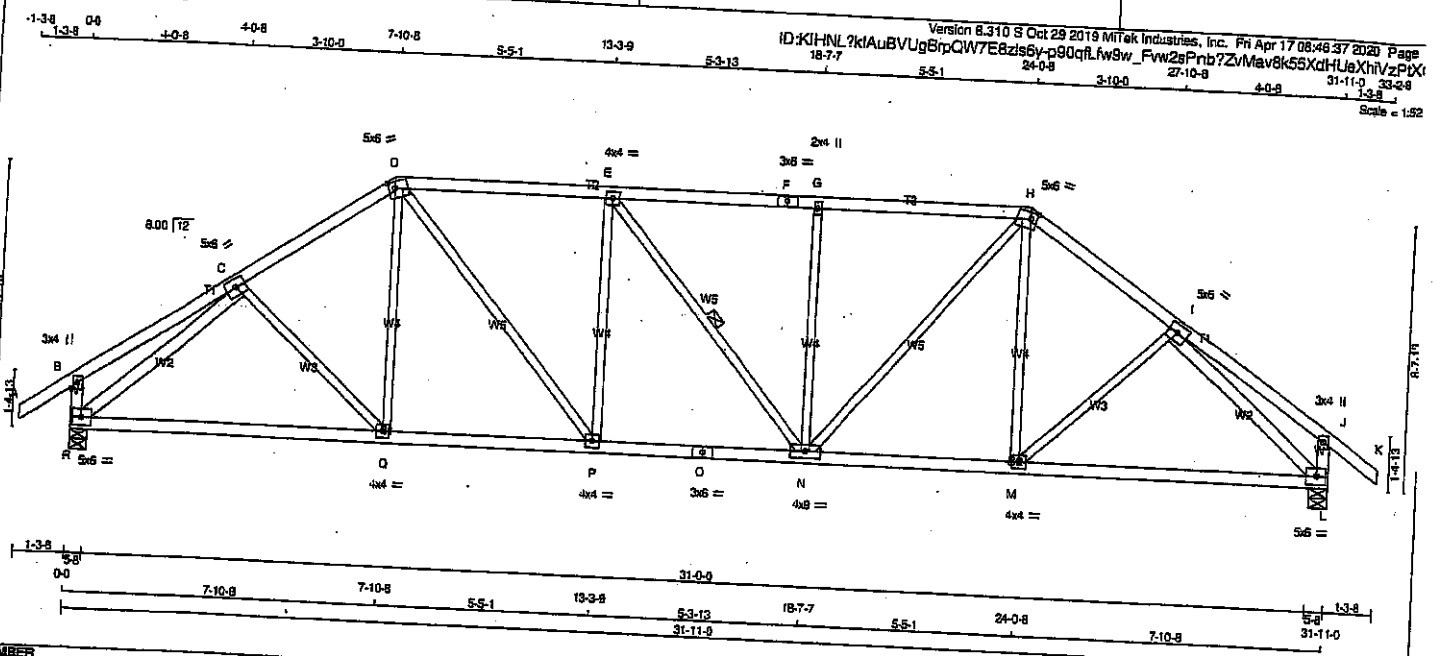
CONNECTION REQUIREMENTS

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



Structural component only
DWG# T-2028338

JOB NAME 408163	TRUSS NAME T2	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington						



LUMBER

N.L.G.A. RULES

CHORDS	SIZE	DRY	LUMBER
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - K	2x4	DRY	No.2
K - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
R - O	2x4	DRY	No.2
O - L	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2

EXCEPT

R - C 2x4 DRY No.2

I - L 2x4 DRY No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV-p	MT20	3.0	4.0		
C	TMVW-t	MT20	5.0	8.0		
D	TTVW-m	MT20	5.0	6.0	2.00	2.00
E	TMVW-t	MT20	4.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TMVW-w	MT20	2.0	4.0		
H	TTVW-m	MT20	5.0	6.0	2.00	2.00
I	TMVW-t	MT20	5.0	6.0		
J	TMV-p	MT20	3.0	4.0		
L	BMVW1-t	MT20	5.0	6.0		
M, P, Q						
M	BMVW-t	MT20	4.0	4.0		
N	BMVWW-t	MT20	4.0	8.0		
O	BS-t	MT20	3.0	6.0		
R	BMVW1-t	MT20	5.0	6.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	RECORD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
R	1885	0	1885	0	5-8	5-8
L	1885	0	1885	0	5-8	5-8

UNFACTORED REACTIONS

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

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.12 FT.

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

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. UNBRACED LENGTH (FT)
FR-TO				FR-TO			
A-B	0.35	-91.8	0.12 (1)	C-Q	0.57	0.02 (4)	10.00
B-C	0.22	-91.8	0.22 (1)	Q-D	0.145	0.05 (4)	10.00
C-D	-2020.0	-91.8	0.29 (1)	D-P	0.814	0.18 (1)	4.49
D-E	-2191.0	-91.8	0.47 (1)	P-E	-533.0	0.38 (1)	4.12
E-F	-2189.0	-91.8	0.47 (1)	E-N	-2.0	0.00 (1)	4.12
F-G	-2189.0	-91.8	0.47 (1)	N-G	-533.0	0.38 (1)	4.12
G-H	-2189.0	-91.8	0.47 (1)	H-I	0.811	0.18 (1)	4.13
H-I	-2020.0	-91.8	0.29 (1)	I-J	0.147	0.05 (4)	4.49
I-J	0.22	-91.8	0.22 (1)	M-H	0.57	0.02 (4)	10.00
J-K	0.35	-91.8	0.12 (1)	R-C	-2272.0	0.77 (1)	7.81
K-B	-266.0	0.0	0.03 (1)	L-L	-2273.0	0.77 (1)	7.81
L-J	-266.0	0.0	0.03 (1)				
R-Q	0.1655	-18.5	0.40 (1)				
Q-P	0.1662	-18.5	0.40 (1)				
P-O	0.2191	-18.5	0.41 (1)				
O-N	0.2191	-18.5	0.41 (1)				
N-M	0.1662	-18.5	0.41 (1)				
M-L	0.1655	-18.5	0.40 (1)				

TOTAL WEIGHT = 2 X 142 = 283 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	PSF
DL	25.8	PSF
BOT CH.	LL	PSF
DL	6.0	PSF
LL	0.0	PSF
DL	7.4	PSF
TOTAL LOAD	39.0	PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

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

CALCULATED VERT. DEFL.(LL) = L/999 (0.10")

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

CALCULATED VERT. DEFL.(TL) = L/999 (0.19")

CS: TC=0.47/1.00 (D-E:1), BC=0.41/1.00 (N-P:1), WB=0.77/1.00 (L-L:1), SS=0.23/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

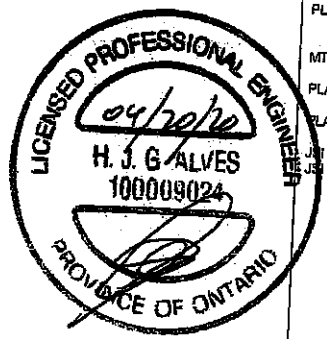
PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PL)
MAX MIN	MAX MIN	MAX MIN
616	354	1657
768	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

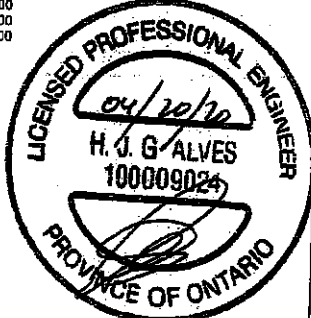
PLATE ROTATION TOL. = 5.0 Deg.

JT GRIP= 0.85 (D) (INPUT = 0.90)

JT METAL= 0.73 (O) (INPUT = 1.00)



Tamarack Roof Truss, Burlington

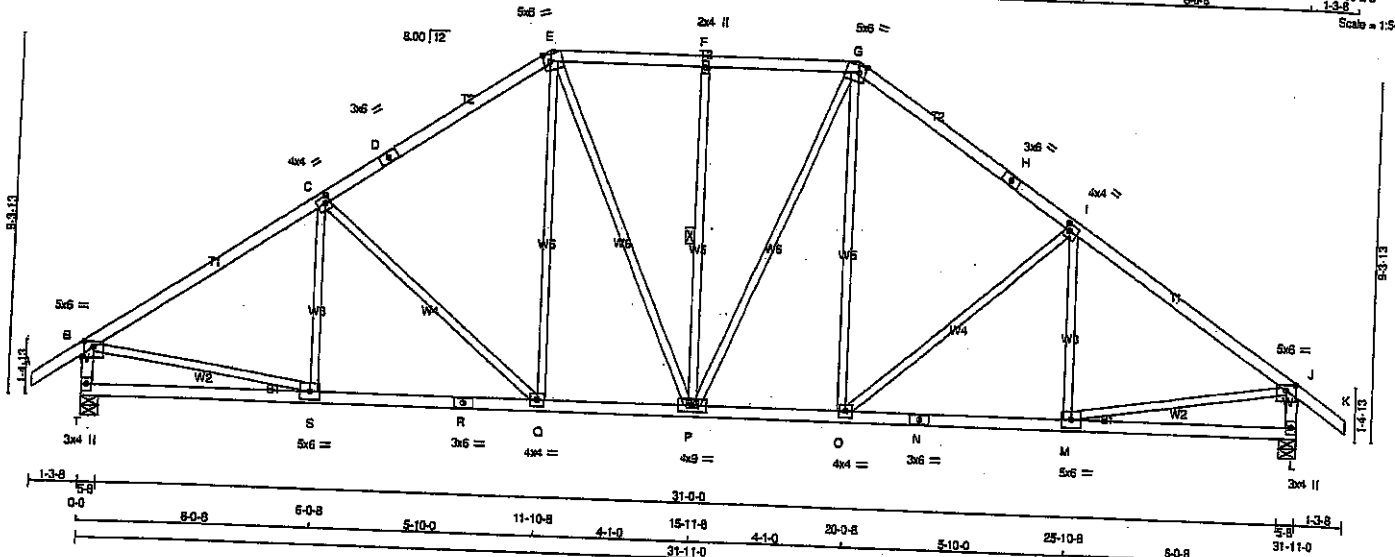
$$S_{\text{mean}} = 1.52$$


Structural component only.

JOB NAME 408163	TRUSS NAME T4	QUANTITY 11	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:46:40 2020 Page
ID:KIHNL7kAuBVUgBmQW7EBz56y-EklyHNh0SnNmR5w8IBX_4MmZixAjAcmlLqzPLX
31-11-9 33-2-8 1-3-8
Scale = 1:54



LUMBER

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW-p	MT20	5.0	8.0	1.75	3.00
C TMVW-i	MT20	4.0	4.0	2.00	1.50
D TS-i	MT20	3.0	6.0		
E TMVW-m	MT20	5.0	6.0	2.25	2.00
F TMVW-w	MT20	2.0	4.0		
G TTWW-m	MT20	5.0	6.0	2.25	2.00
H TS-i	MT20	3.0	8.0		
I TMVW-i	MT20	4.0	4.0	2.00	1.50
J TMVW-p	MT20	5.0	6.0	1.75	3.00
L BMVW-i	MT20	3.0	4.0		
M BMVW-i	MT20	5.0	6.0		
N BS-i	MT20	3.0	6.0		
O BMVW-i	MT20	4.0	4.0		
P BMVW-w	MT20	4.0	9.0		
Q BMVW-i	MT20	4.0	4.0		
R BS-i	MT20	3.0	6.0		
S BMVW-i	MT20	5.0	8.0		
T BMV-i-p	MT20	3.0	4.0		

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG IN-SX	REQRD BRG IN-SX
JT	VERT	DOWN	5-8	5-8
T	1885	0	0	0
L	1885	0	0	0

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
T	1331	887 / 0	0 / 0	0 / 0	444 / 0	0 / 0
L	1331	887 / 0	0 / 0	0 / 0	444 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.16 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 P-P.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
A-B	0 / 35					S-C	-194 / 35	0.08 (1)
B-C	-2097 / 0	-91.8	-91.8	0.12 (1)	10.00	C-Q	-420 / 0	0.53 (1)
C-D	-1780 / 0	-91.8	-91.8	0.53 (1)	4.16	Q-E	0 / 369	0.08 (1)
D-E	-1780 / 0	-91.8	-91.8	0.48 (1)	4.48	E-P	0 / 280	0.06 (1)
E-F	-1576 / 0	-91.8	-91.8	0.21 (1)	5.05	P-G	-449 / 0	0.25 (1)
F-G	-1576 / 0	-91.8	-91.8	0.21 (1)	5.05	G-H	0 / 280	0.06 (1)
G-H	-1780 / 0	-91.8	-91.8	0.48 (1)	4.48	H-I	0 / 369	0.08 (1)
H-I	-1780 / 0	-91.8	-91.8	0.48 (1)	4.48	I-J	-420 / 0	0.53 (1)
I-J	-2097 / 0	-91.8	-91.8	0.53 (1)	4.16	J-K	-194 / 35	0.08 (1)
J-K	0 / 35	-91.8	-91.8	0.12 (1)	10.00	K-L	0 / 1803	0.41 (1)
K-L	-1839 / 0	0.0	0.0	0.19 (1)	6.18	L-M	0 / 1803	0.41 (1)
L-M	-1839 / 0	0.0	0.0	0.19 (1)	6.18			
T-S	0 / 0	-18.5	-18.5	0.16 (4)	10.00			
S-R	0 / 1775	-18.5	-18.5	0.36 (1)	10.00			
R-Q	0 / 1775	-18.5	-18.5	0.36 (1)	10.00			
Q-P	0 / 1461	-18.5	-18.5	0.29 (1)	10.00			
P-O	0 / 1461	-18.5	-18.5	0.29 (1)	10.00			
O-N	0 / 1775	-18.5	-18.5	0.36 (1)	10.00			
N-M	0 / 1775	-18.5	-18.5	0.36 (1)	10.00			
M-L	0 / 0	-18.5	-18.5	0.16 (4)	10.00			

TOTAL WEIGHT = 11 X 151 = 1658 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF
DL = 8.0 PSF
BOT CH. LL = 18.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. CG

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.53/1.00 (B-C:1), BC=0.36/1.00 (Q-S:1),
WB=0.53/1.00 (C-Q:1), SS=0.22/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

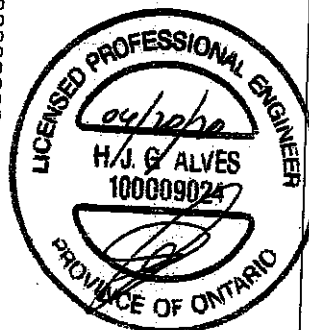
NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1657 788 1987 1656

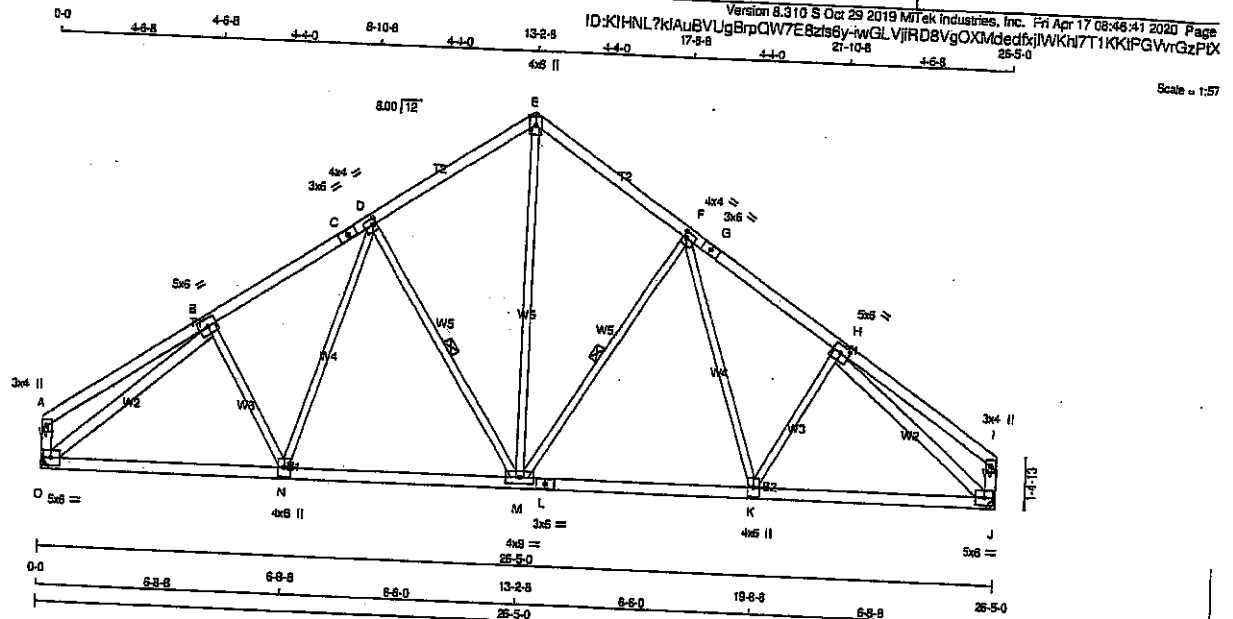
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SI GRIP=0.84 (B) (INPUT = 0.60)
SI METAL=0.57 (N) (INPUT = 1.00)



JOB NAME 408163 Tamarack Road Truss, Burlington	TRUSS NAME T5	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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LUMBER			
N.L.G.A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
G - I	2x4	DRY	No.2
I - K	2x4	DRY	No.2
K - L	2x4	DRY	No.2
L - J	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
O - B	2x4	DRY	No.2
H - J	2x4	DRY	No.2

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMV+p	MT20	3.0	4.0	
B	TMVW-t	MT20	5.0	6.0	
C	TS-t	MT20	3.0	6.0	
D	TMVW-t	MT20	4.0	4.0	2.00 1.00
E	TTW+p	MT20	4.0	6.0	Edge
F	TMVW-t	MT20	4.0	4.0	2.00 1.00
G	TS-t	MT20	3.0	6.0	
H	TMVW-t	MT20	5.0	6.0	
I	TMV+p	MT20	3.0	4.0	
J	BMVW-t	MT20	5.0	6.0	
K	BMVW-t	MT20	4.0	6.0	
L	BS-t	MT20	3.0	6.0	
M	BMVWW-t	MT20	4.0	9.0	
N	BMVW-t	MT20	4.0	6.0	
O	BMVW-t	MT20	5.0	6.0	

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	RECORD
JT	GROSS REACTION	VERT	GROSS REACTION	BRG	BRG
O	1456	0	1456	0	0
J	1456	0	1456	0	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT O. J. MINIMUM BEARING LENGTH AT JOINT O = 3'-6", JOINT J = 3'-8".

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
O	1030	676.0	0.0	0.0	354.0	0.0
J	1030	676.0	0.0	0.0	354.0	0.0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. FURLIN SPACING = 5.05 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-M, D-M.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0/21	M-E	0/985
B-C	-1580/0	M-F	-511/0
C-D	-1580/0	F-K	0/226
D-E	-1198/0	K-H	-92/25
E-F	-1198/0	D-M	-511/0
F-G	-1580/0	M-D	0/226
G-H	-1580/0	H-N	-92/25
H-I	0/21	O-B	-1842/0
I-A	-184/0	H-J	-1842/0
J-I	-184/0		
O-N	0/1361		
N-M	0/1248		
M-L	0/1248		
L-K	0/1248		
K-J	0/1361		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 38.0 PSF

SPACING = 24.0 IN. OC

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 085-09, CSA 085-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.88")
CALCULATED VERT. DEFL.(LL) = L/899 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.88")
CALCULATED VERT. DEFL.(TL) = L/998 (0.11")

CSI: TC=0.23/1.00 (H-K), BC=0.32/1.00 (J-K), WB=0.79/1.00 (H-J), SS=0.16/1.00 (H-K)

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 HELLS OFF

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

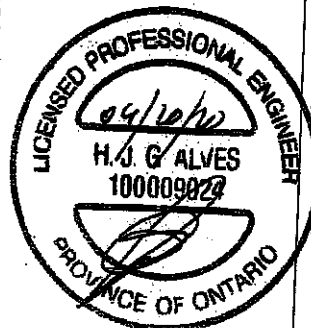
NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1967 788 1987 1658

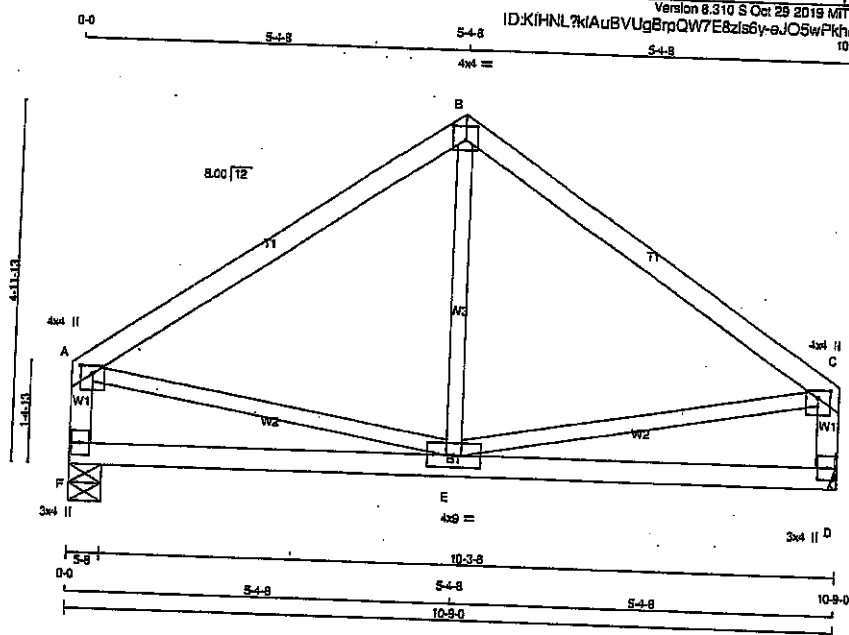
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (M) (INPUT = 0.90)
JSI METAL = 0.46 (H) (INPUT = 1.00)



JOB NAME 408163	TRUSS NAME T6	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



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10-9-0
Scale = 1/2"

LUMBER				
N. L. G. A. RULES				
CHORDS		SIZE		LUMBER
A - B	2x4	DRY		No.2
B - C	2x4	DRY		No.2
F - A	2x4	DRY		No.2
D - C	2x4	DRY		No.2
F - D	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+p	MT20	4.0	4.0	1.25	2.00
B	TTW-p	MT20	4.0	4.0	2.25	2.00
C	TMVW+p	MT20	4.0	4.0	1.25	2.00
D	BMV1+p	MT20	3.0	4.0		
E	BMVWW-I	MT20	4.0	9.0		
F	BMV1+p	MT20	3.0	4.0		

BEARINGS

DESCR.	SPF	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	SPF	VERT	HORZ	DOWN	HORZ
F	SPF	583	0	583	0
D	SPF	583	0	583	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS
F	COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
F	419	275 / 0 0 / 0 0 / 0 0 / 0 144.0 0 / 0
D	419	275 / 0 0 / 0 0 / 0 0 / 0 144.0 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 (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	MAX. FACTORED LENGTH (FT)	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)
A-B		-426 / 0	-91.8	-91.8	0.34 (1)	E-B		-20 / 85	0.03 (4)
B-C		-426 / 0	-91.8	-91.8	0.34 (1)	A-E		0 / 362	0.08 (1)
F-A		-554 / 0	0.0	0.0	0.08 (1)	E-C		0 / 362	0.08 (1)
D-C		-554 / 0	0.0	0.0	0.08 (1)				
F-E		0 / 0	-18.5	-18.5	0.15 (4)				
E-D		0 / 0	-18.5	-18.5	0.15 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.5 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. G/C

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

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

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

ALLOWABLE DEFL. (LL) = L/360 (0.36")
CALCULATED VERT. DEFL. (LL) = 1/999 (0.01")
ALLOWABLE DEFL. (TL) = L/360 (0.36")
CALCULATED VERT. DEFL. (TL) = 1/999 (0.02")

CSI: TC=0.34/1.00 (B-C:1), BC=0.15/1.00 (D-E:4), WB=0.08/1.00 (C-E:1), SS=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.

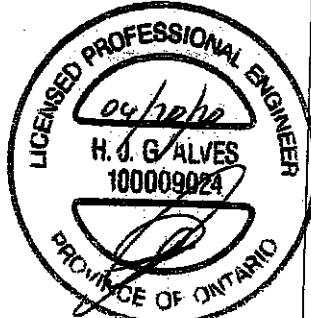
NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.45 (C) (INPUT = 0.90)
JSI METAL = 0.13 (C) (INPUT = 1.00)



Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Fri Apr 17 08:48:44 2020 Page
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Structural component only

JOB NAME 408163	TRUSS NAME T8	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

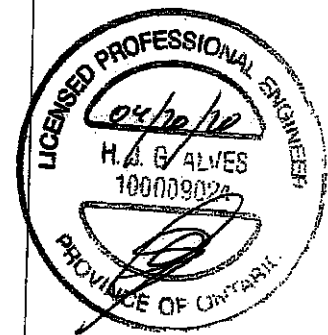
Version 8.310 5 Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 14:14:48 2020 Page 1
ID:KIHNL2KIAuBVUqBrpQW7E8zls6y-mNKqMOvOu_rJm?UJIMc7KQc9IACD6rdQox8JhzPol

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

FACTORED CONCENTRATED LOADS (LBS)									
JT	LDC	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
Q	10-1-12	-4	-4	---	BACK	VERT	TOTAL	---	C1
R	9-1-12	-702	-702	---	FRONT	VERT	TOTAL	---	C1
S	2-9-12	-574	-574	---	FRONT	VERT	TOTAL	---	C1
T	9-1-12	-6	-6	---	BACK	VERT	TOTAL	---	C1
U	7-1-12	-1438	-1438	---	FRONT	VERT	TOTAL	---	C1
V	8-1-12	-1	-1	---	BACK	VERT	TOTAL	---	C1
W	10-1-12	-1	-1	---	BACK	VERT	TOTAL	---	C1
X	11-1-12	-1439	-1439	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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



Version 8.310 S Oct 29 2019 MITek Industries, Inc. Fri Apr 17 08:44:20 2020 Page
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13-8 5-10-8 5-10-8 10-11-10 5-1-2 4-11-14 15-11-8 4-11-14 20-11-8 5-1-2 25-0-8 31-11-0 33-2-3
1-3-8 5-10-8 5-10-8 10-11-10 5-1-2 4-11-14 15-11-8 4-11-14 20-11-8 5-1-2 25-0-8 31-11-0 33-2-3
Scale: 1:100

Structural component only. //

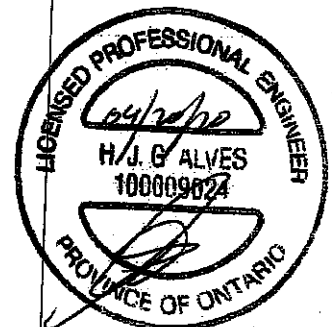
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408165	T21	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

Version 8.310 5 Oct 2019 Mitak Industries, Inc. Fri Apr 17 08:44:20 2020 Page
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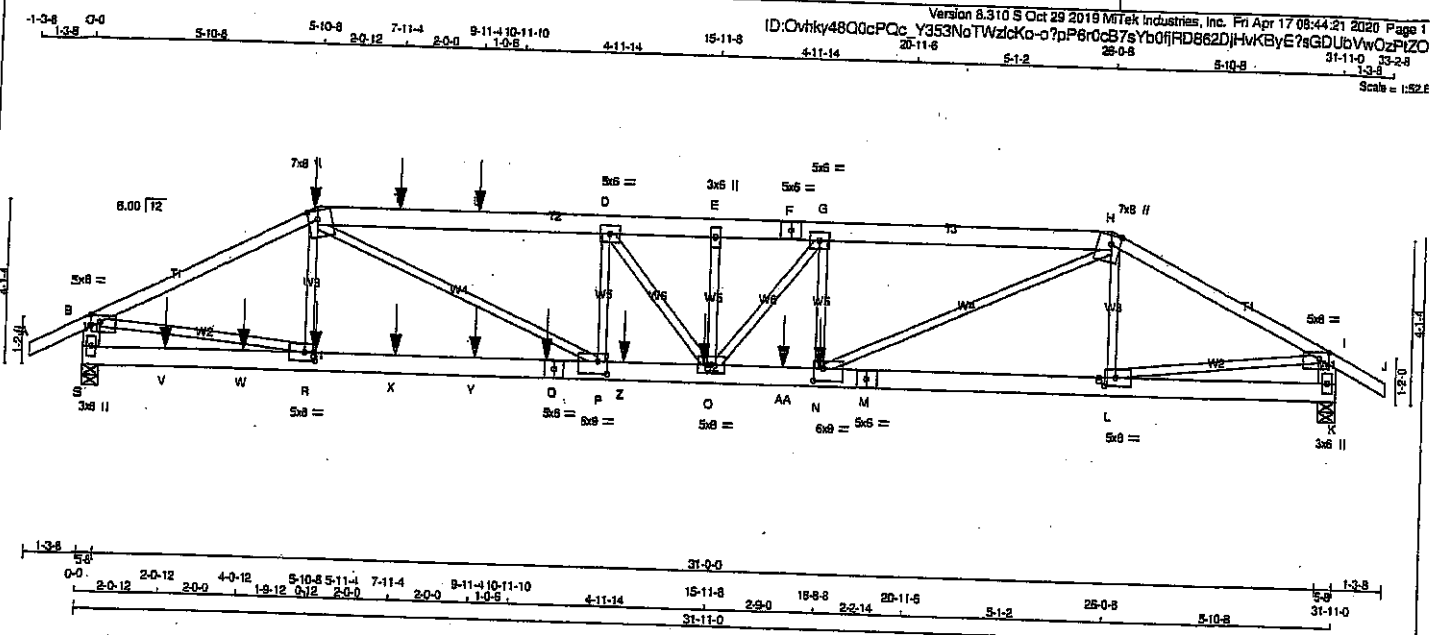
FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
H	25-0-8	-457	-457	---	FRONT	VERT	TOTAL	---	---
L	25-11-12	-26	-26	---	FRONT	VERT	TOTAL	---	---
M	15-11-12	-26	-26	---	FRONT	VERT	TOTAL	---	---
O	15-11-8	-26	-26	---	FRONT	VERT	TOTAL	---	---
Q	11-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	---
R	5-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	---
T	7-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	---
U	9-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	---
V	11-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	---
W	13-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	---
X	19-11-12	-110	-110	---	FRONT	VERT	TOTAL	---	---
Y	21-11-12	-110	-110	---	FRONT	VERT	TOTAL	---	---
Z	23-11-12	-110	-110	---	FRONT	VERT	TOTAL	---	---
AA	1-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	---
AB	3-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	---
AC	7-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	---
AD	9-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	---
AE	13-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	---
AF	17-11-12	-26	-26	---	FRONT	VERT	TOTAL	---	---
AG	21-11-12	-26	-26	---	FRONT	VERT	TOTAL	---	---
AH	23-11-12	-26	-26	---	FRONT	VERT	TOTAL	---	---
AI	27-11-12	-26	-26	---	FRONT	VERT	TOTAL	---	---
AJ	29-11-12	-26	-26	---	FRONT	VERT	TOTAL	---	---

CONNECTION REQUIREMENTS

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



JOB NAME 408165 Tamarack Roof Truss, Burlington	TRUSS NAME T21Z	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - F	2x6	DRY	No.2
F - H	2x6	DRY	No.2
H - J	2x4	DRY	No.2
J - L	2x6	DRY	No.2
L - M	2x6	DRY	No.2
M - K	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	SIDE(61.0)
H-J 1	12	TOP
C-F 2	12	SIDE(61.0)
F-H 2	12	TOP
S-B 2	12	TOP
K-I 2	12	TOP
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS		
S-Q 2	12	SIDE(183.1)
Q-M 2	12	SIDE(183.1)
M-K 2	12	TOP
WEBS: (0.122"x3") SPIRAL NAILS		
2x3 1	6	SIDE(300.5)
G-N 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 (tablets in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	MT20	5.0	8.0	2.00	3.25
C	TTWW-m	MT20	7.0	8.0	2.75	2.75
D	TMWV-t	MT20	5.0	8.0		
E	TMW-w	MT20	3.0	8.0		
F	TS-t	MT20	5.0	8.0		
G	TMWV-t	MT20	5.0	8.0		
H	TTWW-m	MT20	7.0	8.0	2.75	2.75
I	TMWV-p	MT20	5.0	8.0	2.00	3.25
J	BMWV-t	MT20	5.0	8.0	2.50	3.25
L	BS-t	MT20	5.0	8.0		
N	BMWV-t	MT20	6.0	9.0	3.75	3.00
O	BMWV-t	MT20	5.0	8.0		
P	BMWV-t	MT20	6.0	9.0	3.75	3.00
Q	BS-t	MT20	5.0	8.0		
R	BMWV-t	MT20	5.0	8.0	2.50	3.25
S	BMV1-p	MT20	3.0	8.0		

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

FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
GROSS REACTION	DOWN	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
JT 4651	0	4651	0	0	5-8	5-8	5-8
K 4115	0	4115	0	0	5-8	5-8	5-8

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS						
JT COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
S 3289	2197	0	0	0	1092	0	0
K 2901	1994	0	0	0	947	0	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.09 FT.

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

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

LOADING

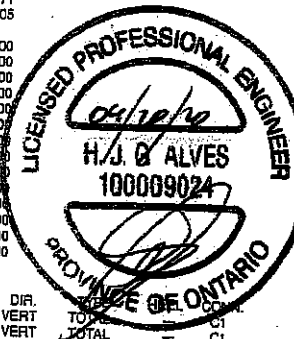
TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	FORCE (LBS)	MEMB.	FORCE (LBS)
FR-TO		FR-TO	
A-B	0: 28	R-C	-38 149
B-C	-7526 / 0	C-P	0: 5427
C-T	-11598 / 0	P-D	-1125 / 0
T-U	-11598 / 0	D-O	0: 489
U-D	-11598 / 0	O-E	-20 33
D-E	-11893 / 0	E-G	0: 148
E-F	-11893 / 0	G-H	-777 / 0
F-G	-11893 / 0	H-I	0: 6629
G-H	-11804 / 0	I-J	-909 / 0
H-I	-6538 / 0	J-K	0: 8807
I-J	0: 28	K-L	0: 5913
S-B	-4635 / 0		
K-I	-4078 / 0		

CHORDS		WEBS	
MEMB.	FORCE (LBS)	MEMB.	FORCE (LBS)
FR-TO		FR-TO	
A-B	-91.8 -91.8 0.07 (1)	R-C	-38 149
B-C	-91.8 -91.8 0.75 (1)	C-P	0: 5427
C-T	-91.8 -91.8 0.51 (1)	P-D	-1125 / 0
T-U	-91.8 -91.8 0.51 (1)	D-O	0: 489
U-D	-91.8 -91.8 0.51 (1)	O-E	-20 33
D-E	-91.8 -91.8 0.31 (1)	E-G	0: 148
E-F	-91.8 -91.8 0.29 (1)	G-H	-777 / 0
F-G	-91.8 -91.8 0.29 (1)	H-I	0: 6629
G-H	-91.8 -91.8 0.50 (1)	I-J	-909 / 0
H-I	-91.8 -91.8 0.65 (1)	J-K	0: 8807
I-J	-91.8 -91.8 0.07 (1)	K-L	0: 5913
S-B	-4635 / 0		
K-I	-4078 / 0		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LOC1	MAX.	FACE	DIR.	TOTAL
C	5-10-8	-380	-380	BACK	VERT	TOTAL
N	18-9-8	-1854	-1854	BACK	VERT	TOTAL
O	15-9-4	-459	-459	BACK	VERT	TOTAL
Q	11-9-4	-459	-459	BACK	VERT	TOTAL
R	5-11-4	-255	-255	BACK	VERT	TOTAL
T	7-11-4	-33	-33	BACK	VERT	TOTAL
U	9-11-4	-33	-33	BACK	VERT	TOTAL
V	2-0-12	-41	-41	BACK	VERT	TOTAL
W	4-0-12	-61	-61	BACK	VERT	TOTAL
X	7-11-4	-255	-255	BACK	VERT	TOTAL
Y	9-11-4	-255	-255	BACK	VERT	TOTAL



DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.06')
CALCULATED VERT. DEFL.(LL) = L/999 (0.29')
ALLOWABLE DEFL.(TL) = L/360 (1.06')
CALCULATED VERT. DEFL.(TL) = L/717 (0.53')

CSI: TC=0.75/1.00 (B-C:1), BC=0.94/1.00 (N-O:1), WB=0.84/1.00 (B-R:1), SSI=0.23/1.00 (P-R: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

AUTOSOLVEHEELS OFF

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PL) (PL)
MAX MIN MAX MIN
MT20 618 354 1867 788 1957 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (N) (INPUT = 0.90)
JSI METAL= 0.73 (N) (INPUT = 1.00)

Structural connection

JOB NAME 408165	TRUSS NAME T21Z	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

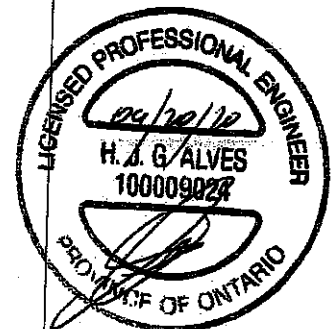
Version 8.310 5 Oct 28 2019 Mitek Industries, Inc. Fri Apr 17 08:44:21 2020 Page 2
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FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
AA	17-9-4	-459	-459	-	BACK	VERT	TOTAL	-	C1

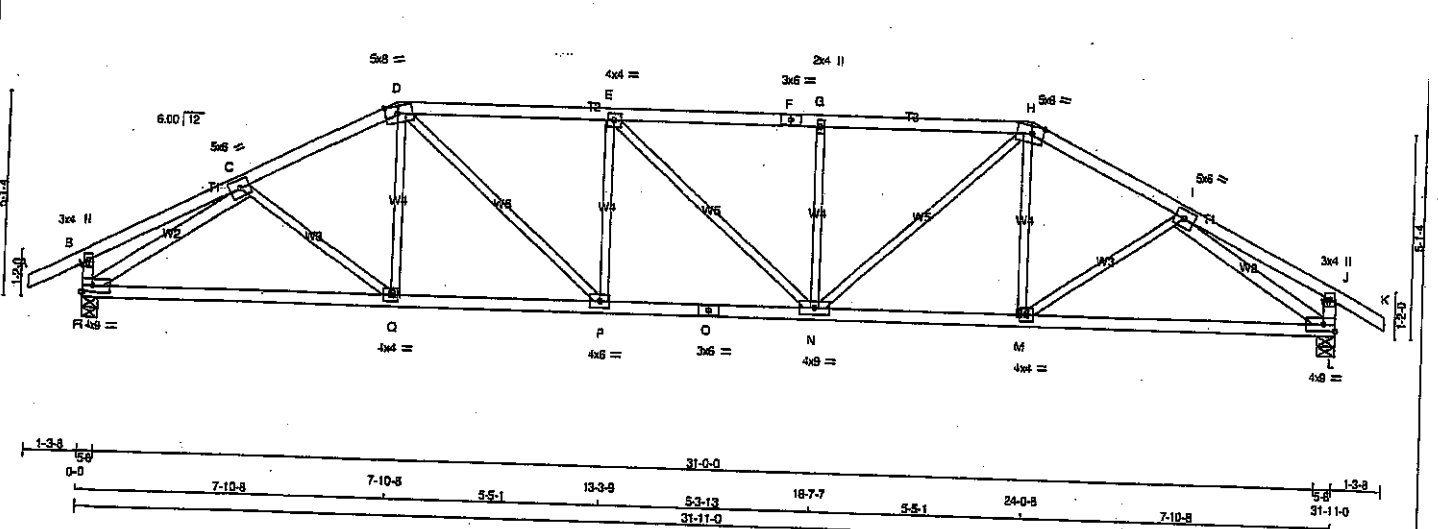
CONNECTION REQUIREMENTS

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



JOB NAME 408165	TRUSS NAME T22	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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 ID:1ebEM4C92xm94Zv?jkFPizmBR3-o?pP6r0cB7sYb0fRD862DjKBKHRE1RG0UvVwOzPZO
 1-3-8 2-4 4-8 4-8 3-10-0 7-10-8 5-5-1 13-3-9 5-3-13 18-7-7 5-5-1 24-0-8 3-10-8 27-10-8 4-8 31-1-8 32-8
 Scale = 1:32.6



LUMBER

N.L.G.A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV-p	MT20	3.0	4.0		
C	TMVW-t	MT20	5.0	8.0		
D	TTWW-m	MT20	5.0	8.0	2.25	3.50
E	TMVW-t	MT20	4.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TMVW-w	MT20	2.0	4.0		
H	TTWW-m	MT20	5.0	8.0	2.25	3.50
I	TMVW-t	MT20	5.0	6.0		
J	TMV-p	MT20	3.0	4.0		
L	BMVW-t	MT20	4.0	9.0		Edge
M	BMVW-t	MT20	4.0	4.0		
N	BMVW-w	MT20	4.0	9.0		
O	BS-t	MT20	3.0	6.0		
P	BMVW-t	MT20	4.0	6.0		
Q	BMVW-t	MT20	4.0	4.0		
R	BMVW-t	MT20	4.0	9.0		Edge

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

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

BEARINGS

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1330	886 / 0	0 / 0	0 / 0	0 / 0	444 / 0	0 / 0
L	1330	886 / 0	0 / 0	0 / 0	0 / 0	444 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.51 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD		MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE	
		FROM	TO			FROM	TO
A-B	0 / 28	-91.8	-91.8	10.00	C-Q	0 / 74	0.03 (4)
B-C	0 / 17	-91.8	-91.8	10.00	Q-D	0 / 133	0.04 (4)
C-D	-2489 / 0	-91.8	-91.8	4.12	D-P	0 / 833	0.21 (1)
D-E	-2891 / 0	-91.8	-91.8	3.61	P-E	-534 / 0	0.21 (1)
E-F	-2891 / 0	-91.8	-91.8	3.61	E-N	-2 / 0	0.00 (1)
F-G	-2891 / 0	-91.8	-91.8	3.61	N-G	-533 / 0	0.21 (1)
G-H	-2891 / 0	-91.8	-91.8	3.61	H-H	0 / 931	0.21 (1)
H-I	-2489 / 0	-91.8	-91.8	4.12	M-H	0 / 134	0.04 (4)
I-J	0 / 17	-91.8	-91.8	10.00	M-I	0 / 74	0.03 (4)
J-K	0 / 28	-91.8	-91.8	10.00	R-C	-2666 / 0	0.74 (1)
R-B	-266 / 0	0.0	0.0	0.03 (1)	I-L	-2667 / 0	0.74 (1)
L-J	-269 / 0	0.0	0.0	0.03 (1)			
R-Q	0 / 2167	-18.5	-18.5	0.49 (1)			
Q-P	0 / 2194	-18.5	-18.5	0.48 (1)			
P-O	0 / 2893	-18.5	-18.5	0.53 (1)			
O-N	0 / 2893	-18.5	-18.5	0.53 (1)			
N-M	0 / 2194	-18.5	-18.5	0.49 (1)			
M-L	0 / 2168	-18.5	-18.5	0.49 (1)			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF
 BOT CH. LL = 0.0 PSF
 DL = 0.0 PSF
 DL = 7.4 PSF
 TOTAL LOAD = 33.0 PSF

SPACING = 24.0 IN. O.C.

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.06")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
 ALLOWABLE DEFL.(TL) = L/360 (1.06")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.29")

CSI: TC=0.54/1.00 (D-E:1), BC=0.53/1.00 (N-P:1), WB=0.74/1.00 (L-L:1), SS=0.23/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

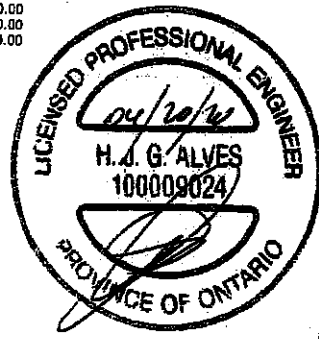
NAIL VALUES

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

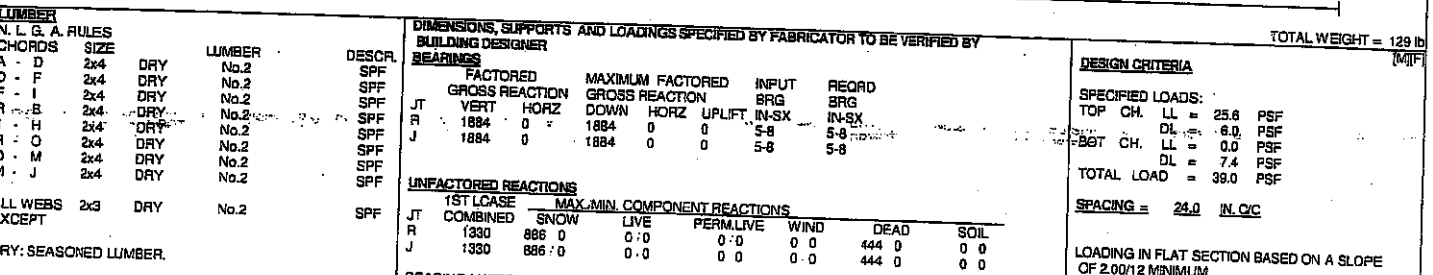
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.84 (O) (INPUT = 0.90)
 JSI METAL = 0.94 (O) (INPUT = 1.00)



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ID:1abEM4Ce92xm94Zv7jkFFPizmBR3-GBMoKB1EyR_ODAEvxfLbRGV_j8yX6PRkR2SgzPZi



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
<u>BEARINGS</u>									
		FACTORED		MAXIMUM FACTORED		INPUT	RECORD		
		GROSS REACTION		GROSS REACTION		BRG	BRG		
JT		VERT	HORIZ	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX	
R	1884	0	0	1884	0	0	5-8	5-8	
J	1884	0	0	1884	0	0	5-8	5-8	

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. OC

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.82 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

CHORDS			FACTORED			WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	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 / 28	-91.8	-91.8 0.12 (1)	10.00	Q-C	-301 / 0	0.07 (1)	
B-C	-2538 / 0	-91.8	-91.8 0.37 (1)	4.02	C-P	-254 / 0	0.18 (1)	
C-D	-2342 / 0	-91.8	-91.8 0.35 (1)	4.17	P-D	0 / 257	0.08 (1)	
D-E	-2493 / 0	-91.8	-91.8 0.54 (1)	3.82	D-N	0 / 575	0.13 (1)	
E-F	-2493 / 0	-91.8	-91.8 0.54 (1)	3.82	N-E	-685 / 0	0.40 (1)	
F-G	-2342 / 0	-91.8	-91.8 0.35 (1)	4.17	N-F	0 / 575	0.13 (1)	
G-H	-2538 / 0	-91.8	-91.8 0.37 (1)	4.02	L-F	0 / 257	0.06 (1)	
H-I	0 / 28	-91.8	-91.8 0.12 (1)	10.00	L-G	-254 / 0	0.16 (1)	
R-B	-1841 / 0	0.0	0.0 0.19 (1)	5.17	K-G	-301 / 0	0.07 (1)	
J-H	-1841 / 0	0.0	0.0 0.19 (1)	5.17	B-Q	0 / 2323	0.52 (1)	
					K-H	0 / 2323	0.52 (1)	
R-Q	0 / 0	-18.5	-18.5 0.10 (4)	10.00				
P-Q	0 / 2290	-18.5	-18.5 0.43 (1)	10.00				
P-O	0 / 2077	-18.5	-18.5 0.40 (1)	10.00				
O-N	0 / 2077	-18.5	-18.5 0.40 (1)	10.00				
N-M	0 / 2077	-18.5	-18.5 0.40 (1)	10.00				
M-L	0 / 2077	-18.5	-18.5 0.40 (1)	10.00				
L-K	0 / 2290	-18.5	-18.5 0.43 (1)	10.00				
K-J	0 / 0	-18.5	-18.5 0.10 (4)	10.00				

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018 , OBC 2012 , ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 085-14
- TPC 2011, TPC 2014

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

ALLOWABLE DEFL.(LL) = 1/960 (1.08")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.13")
ALLOWABLE DEFL.(TL) = 1/860 (1.06")
CALCULATED VERT. DEFL.(TL) = 1/999 (0.24")

CSI: TC=0.54/1.0 (D-E:1) , BC=0.43/1.0 (K-L:1) ,
WB=0.52/1.0 (H-K:1) , SS=0.27/1.0 (E-F:1)

DCL LUMBER=1.05 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

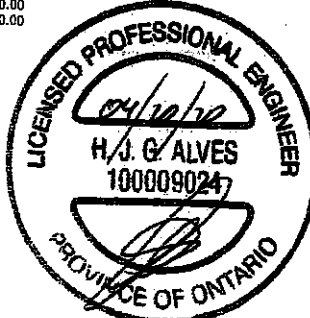
PLATE GRIP(DRY)		SHEAR		SECTION
(PSI)		(PLI)		(PLI)
MAX MIN	MAX MIN	MAX MIN		
MT20	818 354	1657 788	1967 1656	

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

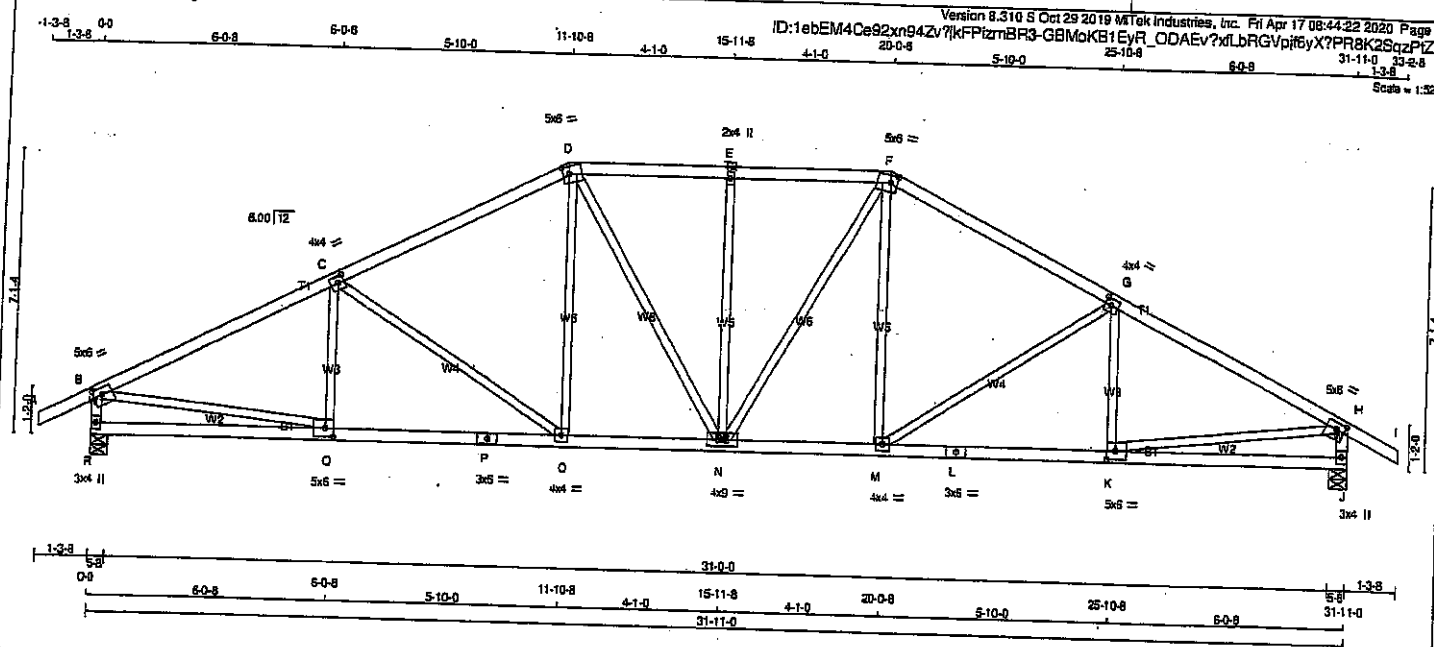
SI GRIP = 0.50 (B) (INPUT = 0.90)

SI METAL = 0.57 (B) (INPUT = 1.00)



Tamarack Roof Truss, Burlington

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Zv7JkFPizmBR3-GBMoKb1EyR_ODAEv?xLbRGVpif6yX?PR8K2SqpZiZ
5-10-0 25-10-8 6-0-8 31-11-0 33-2-8
1-3-8
Scale: 1:30



ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER

PLATES (table is in inches)

IT	TYPE	PLATES	W	LEN	Y	X
B	TTWVW-1	MT20	5.0	8.0	2.00	2.75
C	TTWVW-1	MT20	4.0	4.0	2.00	1.75
D	TTWVW-m	MT20	5.0	6.0	2.25	2.00
E	TTWVW-m	MT20	2.0	4.0		
F	TTWVW-m	MT20	5.0	6.0	2.25	2.00
G	TTWVW-1	MT20	4.0	4.0	2.00	1.75
H	TTWVW-1	MT20	5.0	6.0	2.00	2.75
J	BMV1+p	MT20	3.0	4.0		
K	BMWVW-1	MT20	5.0	6.0	2.50	2.50
L	BS-1	MT20	3.0	3.0		
M	BMWVW-1	MT20	4.0	4.0		
N	BMWVW-1	MT20	4.0	9.0		
O	BMWVW-1	MT20	4.0	4.0		
P	BS-1	MT20	3.0	5.0		
Q	BMWVW-1	MT20	5.0	6.0	2.50	2.50
R	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

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

UNFACTORED REACTIONS

1ST CASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
J	1330	886.0	0.0	0.0	0.0	444.0	0.0
R	1330	886.0	0.0	0.0	0.0	444.0	0.0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.79 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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MAX. FACTORED		FACTORED		MAX. FACTORED				
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO		FR-TO			
A-B	0/28	-91.8	-91.8	0.12 (1)	10.00	C-C	-212/29	0.08 (1)
B-C	-2578/0	-91.8	-91.8	0.55 (1)	3.79	C-Q	-480/0	0.46 (1)
C-D	-2188/0	-91.8	-91.8	0.49 (1)	4.11	C-D	0/362	0.08 (1)
D-E	-2068/0	-91.8	-91.8	0.24 (1)	4.49	D-N	0/296	0.07 (1)
E-F	-2068/0	-91.8	-91.8	0.24 (1)	4.49	N-E	-451/0	0.39 (1)
F-G	-2188/0	-91.8	-91.8	0.49 (1)	4.11	N-F	0/296	0.07 (1)
G-H	-2578/0	-91.8	-91.8	0.55 (1)	3.79	M-F	0/362	0.08 (1)
H-I	0/28	-91.8	-91.8	0.12 (1)	10.00	M-G	-480/0	0.46 (1)
R-B	-1836/0	0.0	0.0	0.19 (1)	5.18	K-C	-212/29	0.06 (1)
J-H	-1836/0	0.0	0.0	0.19 (1)	5.18	B-Q	0/2355	0.53 (1)
						K-H	0/2355	0.53 (1)
R-Q	0/0	-18.5	-18.5	0.15 (4)	10.00			
Q-P	0/2332	-18.5	-18.5	0.44 (1)	10.00			
P-Q	0/2332	-18.5	-18.5	0.44 (1)	10.00			
O-N	0/1935	-18.5	-18.5	0.37 (1)	10.00			
N-M	0/1935	-18.5	-18.5	0.37 (1)	10.00			
M-L	0/2332	-18.5	-18.5	0.44 (1)	10.00			
L-K	0/2332	-18.5	-18.5	0.44 (1)	10.00			
K-J	0/0	-18.5	-18.5	0.15 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")

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

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

COMPANION LIVE LOAD FACTOR = 1.00

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

PLATE	GRF(DRY)		SHEAR		SECTION	
	(PSI)		(PL)		(PL)	
	MAX	MIN	MAX	MIN	MAX	MIN
AT20	618	354	1667	788	1987	185

PLATE PLACEMENT TOL = 0.250 inches

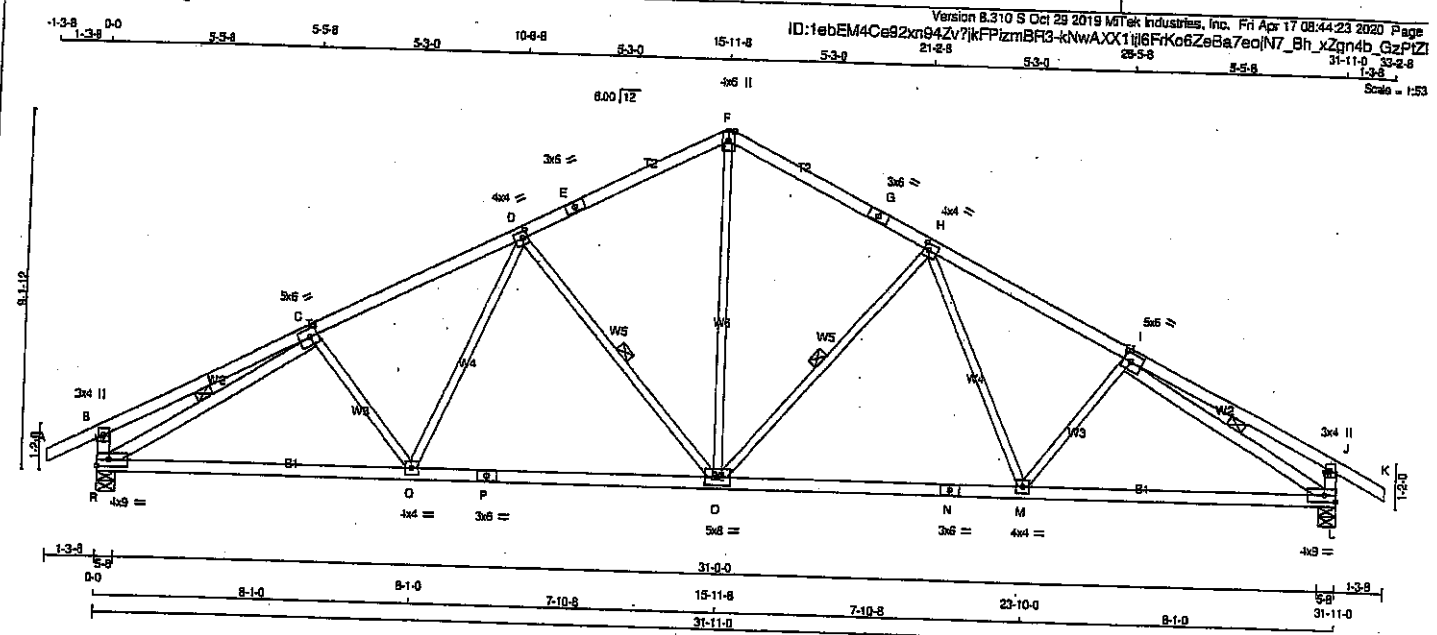
PLATE ROTATION TOL = 5.0 Deg.

SI GRIP= 0.88 (H) (INPUT = 0.90)
SI METAL= 0.74 (F) (INPUT = 1.00)

structural component ent

ALICE T. BOBBINS

JOB NAME 408165	TRUSS NAME T26	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			



LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				TOTAL WEIGHT = 8 X 133 = 1066 lb			
N. L. G. A. RULES				BEARINGS				DESIGN CRITERIA			
CHORDS	SIZE	LUMBER	DESCR.	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG	SPECIFIED LOADS:			
A - E	2x4	DRY	No.2	VERT	HORIZ	DOWN	UPLIFT	TOP CH. LL = 25.6 PSF			
E - F	2x4	DRY	No.2	1894	0	1894	0	DL = 8.0 PSF			
F - G	2x4	DRY	No.2	1894	0	1894	0	BOT CH. LL = 0.0 PSF			
G - H	2x4	DRY	No.2					DL = 7.4 PSF			
H - I	2x4	DRY	No.2					TOTAL LOAD = 39.0 PSF			
I - J	2x4	DRY	No.2					SPACING = 24.0 IN. C/C			
J - K	2x4	DRY	No.2					THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015			
K - L	2x4	DRY	No.2					THIS DESIGN COMPLIES WITH:			
L - M	2x4	DRY	No.2					- PART 9 OF NBC 2010, NBC 2012, ABC 2019			
M - N	2x4	DRY	No.2					- PART 9 OF NBC 2012 (2019 AMENDMENT)			
N - O	2x4	DRY	No.2					- CSA 086-09, CSA 086-14			
O - P	2x4	DRY	No.2					- TPIC 2011, TPIC 2014			
P - Q	2x4	DRY	No.2					(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			
Q - R	2x4	DRY	No.2					ALLOWABLE DEFL. (LL) = L/360 (1.06")			
R - S	2x4	DRY	No.2					CALCULATED VERT. DEFL. (LL) = 1/999 (0.11")			
S - T	2x4	DRY	No.2					ALLOWABLE DEFL. (TL) = L/360 (1.06")			
T - U	2x4	DRY	No.2					CALCULATED VERT. DEFL. (TL) = 1/999 (0.24")			
U - V	2x4	DRY	No.2					CSI: TC=0.37/1.00 (H-I), BC=0.51/1.00 (L-M), WB=0.55/1.00 (H-L), SS=0.20/1.00 (H-J)			
V - W	2x4	DRY	No.2					DOL LUMBER-1.00 NAIL-1.00 LS BEND-1.10 COMP-1.10 SHEAR-1.10 TENS-1.10			
W - X	2x4	DRY	No.2					COMPANION LIVE LOAD FACTOR = 1.00			
X - Y	2x4	DRY	No.2					AUTOSOLVE HEELS OFF			
Y - Z	2x4	DRY	No.2					TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.			
Z - AA	2x4	DRY	No.2					NAIL VALUES			
AA - AB	2x4	DRY	No.2					PLATE GRIP(DRY) SHEAR SECTION (PSI) (PL) (PL)			
AB - AC	2x4	DRY	No.2					MAX MIN MAX MIN MAX MIN			
AC - AD	2x4	DRY	No.2					MT20 618 354 1667 788 1967 1656			
AD - AE	2x4	DRY	No.2					PLATE PLACEMENT TOL = 0.250 inches			
AE - AF	2x4	DRY	No.2					PLATE ROTATION TOL = 5.0 Deg.			
AF - AG	2x4	DRY	No.2					JSI GRIP = 0.85 (I) (INPUT = 0.90)			
AG - AH	2x4	DRY	No.2					JSI METAL = 0.67 (I) (INPUT = 1.00)			

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMV+p	MT20	3.0	4.0		
C TMWV-t	MT20	5.0	8.0	2.50	2.50
D TMWV-t	MT20	4.0	4.0	2.00	1.50
E TS-t	MT20	3.0	6.0		
F TTW+p	MT20	4.0	6.0	Edge	
G TS-t	MT20	3.0	6.0		
H TMWV-t	MT20	4.0	4.0	2.00	1.50
I TMWV-t	MT20	5.0	8.0	2.50	2.50
J TMV+p	MT20	3.0	4.0		
L BMWV-t	MT20	4.0	9.0	Edge	
M BMWV-t	MT20	4.0	9.0		
N BS-t	MT20	3.0	6.0		
O BMWV-t	MT20	5.0	8.0		
P BS-t	MT20	3.0	6.0		
Q BMWV-t	MT20	4.0	4.0		
R BMWV-t	MT20	4.0	9.0	Edge	

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.11 FT.

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

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

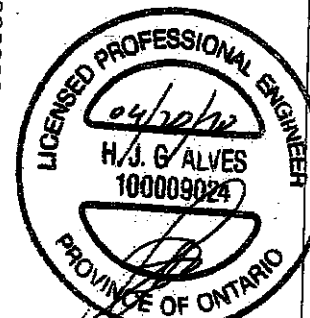
1 LATERAL BRACE(S) AT 1/2 LENGTH OF H-O, D-O, C-R, H-L.

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

LOADING

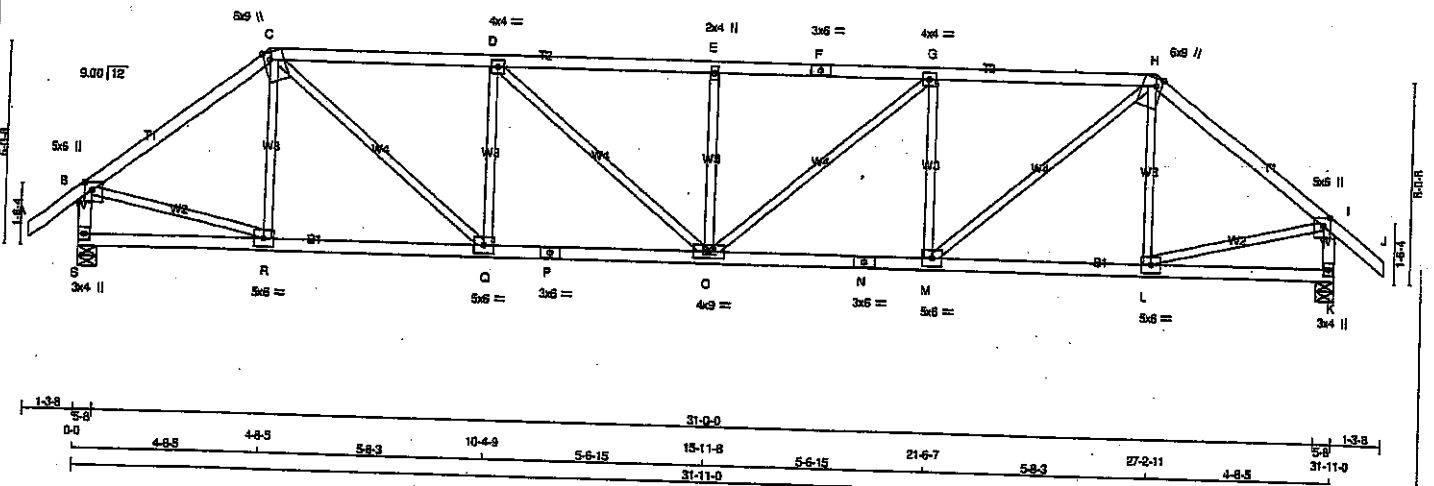
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. UNBRACED LENGTH (L)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (L)	CSF (LC)
FR-TO				FR-TO			
A-B	0 / 28	-91.8	-91.8 0.12 (1)	0-F	0 / 1211	0.27 (1)	
B-C	0 / 20	-91.8	-91.8 0.33 (1)	0-H	-701 / 0	0.32 (1)	
C-D	-2428 / 0	-91.8	-91.8 0.37 (1)	0-I	0 / 312	0.07 (1)	
D-E	-1808 / 0	-91.8	-91.8 0.34 (1)	0-J	-156 / 21	0.05 (1)	
E-F	-1808 / 0	-91.8	-91.8 0.34 (1)	0-K	-701 / 0	0.32 (1)	
F-G	-1808 / 0	-91.8	-91.8 0.34 (1)	0-L	0 / 312	0.07 (1)	
G-H	-1808 / 0	-91.8	-91.8 0.34 (1)	0-M	-156 / 21	0.05 (1)	
H-I	-2428 / 0	-91.8	-91.8 0.37 (1)	0-N	-2717 / 0	0.55 (1)	
I-J	0 / 20	-91.8	-91.8 0.33 (1)	0-O	-2717 / 0	0.55 (1)	
J-K	0 / 28	-91.8	-91.8 0.12 (1)	0-P			
K-L	-325 / 0	0.0	0.0 0.03 (1)	0-Q			
L-M	-325 / 0	0.0	0.0 0.03 (1)	0-R			
R-Q	0 / 2268	-18.5	-18.5 0.51 (1)	0-S			
Q-P	0 / 2051	-18.5	-18.5 0.48 (1)	0-T			
P-O	0 / 2051	-18.5	-18.5 0.48 (1)	0-U			
O-N	0 / 2051	-18.5	-18.5 0.48 (1)	0-V			
N-M	0 / 2051	-18.5	-18.5 0.48 (1)	0-W			
M-L	0 / 2268	-18.5	-18.5 0.51 (1)	0-X			



JOB NAME 408164	TRUSS NAME T27	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	CRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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 1-3-8 0-0 4-8-5 4-8-5 5-8-3 10-4-9 5-8-15 15-11-8 5-8-15 21-6-7 5-8-3 27-2-11 4-8-5 31-11-0 33-2-8
 Scale = 1:52



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 - J	2x4	DRY No.2	SPF
J - L	2x4	DRY No.2	SPF
L - K	2x4	DRY No.2	SPF
K - I	2x4	DRY No.2	SPF
I - P	2x4	DRY No.2	SPF
P - N	2x4	DRY No.2	SPF
N - K	2x4	DRY No.2	SPF
ALL WEBS	2x3	DRY No.2	SPF
EXCEPT			

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	0	0
S	HORIZ	UPLIFT	1886	1886
K	HORIZ	UPLIFT	1886	1886

UNFACTORED REACTIONS

	1ST LCASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
S	1331	887 / 0 0 / 0 0 / 0 0 / 0 444 / 0 0 / 0
K	1331	887 / 0 0 / 0 0 / 0 0 / 0 444 / 0 0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.42 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.

TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)		
FR-TO		FROM TO			FR-TO				
A-B	0 / 38	-91.8	-91.8	0.12 (1)	10.00	R-C	-266 / 0	0.10 (1)	
B-C	-1868 / 0	-91.8	-91.8	0.45 (1)	4.42	C-Q	0 / 1515	0.34 (1)	
C-D	-2664 / 0	-91.8	-91.8	0.61 (1)	3.65	Q-D	-868 / 0	0.32 (1)	
D-E	-3002 / 0	-91.8	-91.8	0.65 (1)	3.42	D-O	0 / 443	0.10 (1)	
E-F	-3002 / 0	-91.8	-91.8	0.65 (1)	3.42	O-E	-472 / 0	0.18 (1)	
F-G	-3002 / 0	-91.8	-91.8	0.65 (1)	3.42	G-G	0 / 443	0.10 (1)	
G-H	-2664 / 0	-91.8	-91.8	0.61 (1)	3.65	M-G	-868 / 0	0.32 (1)	
H-I	-1868 / 0	-91.8	-91.8	0.45 (1)	4.42	M-H	0 / 1515	0.34 (1)	
I-J	0 / 38	-91.8	-91.8	0.12 (1)	10.00	L-H	-266 / 0	0.10 (1)	
S-B	-1852 / 0	0.0	0.0	0.19 (1)	6.15	B-R	0 / 1552	0.35 (1)	
K-I	-1852 / 0	0.0	0.0	0.19 (1)	6.15	L-I	0 / 1552	0.35 (1)	
S-R	0 / 0	-18.5	-18.5	0.12 (4)	10.00				
R-Q	0 / 1500	-18.5	-18.5	0.31 (1)	10.00				
Q-P	0 / 2665	-18.5	-18.5	0.48 (1)	10.00				
P-O	0 / 2665	-18.5	-18.5	0.48 (1)	10.00				
O-N	0 / 2665	-18.5	-18.5	0.48 (1)	10.00				
N-M	0 / 2665	-18.5	-18.5	0.48 (1)	10.00				
M-L	0 / 1500	-18.5	-18.5	0.31 (1)	10.00				
L-K	0 / 0	-18.5	-18.5	0.12 (4)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN. OC

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 2015, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 085-14
- TPIC 2011, TPIC 2014

(55% OF 21.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/360$ (1.06")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.15")
ALLOWABLE DEFL. (TL) = $L/360$ (1.06")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.28")

CSI: TC=0.95/1.00 (D-E:1), BC=0.48/1.00 (O-Q:1), WB=0.35/1.00 (B-R:1), GS=0.24/1.00 (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 GRP (DRY) SHEAR SECTION (PSI) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 798 1987 1686

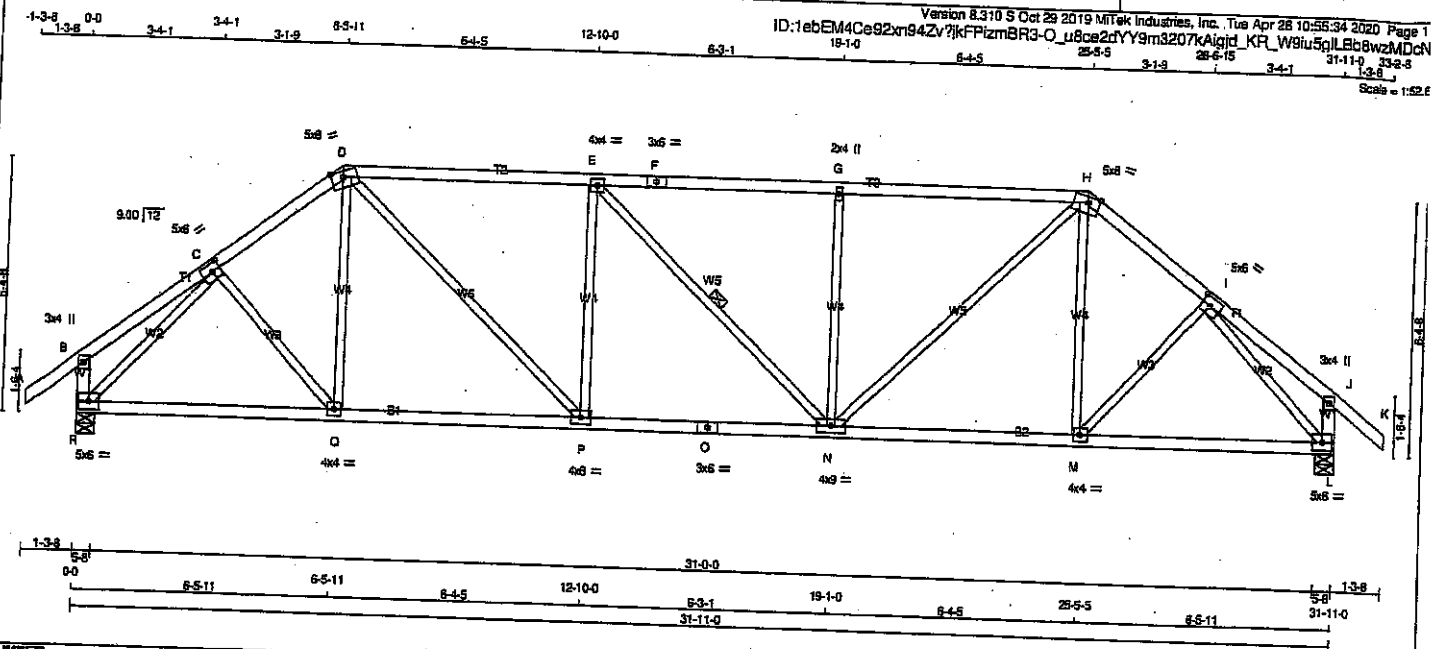
PLATE PLACEMENT TOL = 0.250 inches
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.80 (B) (INPUT = 0.50)
JSI METAL = 0.81 (P) (INPUT = 1.00)



Structural component only
DWG# T-2007733

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408164	T28	2	1	GREEN PARK HOMES		
Tamarack Roof Truss, Burlington						



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - K	2x4	DRY	No.2
R - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
R - O	2x4	DRY	No.2
O - L	2x4	DRY	No.2

ALL WEBS
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 TMWV-t	MT20	5.0	6.0	2.50	2.75
D TMWV-m	MT20	5.0	8.0	Edge	3.50
E TMWV-t	MT20	4.0	4.0		
F TS-t	MT20	3.0	8.0		
G TMW+w	MT20	2.0	4.0		
H TMWV-m	MT20	5.0	8.0	Edge	3.50
I TMW-t	MT20	5.0	6.0	2.50	2.75
J TMV+p	MT20	3.0	4.0		
L BMWV-t	MT20	5.0	6.0		
M BMWV-t	MT20	4.0	4.0		
N BMWV-t	MT20	4.0	4.0		
O BS-t	MT20	3.0	6.0		
P BMWV-t	MT20	4.0	6.0		
Q BMWV-t	MT20	4.0	4.0		
R BMWV-t	MT20	5.0	6.0		

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

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

BEARINGS

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	DOWN	IN-SX	IN-SX
R 1886	1886	5-8	5-8
L 1886	1886	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN COMPONENT REACTIONS	DEAD	SOIL
JT COMBINED	SNOW	LIVE	PERM.LIVE
R 1331	887/0	0/0	0/0
L 1331	887/0	0/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.75 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	FACTORED	WEBS
MEMB.	FORCE (LBS)	MAX. FACTORED
FR-TO	FROM TO	LENGTH FR-TO
A-B	0/38	10.00
B-C	0/18	10.00
C-D	-1910/0	4.71
D-E	-2286/0	3.78
E-F	-2284/0	3.79
F-G	-2284/0	3.79
G-H	-2284/0	3.80
H-I	-1910/0	4.71
I-J	0/18	10.00
J-K	0/38	10.00
K-B	-245/0	7.81
L-J	-245/0	7.81
R-Q	0/1420	10.00
Q-P	0/1510	10.00
P-O	0/2286	10.00
O-N	0/2286	10.00
N-M	0/1511	10.00
M-L	0/1421	10.00

TOTAL WEIGHT = 2 X 137 = 274 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.8 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 33.0 PSF

SPACING = 24.0 IN. CC

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

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 31.3 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.05")
CALCULATED VERT. DEFL.(LL) = L/899 (0.10")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/899 (0.21")

CS: TC=0.69/1.00 (D-E:1), BC=0.43/1.00 (N-P:1), WB=0.79/1.00 (L-I:1), SS=0.27/1.00 (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
MT20 618 354 1987 798 1987 1655

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

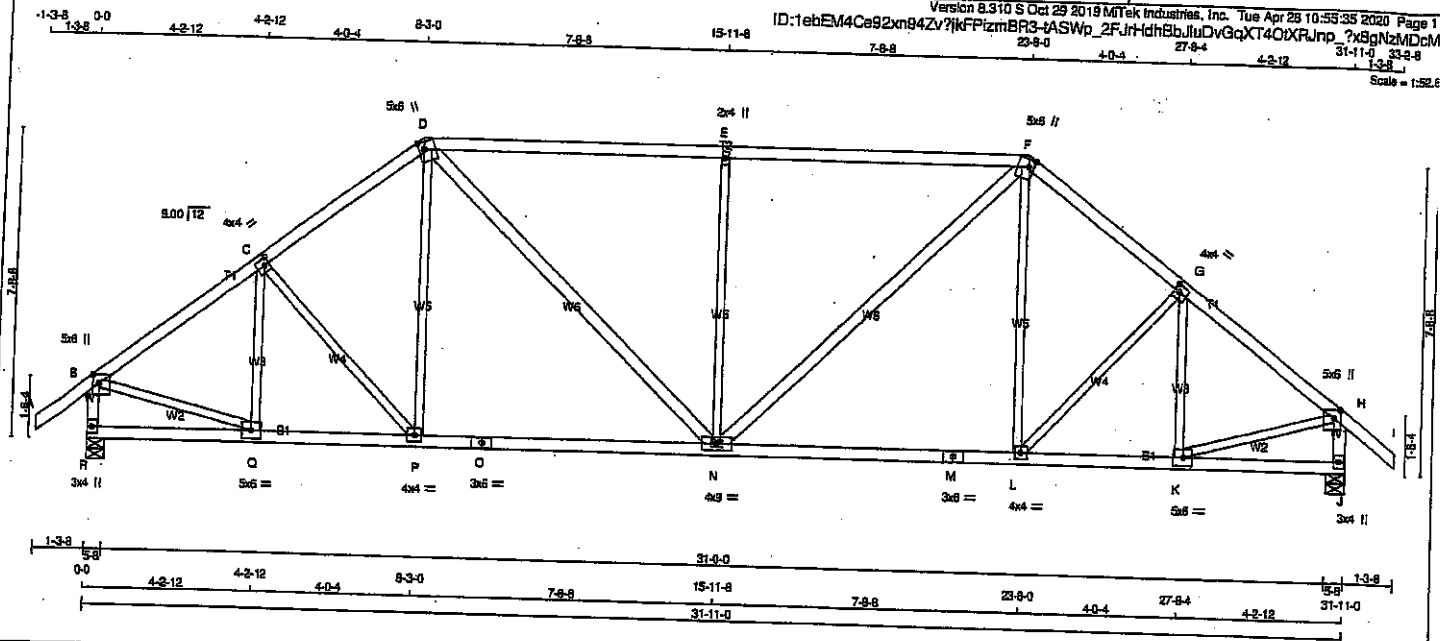
JSI GRIP = 0.87 (L) (INPUT = 0.90)
JSI METAL = 0.76 (C) (INPUT = 1.00)



Structural component only
DWG# T-2007734

JOB NAME 408164	TRUSS NAME T29	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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 31-11-0 33-2-8 1-3-8
 Scale = 1:50.0



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

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	5.0	8.0	2.50	2.00
C TMVW-t	MT20	4.0	4.0	2.00	1.50
D TTWW+m	MT20	5.0	8.0	2.25	1.50
E TMVW+w	MT20	2.0	4.0		
F TTWW+m	MT20	5.0	8.0	2.25	1.50
G TMVW-t	MT20	4.0	4.0	2.00	1.50
H TMVW+p	MT20	5.0	8.0	2.50	2.00
J BMVt+p	MT20	3.0	4.0		
K BMVW-t	MT20	5.0	8.0		
L BMVW-t	MT20	4.0	4.0		
M BS-t	MT20	3.0	8.0		
N BMVW-t	MT20	4.0	4.0		
O BS-t	MT20	3.0	8.0		
P BMVW-t	MT20	4.0	4.0		
Q BMVW-t	MT20	5.0	8.0		
R BMVt+p	MT20	3.0	4.0		

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	RECD
JT	VERT	GROSS REACTION	DOWN	BRG	BRG
R	1886	0	1886	0	5-8
J	1886	0	1886	0	5-8

UNFACTORED REACTIONS

1ST CASE		MAX/MIN	COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1331	887 / 0	0 / 0	0 / 0	0 / 0	444 / 0	0 / 0
J	1331	887 / 0	0 / 0	0 / 0	0 / 0	444 / 0	0 / 0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0 / 38	A-B	-91.8
B-C	-1877 / 0	B-C	-91.8
C-D	-1858 / 0	C-D	-91.8
D-E	-1985 / 0	D-E	-91.8
E-F	-1985 / 0	E-F	-91.8
F-G	-1858 / 0	F-G	-91.8
G-H	-1877 / 0	G-H	-91.8
H-I	0 / 38	H-I	-91.8
I-J	-1849 / 0	I-J	-91.8
J-K	-1849 / 0	J-K	-91.8
K-L	0 / 0	K-L	-18.5
L-M	0 / 1522	L-M	-18.5
M-N	0 / 1465	M-N	-18.5
N-O	0 / 1465	N-O	-18.5
O-P	0 / 1465	O-P	-18.5
P-Q	0 / 1465	P-Q	-18.5
Q-R	0 / 1522	Q-R	-18.5
R-S	0 / 0	R-S	-18.5

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF
 DL = 6.0 PSF
 BOT. CH. LL = 0.0 PSF
 DL = 0.0 PSF
 TOTAL LOAD = 35.0 PSF

SPACING = 24.0 IN. CC

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.06")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
 ALLOWABLE DEFL.(TL) = L/360 (1.06")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.17")

CSI: TO=0.82/1.00 (D-E:1), SC=0.38/1.00 (N-P:1), WB=0.96/1.00 (E-N:1), SSI=0.34/1.00 (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 618 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

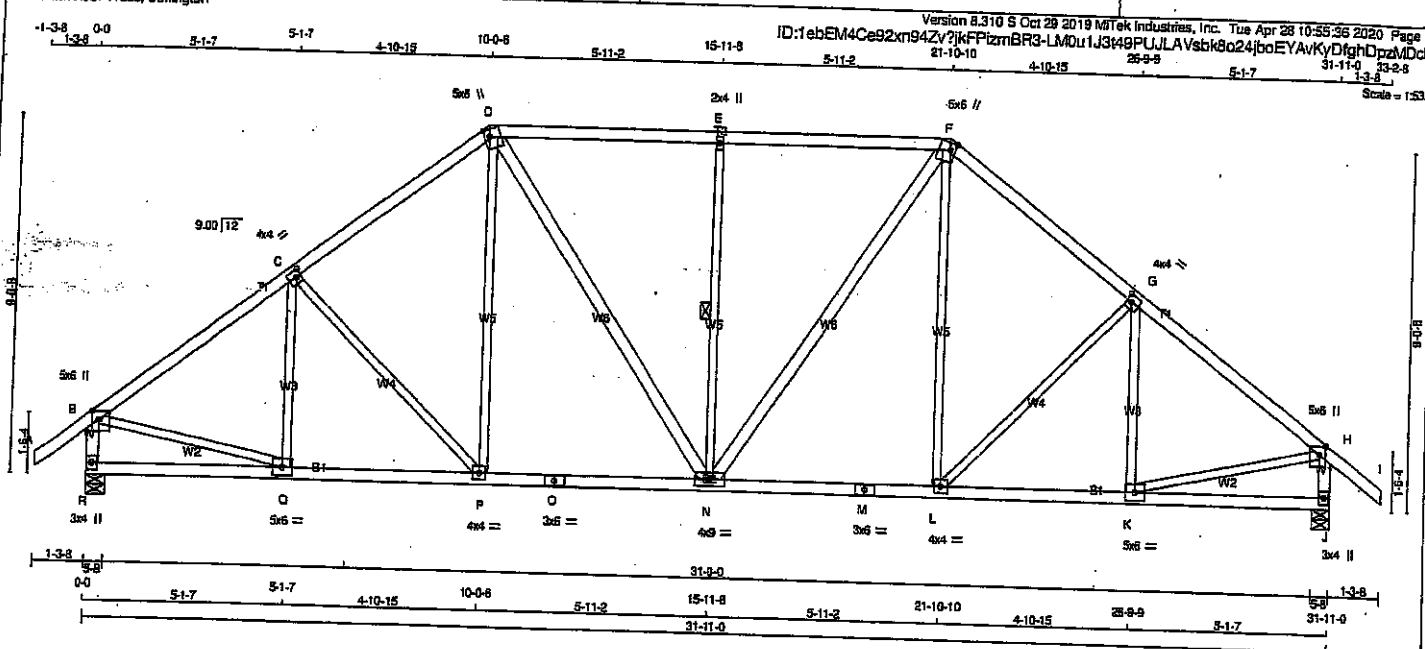
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.90 (B) (INPUT = 0.90)
 JSI METAL = 0.46 (C) (INPUT = 1.00)



Structural component only
 DWG# T-2007735

JOB NAME 408164	TRUSS NAME T30	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN Y	X
B	TMWV-p	MT20	5.0	6.0	2.50 2.00
C	TMWV-l	MT20	4.0	4.0	2.00 1.50
D	TMWV-h	MT20	5.0	6.0	2.25 1.50
E	TMWV-w	MT20	2.0	4.0	
F	TMWV-m	MT20	5.0	6.0	2.25 1.50
G	TMWV-l	MT20	4.0	4.0	2.00 1.50
H	TMWV-p	MT20	5.0	6.0	2.50 2.00
J	BMV1-p	MT20	3.0	4.0	
K	BMWV-l	MT20	5.0	6.0	
L	BMWV-l	MT20	4.0	4.0	
M	BS-l	MT20	3.0	5.0	
N	BMWV-l	MT20	4.0	9.0	
O	BS-l	MT20	3.0	6.0	
P	BMWV-l	MT20	4.0	4.0	
Q	BMWV-l	MT20	5.0	6.0	
R	BMV1-p	MT20	3.0	4.0	

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	R	VERT	HORZ	UPLIFT	IN-SX
JT	R	1886	0	1886	0
JT	R	1886	0	1886	0

UNFACTORED REACTIONS

JT	R	1ST CASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	R	1331	887 / 0	0 / 0	0 / 0	0 / 0	0 / 0	444 / 0	0 / 0
JT	R	1331	887 / 0	0 / 0	0 / 0	0 / 0	0 / 0	444 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.52 FT.

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

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)
MEMB.	FR-TO	FORCE (LBS)	FROM	TO	CS (LC)	MEMB.	FR-TO
A-B	0 / 38	-91.8	-91.8	0.12 (1)	10.00	C-C	-286 / 0
B-C	-1823 / 0	-91.8	-91.8	0.36 (1)	4.52	C-P	-249 / 0
C-D	-1772 / 0	-91.8	-91.8	0.34 (1)	4.88	P-D	0 / 277
D-E	-1855 / 0	-91.8	-91.8	0.46 (1)	4.83	D-N	0 / 469
E-F	-1855 / 0	-91.8	-91.8	0.46 (1)	4.83	N-E	-666 / 0
F-G	-1772 / 0	-91.8	-91.8	0.34 (1)	4.88	E-F	0 / 469
G-H	-1923 / 0	-91.8	-91.8	0.36 (1)	4.52	L-F	0 / 277
H-I	0 / 38	-91.8	-91.8	0.12 (1)	10.00	L-G	-249 / 0
R-B	-1845 / 0	0.0	0.0	0.19 (1)	6.16	K-G	-286 / 0
J-H	-1845 / 0	0.0	0.0	0.19 (1)	6.16	B-Q	0 / 1806
R-Q	0 / 0	-18.5	-18.5	0.10 (4)	10.00	K-H	0 / 1806
Q-P	0 / 1564	-18.5	-18.5	0.31 (1)	10.00		
P-O	0 / 1391	-18.5	-18.5	0.29 (1)	10.00		
O-N	0 / 1391	-18.5	-18.5	0.29 (1)	10.00		
N-M	0 / 1391	-18.5	-18.5	0.29 (1)	10.00		
M-L	0 / 1391	-18.5	-18.5	0.29 (1)	10.00		
L-K	0 / 1584	-18.5	-18.5	0.31 (1)	10.00		
K-J	0 / 0	-18.5	-18.5	0.10 (4)	10.00		

TOTAL WEIGHT = 2 X 156 = 311 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 25.6 PSF
DL	= 6.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 38.0 PSF

SPACING = 24.0 IN CC

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.05")

CALCULATED VERT. DEFL.(LL) = L/999 (0.07")

ALLOWABLE DEFL.(TL) = L/360 (1.05")

CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CS: TG=0.46/1.00 (E-F:1), BC=0.31/1.00 (P-Q:1), WB=0.36/1.00 (B-Q:1), SS=0.26/1.00 (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 (PL)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1657 783
	1937	1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

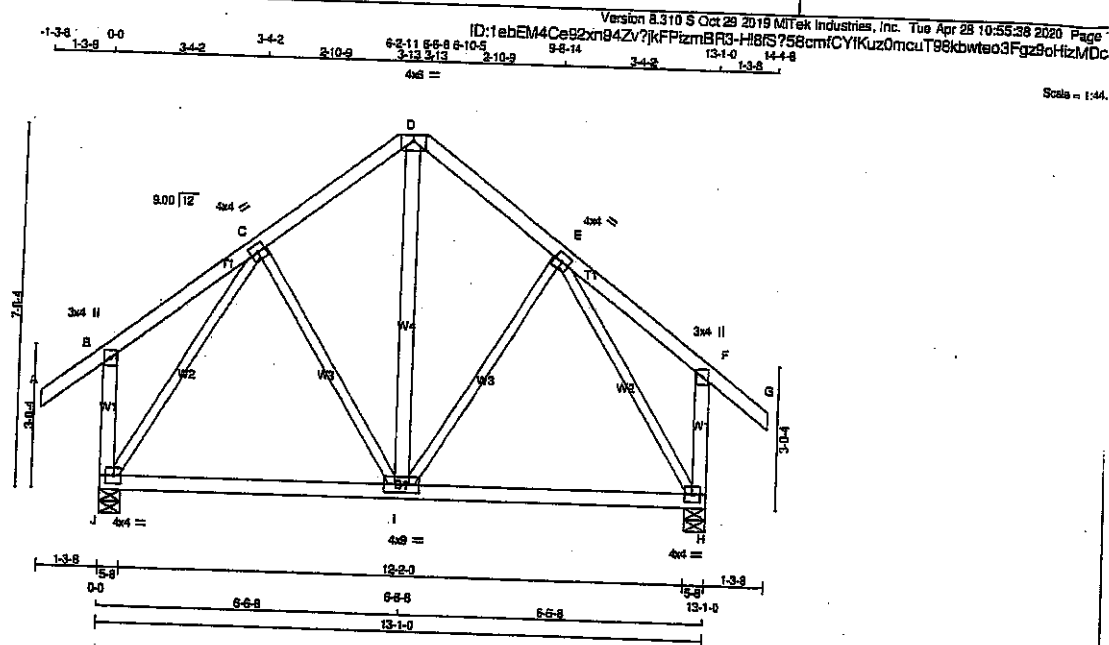
JSI GRIP= 0.89 (B) (INPUT = 0.90)

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



Structural component only
DWG# T-2007736

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408164	T32	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF	
D - G	2x4	DRY	No.2	SPF	
J - B	2x4	DRY	No.2	SPF	
H - F	2x4	DRY	No.2	SPF	
J - H	2x4	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
EXCEPT	I - 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			
C	TMVW+m	MT20	4.0	4.0			
D	TMVW+m	MT20	4.0	5.0	Edge		
E	TMVW+m	MT20	4.0	4.0			
F	TMV+p	MT20	3.0	4.0			
H	BMVW+1	MT20	4.0	4.0			
I	BMVW+1	MT20	4.0	9.0			
J	BMVW+1	MT20	4.0	4.0			

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

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

BEARINGS	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	RECORD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
JT	848	0	848	0	5-8	5-8
H	848	0	848	0	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
JT	597	405 / 0	0 / 0	0 / 0	0 / 0	192 / 0
H	597	405 / 0	0 / 0	0 / 0	0 / 0	192 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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. CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 38	-91.8	-91.8	10.00	I-D	0 / 293	0.04 (1)
B-C	0 / 21	-91.8	-91.8	10.00	C-I	-81 / 19	0.04 (1)
C-D	-424 / 0	-91.8	-91.8	10.00	I-E	-81 / 19	0.04 (1)
D-E	-424 / 0	-91.8	-91.8	10.00	E-C	-663 / 0	0.41 (1)
E-F	0 / 21	-91.8	-91.8	10.00	E-H	-663 / 0	0.41 (1)
F-G	0 / 38	-91.8	-91.8	10.00			
J-B	-242 / 0	0.0	0.0	0.04 (1)			
H-F	-242 / 0	0.0	0.0	0.04 (1)			
J-I	0 / 356	-18.5	-18.5	0.25 (4)			
I-H	0 / 356	-18.5	-18.5	0.25 (4)			

TOTAL WEIGHT = 70 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6	PSF
DL	= 5.0	PSF
BOT. CH.	LL = 0.0	PSF
DL	= 7.4	PSF
TOTAL LOAD	= 39.0	PSF

SPACING = 25.0 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 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(L) = L/360 (0.44")
CALCULATED VERT. DEFL.(L) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.44")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CS: TC=0.16/1.00 (E-F:1), EC=0.26/1.00 (H-I:4), WB=0.41/1.00 (C-J:1), SS=0.12/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

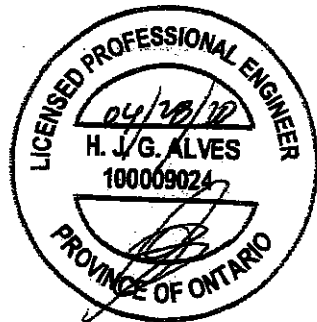
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PL)
MT20	618	354	1667 788 1387 1656

PLATE PLACEMENT TOL. = 0.250 inches

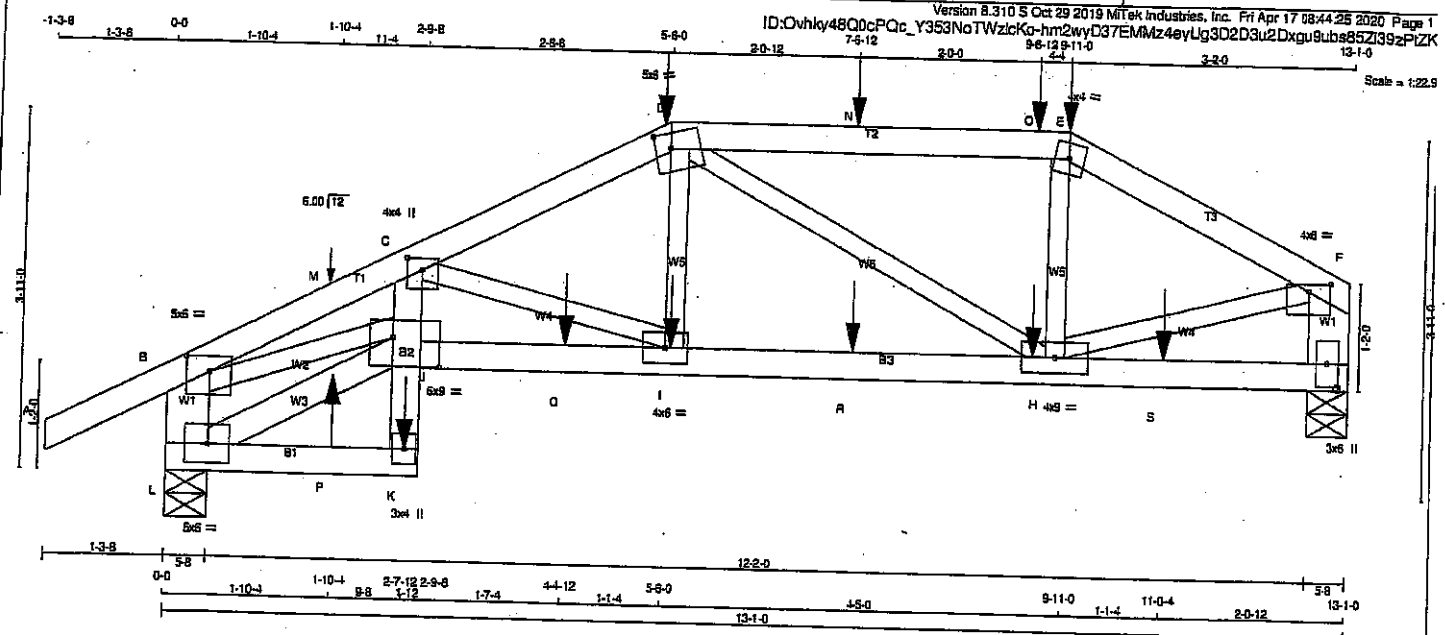
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.77 (C) (INPUT = 0.90)
JSI METAL= 0.23 (C) (INPUT = 1.00)



Structural component only
DWG# T-2007738

JOB NAME 408165	TRUSS NAME T33S	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



LUMBER			
N.L.G.A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
F - G	2x6	DRY	No.2
G - H	2x4	DRY	No.2
H - I	2x4	DRY	No.2
I - J	2x4	DRY	No.2
J - K	2x4	DRY	No.2
K - L	2x4	DRY	No.2
L - M	2x4	DRY	No.2
M - N	2x4	DRY	No.2
N - O	2x4	DRY	No.2
O - P	2x4	DRY	No.2
P - Q	2x4	DRY	No.2
Q - R	2x4	DRY	No.2
R - S	2x4	DRY	No.2
S - T	2x4	DRY	No.2
T - U	2x4	DRY	No.2
U - V	2x4	DRY	No.2
V - W	2x4	DRY	No.2
W - X	2x4	DRY	No.2
X - Y	2x4	DRY	No.2
Y - Z	2x4	DRY	No.2
Z - A	2x4	DRY	No.2

PLATES (table is in inches)			
JT	TYPE	PLATES	W LEN Y X
B	TMVW-p	MT20	5.0 5.0 2.00 3.00
C	TMVW-p	MT20	4.0 4.0 1.50 2.00
D	TMVW-m	MT20	5.0 5.0 2.00 2.00
E	TMVW-m	MT20	4.0 4.0
F	TMVW-p	MT20	4.0 5.0 1.00 3.00
G	BMV1-p	MT20	3.0 5.0
H	BMVWV-1	MT20	4.0 9.0
I	BMVW-1	MT20	4.0 6.0
J	BMVWV-1	MT20	5.0 9.0 3.75 6.00
K	BMV-p	MT20	3.0 4.0
L	BMVW-1	MT20	5.0 6.0

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER							
BEARINGS				UNFACTORED REACTIONS			
FACTORED	GROSS REACTION	MAXIMUM FACTORED	INPUT	REQD	FACTORED	GROSS REACTION	MAXIMUM FACTORED
JT	VERT	HORZ	DOWN	UP	JT	VERT	HORZ
G	1008	0	1008	0	G	711	480
L	1158	0	1158	0	L	814	580

UNFACTORED REACTIONS							
1ST CASE	MAX. MIN. COMPONENT REACTIONS	2ND CASE	MAX. MIN. COMPONENT REACTIONS	3RD CASE	MAX. MIN. COMPONENT REACTIONS	4TH CASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
G	711	480	0	0	0	231	0
L	814	580	0	0	0	254	0

DESIGN CRITERIA	
SPECIFIED LOADS:	
TOP CH.	LL = 25.6 PSF
BDT CH.	DL = 8.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 39.0 PSF
SPACING = 24.0 IN. C/C	

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.	
ALLOWABLE DEFL. (LL) =	L/380 (0.44")
CALCULATED VERT. DEFL. (LL) =	L/999 (0.05")
ALLOWABLE DEFL. (TL) =	L/380 (0.44")
CALCULATED VERT. DEFL. (TL) =	L/999 (0.10")
CSI: TC=0.44/1.00 (D-E:1), BC=0.43/1.00 (I-J:1), WB=0.54/1.00 (B-J:1), SS=0.22/1.00 (D-E:1)	
DCL 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	

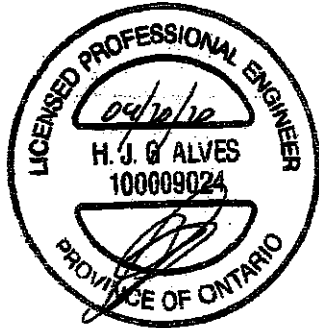
NAIL VALUES	
PLATE GRIP (DRY)	SHEAR SECTION
(PS)	(PL)
MAX MIN	MAX MIN
MT20	618 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.87 (J) (INPUT = 0.80)

JSI METAL = 0.49 (B) (INPUT = 1.00)



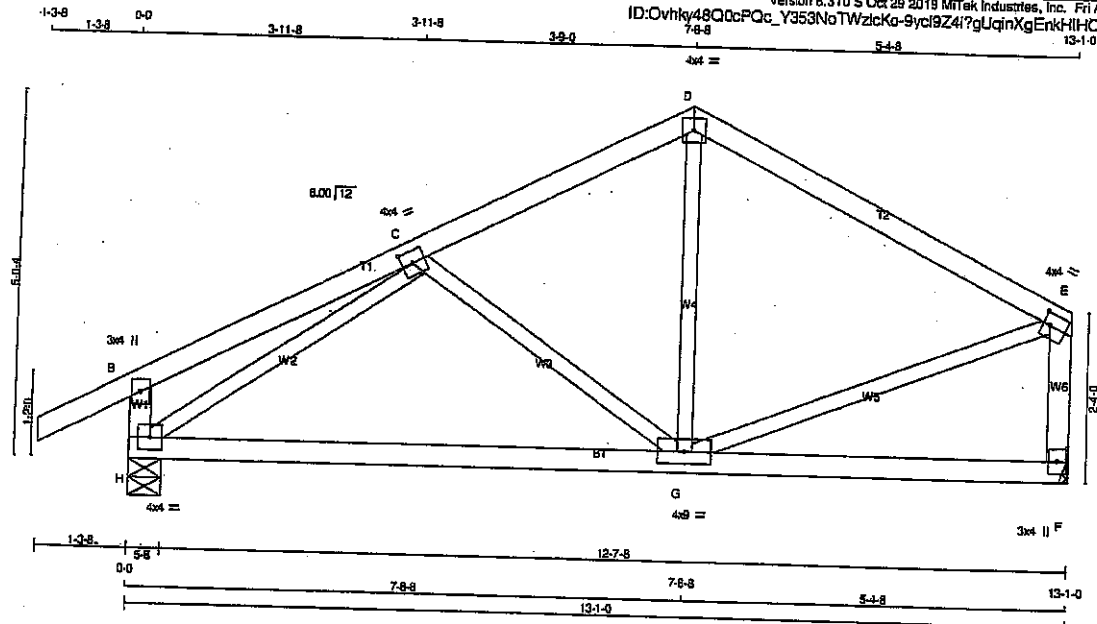
FACTORED CONCENTRATED LOADS (LBS)							
JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE
D	5-6-0	-178	-178	-	FRONT	VERT	TOTAL
E	9-11-0	-154	-154	-	FRONT	VERT	TOTAL
F	5-6-12	-7	-7	-	FRONT	VERT	TOTAL
G	5-6-12	-7	-7	-	FRONT	VERT	TOTAL
H	2-7-12	-184	-184	-	FRONT	VERT	TOTAL
I	1-10-4	1	1	104	FRONT	VERT	TOTAL
J	7-6-12	-17	-17	-	FRONT	VERT	TOTAL
K	9-5-12	-47	-47	-	FRONT	VERT	TOTAL
L	1-10-4	7	7	12	FRONT	VERT	TOTAL
M	4-4-12	-3	-3	-	FRONT	VERT	TOTAL
N	7-6-12	-7	-7	-	FRONT	VERT	TOTAL
O	11-0-4	-3	-3	-	FRONT	VERT	TOTAL

CONNECTION REQUIREMENTS

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

JOB NAME 408165	TRUSS NAME T34	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1/28.5

LUMBER

N. L. & A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - E	2x4	DRY	No.2	SPF
H - B	2x4	DRY	No.2	SPF
F - E	2x4	DRY	No.2	SPF
H - F	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-4	MT20	4.0	4.0	2.00	1.75
D	TTW+p	MT20	4.0	4.0		
E	TMVW-4	MT20	4.0	4.0	2.00	1.25
F	BMV1+p	MT20	3.0	4.0		
G	BMVWVW-4	MT20	4.0	9.0		
H	BMVW1-4	MT20	4.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
F	721	721	0	0
H	846	846	0	0

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

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	MAX. SNOW	MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	510	335	0	0	0	175	0
H	586	404	0	0	0	192	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)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO				
A-B	0.28	-91.8	0.00	0.00
B-C	0.16	-91.8	0.00	0.00
C-D	-584	-91.8	0.00	0.00
D-E	-566	-91.8	0.00	0.00
H-B	-262	0.0	0.00	0.00
F-E	-680	0.0	0.00	0.00
H-G	0.728	-18.5	0.00	0.00
G-F	0.0	-18.5	0.00	0.00

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

(56 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.44")
 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=0.34/1.00 (D-E:1), BC=0.30/1.00 (G-H:4), WB=0.33/1.00 (C-H:1), SSI=0.17/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

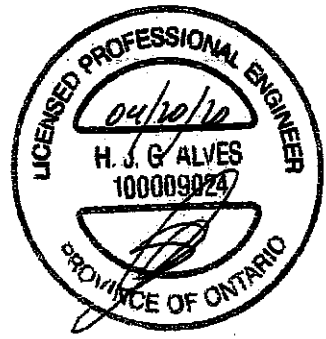
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches
 PLATE ROTATION TOL = 5.0 Deg.

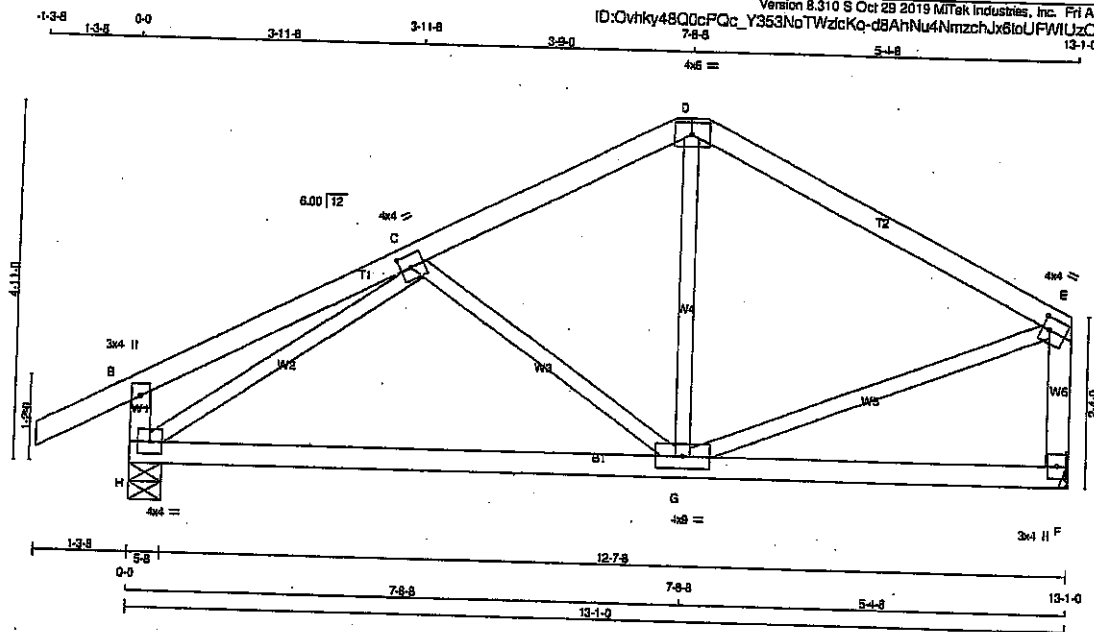
JSI GRIP = 0.86 (E) (INPUT = 0.90)
 JSI METAL = 0.28 (C) (INPUT = 1.00)



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408165	T34CP	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:28.5



LUMBER

N.L.G.A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - E	2x4	DRY	No.2	SPF
H - B	2x4	DRY	No.2	SPF
F - E	2x4	DRY	No.2	SPF
H - F	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	TMWW-t	MT20	4.0	4.0	2.00	1.75
D	TTW-p	MT20	4.0	6.0		
E	TMWW-t	MT20	4.0	4.0	2.00	1.25
F	BMV1+p	MT20	3.0	4.0		
G	BMWW-t	MT20	4.0	9.0		
H	BMV1-t	MT20	4.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
F	VERT 721	DOWN 721	0	0
H	HORZ 846	HORZ 846	0	0

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	COMBINED	510	335 / 0	0 / 0	0 / 0	0 / 0	175 / 0	0 / 0
H	COMBINED	598	404 / 0	0 / 0	0 / 0	0 / 0	192 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC2)	MAX. FACTORED VERT. LOAD (LC3)	MAX. FACTORED VERT. LOAD (LC4)	MAX. FACTORED VERT. LOAD (LC5)	MAX. FACTORED VERT. LOAD (LC6)	MAX. FACTORED VERT. LOAD (LC7)	MAX. FACTORED VERT. LOAD (LC8)	MAX. FACTORED VERT. LOAD (LC9)	MAX. FACTORED VERT. LOAD (LC10)
FR-TO													
A-B		0 / 28	-91.8	-91.8	0.12 (1)	10.00							
B-C		0 / 18	-91.8	-91.8	0.21 (1)	10.00							
C-D		-584 / 0	-91.8	-91.8	0.17 (1)	6.25							
D-E		-588 / 0	-91.8	-91.8	0.34 (1)	6.25							
H-B		-262 / 0	0.0	0.0	0.03 (1)	7.81							
F-E		-880 / 0	0.0	0.0	0.09 (1)	7.81							
H-G		0 / 728	-18.5	-18.5	0.30 (4)	10.00							
G-F		0 / 0	-18.5	-18.5	0.25 (4)	10.00							

TOTAL WEIGHT = 52 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 25.6 PSF
DL	= 5.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN. O/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL. (LL) = L/360 (0.44")
CALCULATED VERT. DEFL. (LL) = L/999 (0.01")
ALLOWABLE DEFL. (TL) = L/360 (0.44")
CALCULATED VERT. DEFL. (TL) = L/998 (0.10")

CSI: TC=0.34/1.00 (D-E-1), BC=0.30/1.00 (G-H-4),
WB=0.33/1.00 (C-H-1), SS=0.17/1.00 (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

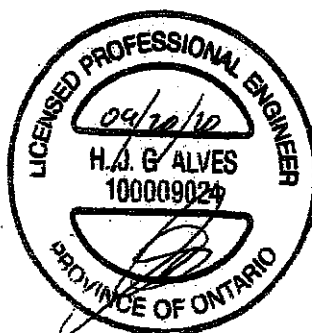
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

PLATE	GRIP (DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 788	1587 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.86 (E) (INPUT = 0.90)
JSI METAL = 0.28 (C) (INPUT = 1.00)

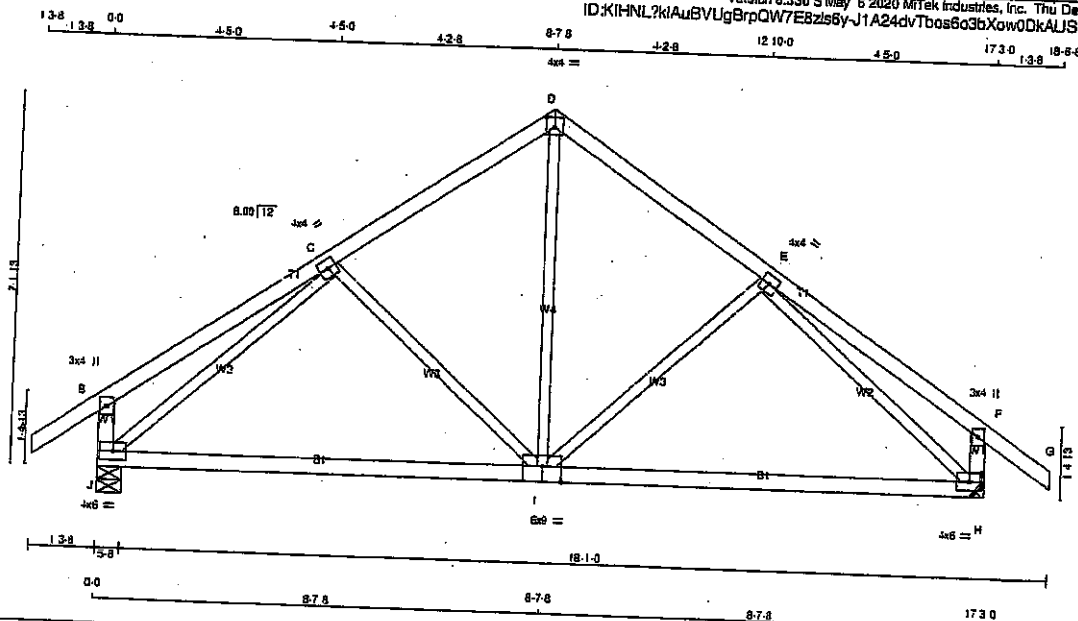


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
415113	T40	2	1	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

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Scale = 1/40



TOTAL WEIGHT = 2 X 73 = 146 LB

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
J - B	2x4	DRY	No.2
H - F	2x4	DRY	No.2
I - H	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	TMV-p	MT20	3.0	4.0		
C	TMWW-I	MT20	4.0	4.0		
D	TTW-p	MT20	4.0	4.0	2.25	2.00
E	TMWW-I	MT20	4.0	4.0		
F	TMV-p	MT20	3.0	4.0		
H	BMVW-I	MT20	4.0	6.0		
I	BSWW-I	MT20	6.0	9.0	Edge	4.50
J	BMVW-I	MT20	4.0	6.0		

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	IN-SX	IN-SX
J	1077	0	5-8	5-8
H	1077	0	5-8	5-8

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
J	COMBINED	SNOW	LIVE			
J	759	512	0	0	248	0
H	759	512	0	0	248	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 = 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)	LC1	MAX	CS1 (LC)	UNBRAC LENGTH	FR-TO	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	CS1 (LC)
A-B	0	35	-91.8	-91.8	0.12 (1)	10.00			I-D	0	495	0.11 (1)
B-C	0	26	-91.8	-91.8	0.27 (1)	10.00			I-E	-249	0	0.15 (1)
C-D	-747	0	-91.8	-91.8	0.22 (1)	6.25			C-I	-249	0	0.15 (1)
D-E	-747	0	-91.8	-91.8	0.22 (1)	6.25			J-C	-1055	0	0.61 (1)
E-F	0	25	-91.8	-91.8	0.27 (1)	10.00			E-H	-1055	0	0.61 (1)
F-G	0	35	-91.8	-91.8	0.12 (1)	10.00						
J-B	-277	0	0.0	0.0	0.03 (1)	7.81						
H-F	-277	0	0.0	0.0	0.03 (1)	7.81						
J-I	0	785	-18.5	-18.5	0.46 (4)	10.00						
I-H	0	785	-18.5	-18.5	0.46 (4)	10.00						

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.8	PSF
	DL	=	5.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	39.0	PSF

SPACING = 24.0 IN/C

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

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

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

ALLOWABLE DEFL. (LL) = L/360 (0.57")
CALCULATED VERT. DEFL. (LL) = L/999 (0.02")
ALLOWABLE DEFL. (TL) = L/360 (0.57")
CALCULATED VERT. DEFL. (TL) = L/763 (0.27")

CSI: TC=0.27/1.00 (E-F:1), BC=0.46/1.00 (H-I:4),
WB=0.51/1.00 (E-H:1), SS=0.16/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 768 1987 1666

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

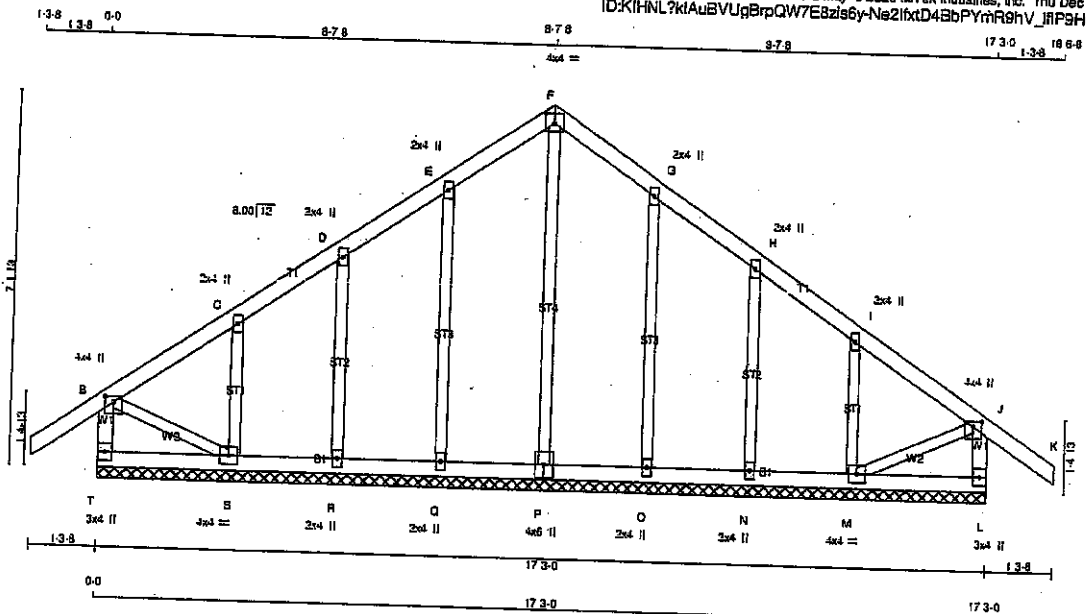
JSI GRIP= 0.86 (C) (INPUT = 0.90)
JSI METAL= 0.37 (C) (INPUT = 1.00)



Structural component only
DWG# T-2028339

JOB NAME 415113	TRUSS NAME G40	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1/40

LUMBER

N.L.G.A. RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.
T - B	2x4	DRY	No.2	SPF	
A - F	2x4	DRY	No.2	SPF	
F - K	2x4	DRY	No.2	SPF	
L - J	2x4	DRY	No.2	SPF	
T - P	2x4	DRY	No.2	SPF	
P - L	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 24-0 OC.

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 D, E, G, H, I					
C TMVW+p	MT20	2.0	4.0		
F TTW+p	MT20	4.0	4.0	2.25	2.00
J TMVW+p	MT20	4.0	4.0	1.25	2.00
L BMV1+p	MT20	3.0	4.0		
M BMVW1+p	MT20	4.0	4.0		
N, O, Q, R					
N BMV1+p	MT20	2.0	4.0		
P BSW1+p	MT20	4.0	6.0		
S BMVW1+p	MT20	4.0	4.0		
T BMV1+p	MT20	3.0	4.0		

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED

LOADING

TOTAL LOAD CASES: 141

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MEMB.
FR-TO				FR-TO			
T-B	-251.0	0.0	0.03 (1)	P-F	-133.0	0.12 (1)	
A-B	0.35	-91.8	-91.8 (1)	Q-E	-212.0	0.11 (1)	
B-C	-22.0	-91.8	-91.8 (1)	R-D	-158.0	0.05 (1)	
C-D	-34.0	-91.8	-91.8 (1)	S-C	-241.0	0.04 (1)	
D-E	-17.0	-91.8	-91.8 (1)	O-G	-212.0	0.11 (1)	
E-F	-29.0	-91.8	-91.8 (1)	N-H	-153.0	0.05 (1)	
F-G	-29.0	-91.8	-91.8 (1)	M-I	-241.0	0.04 (1)	
G-H	-17.0	-91.8	-91.8 (1)	B-S	0.31	0.01 (1)	
H-I	-34.0	-91.8	-91.8 (1)	M-J	0.31	0.01 (1)	
I-J	-22.0	-91.8	-91.8 (1)				
J-K	0.35	-91.8	-91.8 (1)				
K-L	-251.0	0.0	0.03 (1)				
T-S	0.0	-18.5	-18.5 (4)				
S-R	0.21	-18.5	-18.5 (4)				
R-Q	0.18	-18.5	-18.5 (4)				
Q-P	0.15	-18.5	-18.5 (4)				
P-O	0.15	-18.5	-18.5 (4)				
O-N	0.18	-18.5	-18.5 (4)				
N-M	0.21	-18.5	-18.5 (4)				
M-L	0.0	-18.5	-18.5 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

CS: TC=0.12/1.00 (A-B:1), BC=0.03/1.00 (R-S:4), WB=0.12/1.00 (F-P:1), SS=0.09/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

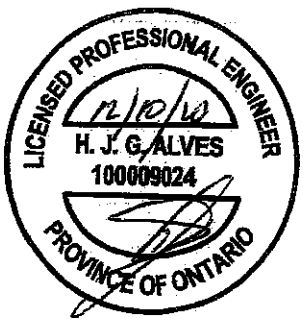
PLATE GRIP (DRY)	SHEAR SECTION (PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618	354	1667

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.61 (M) (INPUT = 0.90)

JSI METAL = 0.12 (C) (INPUT = 1.00)



Structural component only
DWG# T-2028327

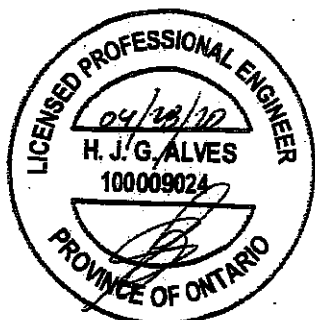
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408164	T300	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 5 Oct 29 2019 MITek Industries, Inc. Tue Apr 28 10:55:39 2020 Page 2
ID:1ebEM4Ce92xn94Zv7tkP1zmBR3-bx1fL5mM4n3Apu4XkHrQqCR78hNAmPvdMpc8zMDc

FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
U	18-10-4	-67	-67	---	FRONT	VERT	TOTAL	---	C1
V	20-10-4	-67	-67	---	FRONT	VERT	TOTAL	---	C1
W	22-10-4	-67	-67	---	FRONT	VERT	TOTAL	---	C1
X	24-10-4	-67	-67	---	FRONT	VERT	TOTAL	---	C1
Y	26-10-4	-67	-67	---	FRONT	VERT	TOTAL	---	C1
Z	14-10-4	-13	-13	---	FRONT	VERT	TOTAL	---	C1
AA	16-10-4	-13	-13	---	FRONT	VERT	TOTAL	---	C1
AB	18-10-4	-13	-13	---	FRONT	VERT	TOTAL	---	C1
AC	20-10-4	-13	-13	---	FRONT	VERT	TOTAL	---	C1
AD	22-10-4	-13	-13	---	FRONT	VERT	TOTAL	---	C1
AE	24-10-4	-13	-13	---	FRONT	VERT	TOTAL	---	C1
AF	26-10-4	-13	-13	---	FRONT	VERT	TOTAL	---	C1
AG	30-10-4	-13	-13	---	FRONT	VERT	TOTAL	---	C1

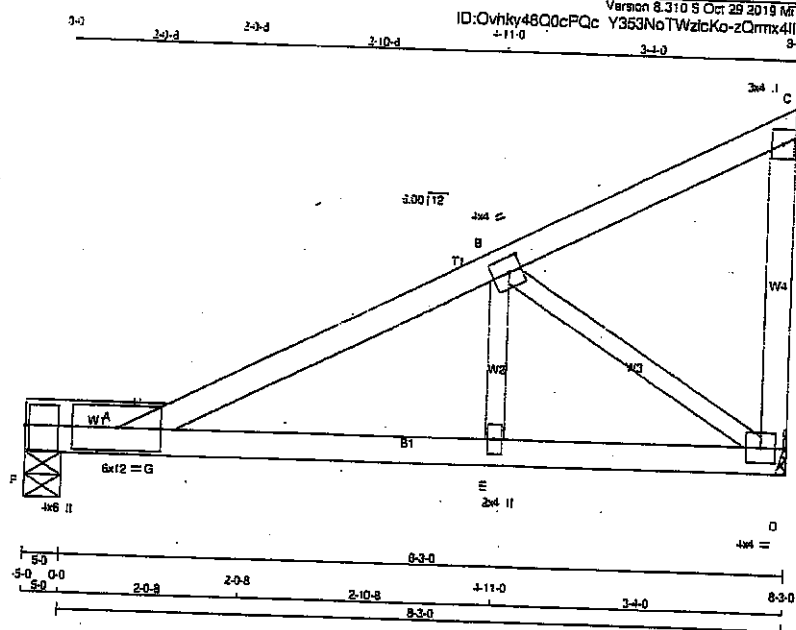
CONNECTION REQUIREMENTS

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



Structural component only
DWG# T-2007739 7/1

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC	TRUSS DESC.	DRWG NO
408165	T320	4	1	GREEN PARK HOMES		
Tamarack Roof Truss, Burlington						



Scale = 1/231

LUMBER

N.L.G. A. RULES	CHORDS	SIZE	DRY	No.2
A - C	2x4	DRY	No.2	
D - C	2x4	DRY	No.2	
F - D	2x4	DRY	No.2	
F - A	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
A	TBMWm	MT20	6.0	12.0		
B	TBMWm	MT20	4.0	4.0	2.00	1.75
C	TBMWm	MT20	3.0	4.0		
D	TBMWm	MT20	4.0	4.0		
E	TBMWm	MT20	2.0	4.0		
F	TBMWm	MT20	4.0	6.0	3.25	0.50

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

DESCR.	FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	BRG	BRG
D	VERT	DOWN	UP	IN-SX
F	478	0	0	MECHANICAL
F	478	0	0	5-0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
D	338	222	0	0	0	0	116	0
F	338	222	0	0	0	0	116	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. FACTORED CS (LBS)	MAX. FACTORED UNBRACED LENGTH (LBS)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS (LBS)
FR-TO						FR-TO			
A-H	-831	0	-91.8	-91.8	0.21 (1)	E-B	0	195	0.04 (1)
H-B	-827	0	-91.8	-91.8	0.29 (1)	B-D	-715	0	0.18 (1)
B-C	-27	0	-91.8	-91.8	0.21 (1)	G-H	0	281	0.00 (1)
D-C	-93	0	0.0	0.0	0.02 (1)				
F-A	0	0	-110.3	-110.3	0.25 (1)				
A-G	0	602	-18.5	-18.5	0.69 (1)				
G-E	0	602	-18.5	-18.5	0.47 (1)				
E-D	0	602	-18.5	-18.5	0.23 (1)				

TOTAL WEIGHT = 4 X 30 = 119 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 2010, NBCC 2015, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (0.28")
CALCULATED VERT. DEFL. (LL) = L/999 (0.08")
ALLOWABLE DEFL. (TL) = L/360 (0.28")
CALCULATED VERT. DEFL. (TL) = L/708 (0.15")

CS: TC=0.29/1.00 (B-H:1), BC=0.69/1.00 (A-G:1), WB=0.18/1.00 (B-D:1), SS=0.30/1.00 (A-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

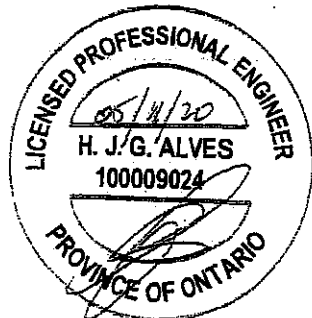
NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.85 (D) INPUT = 0.90

JSI METAL = 0.26 (A) INPUT = 1.00



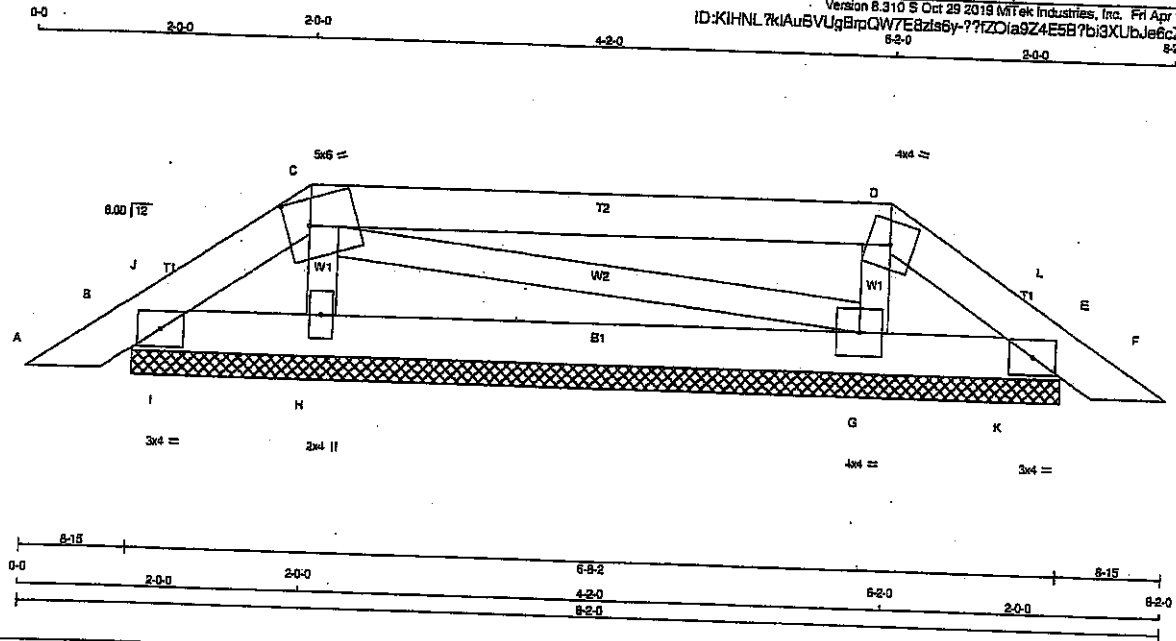
Structural component only
DWG# T-2009109

JOB NAME 408163	TRUSS NAME PB1	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID:KIHNL7kIAuBVUgBrpQW7E8zIs6y-??fZOl9Z4E5B7b13XUlbJefcZjnKh7IP614NurZPbXN

Scale = 1:14.5



LUMBER

N.L.G.A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
B - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
B - 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	TMB1-I	MT20	3.0	4.0		
C	TTWW-m	MT20	5.0	6.0	2.25	2.00
D	TTWW-m	MT20	4.0	4.0		
E	TMB1-I	MT20	3.0	4.0		
G	BMWW1-I	MT20	4.0	4.0		
H	BMWW1-w	MT20	2.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
B	145	0	145	0	6-8-2	6-8-2
E	141	0	141	0	6-8-2	6-8-2
H	283	0	283	0	6-8-2	6-8-2
G	289	0	289	0	6-8-2	6-8-2

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	99	83:0	0:0	0:0	0:0	17:0	0:0
E	97	81:0	0:0	0:0	0:0	16:0	0:0
H	202	121:0	0:0	0:0	0:0	81:0	0:0
G	206	125:0	0:0	0:0	0:0	81:0	0:0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED		MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	
		VERT. LOAD FROM	LC1 TO			CSI (LC)	CSI (LC)
FR-TO							
A-B	0 / 15	-91.8	-91.8	0.03 (1)	10.00	H-C	-203 / 0
B-J	-44 / 0	-91.8	-91.8	0.01 (4)	8.25	C-G	-6 / 0
J-C	-51 / 0	-91.8	-91.8	0.01 (1)	6.25	G-D	-208 / 0
C-D	-11 / 0	-91.8	-91.8	0.27 (1)	6.25	I-J	-68 / 0
D-L	-45 / 0	-91.8	-91.8	0.01 (1)	6.25	K-L	-69 / 0
L-E	-37 / 2	-91.8	-91.8	0.01 (4)	6.25		
E-F	0 / 15	-91.8	-91.8	0.03 (1)	10.00		
B-I	0 / 40	-18.5	-18.5	0.03 (1)	10.00		
I-H	0 / 40	-18.5	-18.5	0.05 (4)	10.00		
H-G	0 / 17	-18.5	-18.5	0.05 (4)	10.00		
G-K	0 / 35	-18.5	-18.5	0.05 (4)	10.00		
K-E	0 / 35	-18.5	-18.5	0.03 (1)	10.00		

TOTAL WEIGHT = 2 X 22 = 44 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, OSC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

CSI: TC=0.27/1.00 (C-D:1), BC=0.05/1.00 (H-I:4), WB=0.09/1.00 (D-G:1), SS=0.15/1.00 (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

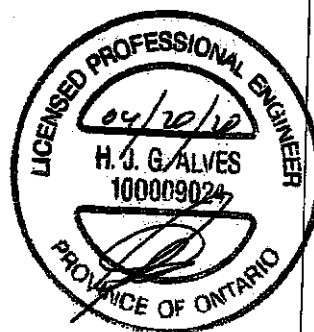
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 788	1987 1655

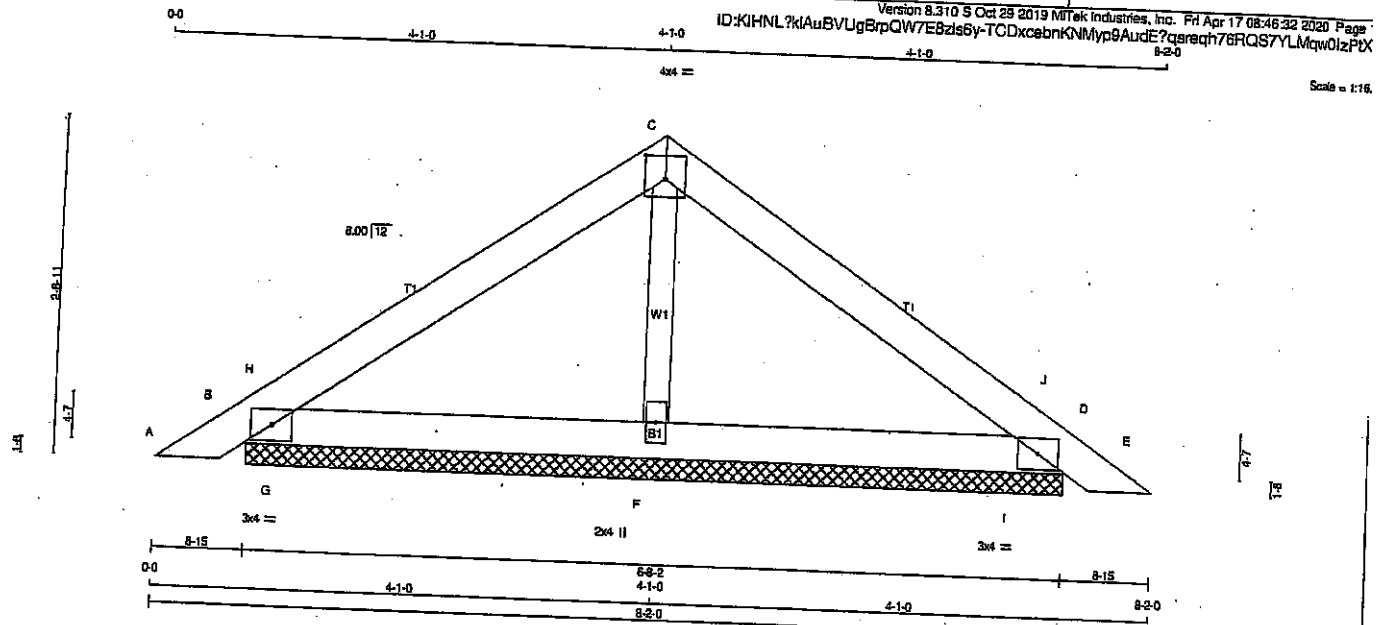
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.16 (D) (INPUT = 0.90)
JSI METAL = 0.05 (C) (INPUT = 1.00)



JOB NAME 408163	TRUSS NAME PB2	QUANTITY 7	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.310 S Oct 29 2019 MTek Industries, Inc. Fri Apr 17 08:46:32 2020 Page 1	



LUMBER

N.L.G.A. RULES

CHORDS SIZE

A - C 2x4 DRY

C - E 2x4 DRY

B - D 2x4 DRY

ALL WEBS 2x3 DRY

DRY, SEASONED LUMBER

LUMBER

No.2

No.2

No.2

No.2

No.2

DESCR.

SPF

SPF

SPF

SPF

SPF

PLATES (table is in inches)

JT TYPE PLATES

B TMB1-I MT20

C TTW-p MT20

D TMB1-I MT20

F BMW1-w MT20

W

LEN

Y

X

2.25

2.00

2.00

2.00

2.00

2.00

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
B	284	284	6-8-2	6-8-2
D	284	284	6-8-2	6-8-2
F	291	291	6-8-2	6-8-2

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
B	198	142.0	0.0	0.0	56.0	0.0
D	198	142.0	0.0	0.0	56.0	0.0
F	208	125.0	0.0	0.0	83.0	0.0

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LCH (LC)	MAX. FACTORED UNBRACED LENGTH (FR-TO)	WEBS MAX. FACTORED FORCE (LBS)	MAX. FACTORED LCH (LC)
FR-TO						
A-B	0.15	-91.8	-91.8	0.03 (1)	10.00	
B-H	-32.0	-91.8	-91.8	0.05 (1)	6.25	
H-C	-111.0	-91.8	-91.8	0.12 (1)	6.25	
C-J	-111.0	-91.8	-91.8	0.12 (1)	6.25	
J-D	-32.0	-91.8	-91.8	0.05 (1)	6.25	
D-E	0.15	-91.8	-91.8	0.03 (1)	10.00	
B-G	0.88	-18.5	-18.5	0.12 (1)	10.00	
G-F	0.88	-18.5	-18.5	0.12 (1)	10.00	
F-I	0.88	-18.5	-18.5	0.12 (1)	10.00	
I-D	0.88	-18.5	-18.5	0.12 (1)	10.00	

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. OC

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2010, NBCC 2012, ABC 2019

- PART 9 OF NBC 2012 (2019 AMENDMENT)

- CSA 088-09, CSA 088-14

- TPIC 2011, TPIC 2014

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

CSI: TC=0.12/1.00 (C-H:1), BC=0.12/1.00 (B-G:1), WB=0.02/1.00 (C-F:1), SS=0.21/1.00 (B-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP (DRY) SHEAR (PSI)	SECTION (PL)	MAX MIN	MAX MIN	MAX MIN
MT20	618	354	1657	788
			1987	1836

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.24 (B) (INPUT = 0.90)

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

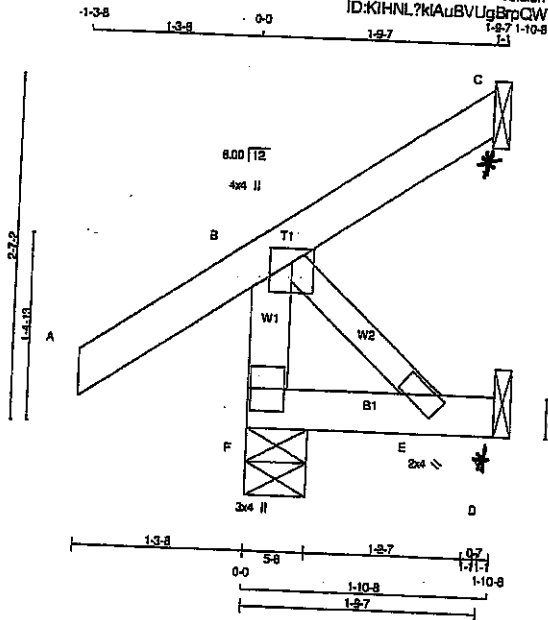


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408163	J1	3	1	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

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ID:KIHNL7KIAuBVUgBrCQW7E8zls6y-H43nItUw7zW7TqnTQIFvXhxChMTLTKwp8f7RzPDKV

Scale = 1:15



LUMBER

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

PLATES (table is in inches)

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

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

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT	DOWN	IN-SX	IN-SX
F	274	0	5-8
C	34	0	1-8
D	17	0	1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D
PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS. FACTORED UPLIFT

UNFACTORED REACTIONS

1ST CASE	MAX/MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
F	190	143/0 0/0 0/0 0/0 47/0 0/0
C	23	19/-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	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LG1 MAX (PLF)	CSH (LC) UNBRAC LENGTH FR-TO	MEMB. MAX. FORCE (LBS) CSH (LC)
FR-TO		FROM TO		
F-B	-256/0	0.0 0.0 0.03 (1)	7.81	B-E 0.0 0.00 (1)
A-B	0/35	-91.8 -91.8 0.12 (1)	10.00	
B-C	-27/0	-91.8 -91.8 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 0.02 (4)	10.00	

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 9 = 27 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6 PSF
	DL = 8.0 PSF
BOT CH.	LL = 0.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 38.0 PSF

SPACING = 24.0 IN. OC

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 2010, 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 DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/599 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSH TC=0.12/1.00 (A-B:1), BC=0.02/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SS=0.08/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

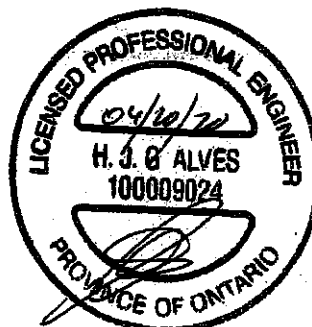
NAIL VALUES

PLATE GRIP (DRY)	SHEAR	SECTION
(PSI)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN
MT20 618 354	1657 788	1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

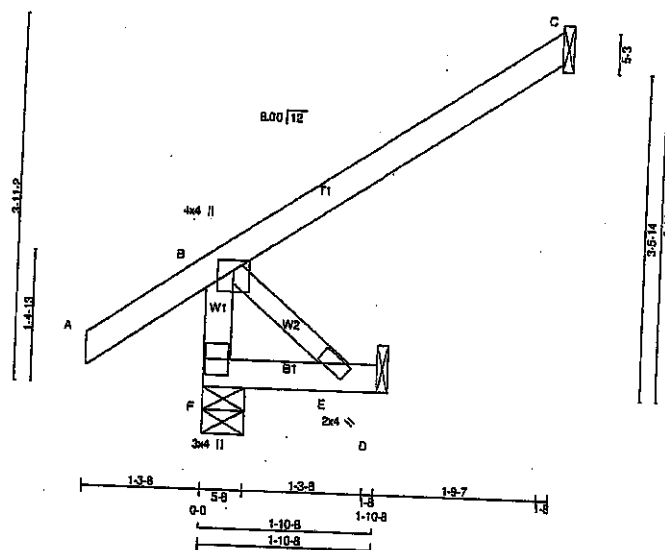


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408163	J2	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:22



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.

LUMBER

No.2

DESCR.

SPF

SPF

SPF

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

BEARINGS

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT HORZ	DOWN HORZ UPLIFT	IN-SX	IN-SX
F 317 0	317 0 0	5.8	5.8
C 174 0	174 0 0	1.8	1.8
D 17 0	19 0 0	1.8	1.8

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX/MIN COMPONENT REACTIONS	WIND	DEAD	SOIL
COMBINED	SNOW	LIVE	PERM.LIVE		
F 220	167.0	0.0	0.0	53.0	0.0
C 120	97.0	0.0	0.0	23.0	0.0
D 14	0.0	0.0	0.0	14.0	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	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 MAX. (LC)	MAX. UNBRACED LENGTH FT-TO	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 MAX. (LC)
F-B	-300.0	0.0	0.0	0.03 (1)	7.81	B-E	0.0	0.00 (1)	10.00
A-B	0.35	-91.8	-91.8	0.13 (5)	10.00				
B-C	0.0	-91.8	-91.8	0.22 (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

TOTAL WEIGHT = 3 X 12 = 36 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF

DL = 8.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 33.0 PSF

SPACING = 24.0 IN./C/C

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

THIS DESIGN COMPLIES WITH:

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

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

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

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

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

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

CSI: TC=0.22/1.00 (B-C:1), BC=0.02/1.00 (E-F: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) (PLI)

MAX MIN MAX MIN MAX MIN

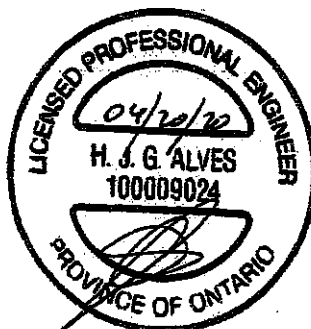
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.21 (B) (INPUT = 0.50)

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



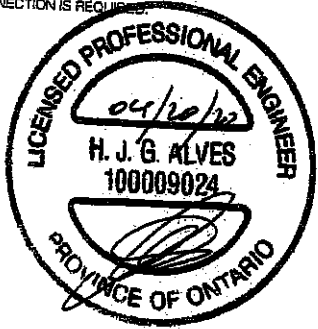
Structural component only

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4-1-1 5-10-8



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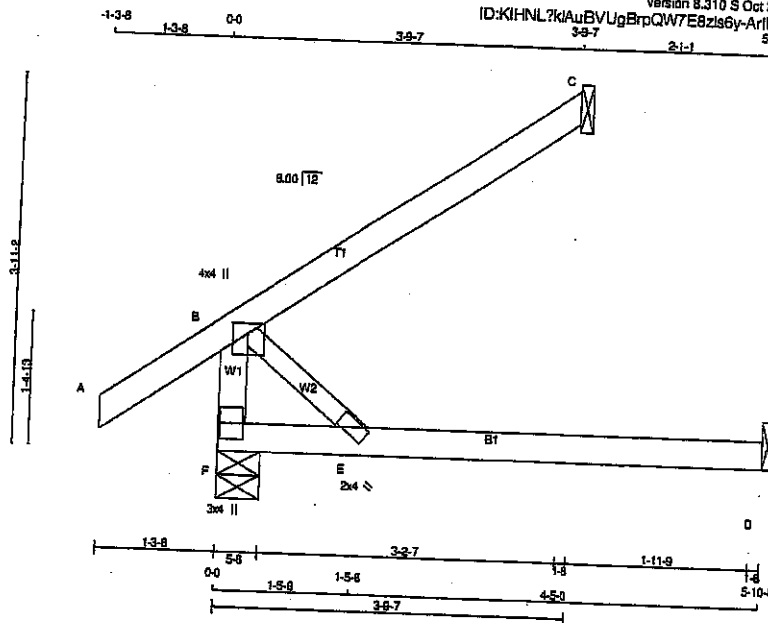
CONNECTION REQUIREMENTS



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408163	J4	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

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Scale = 1/22'



LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY
DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	RECORD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
F	354	0	354	0	5-8	5-8
C	174	0	174	0	1-8	1-8
D	54	0	61	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX. MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	250	167 / 0	0 / 0	0 / 0	0 / 0	83 / 0	0 / 0
C	120	97 / 0	0 / 0	0 / 0	0 / 0	23 / 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, C

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	FR-TO	CHORDS		FACTORED		MAX. UNBRACED LENGTH	MEMB.	WEBS	
		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	VERT. LOAD (LBS)	FACTORED MAX. CSI (LC)			MAX. FACTORED FORCE (LBS)	FACTORED MAX. CSI (LC)
F-B		300 / 0	0.0	0.0	0.03 (1)	7.81	B-E	0 / 0	0.00 (1)
A-B		0 / 35	-91.8	-91.8	0.12 (1)	10.00			
B-C		0 / 0	-91.8	-91.8	0.22 (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			

TOTAL WEIGHT = 2 X 16 = 32 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH	LL	=	25.6	PSF
DL	=	8.0	PSF	
BOT GH	LL	=	0.0	PSF
DL	=	7.4	PSF	
TOTAL LOAD	=	39.0	PSF	

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.22/1.00 (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	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX	MIN	MAX	MIN
MT20	618	354	1687
	788	1987	1856

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

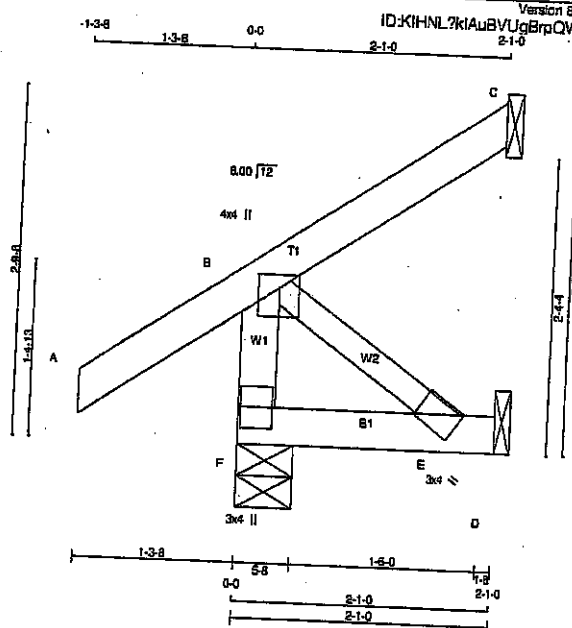
JSI GRIP= 0.21 (B) (INPUT = 0.90)

JSI METAL= 0.08 (B) (INPUT = 1.00)



Structural component only

JOB NAME 408163	TRUSS NAME J6	QUANTITY 5	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



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Scale = 1/16

LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY
DRY: SEASONED LUMBER

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
F	241	241	5-8	5-8
C	196	196	1-8	1-8
D	19	22	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	188	124 / 0	0 / 0	0 / 0	0 / 0	0 / 0	44 / 0	0 / 0
C	68	53 / 0	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0
D	15	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	15 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. FACTORED LENGTH FR-TO	W E B S	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LENGTH FR-TO
F-B	222 / 0	0.0	0.0	0.02 (1)	7.81	B-E	0 / 0	0.00 (1)
A-B	0 / 35	-91.8	-91.8	0.12 (5)	10.00			
B-C	0 / 0	-91.8	-91.8	0.07 (1)	10.00			
F-E	0 / 0	-18.5	-18.5	0.02 (4)	10.00			
E-D	0 / 0	-18.5	-18.5	0.02 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 5 X 10 = 49 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2015, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

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

CS: TC=0.12/1.00 (A-B-S), BC=0.02/1.00 (E-F-A),
WB=0.00/1.00 (B-E-1), SS=0.08/1.00 (A-B-S)

DCL 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.

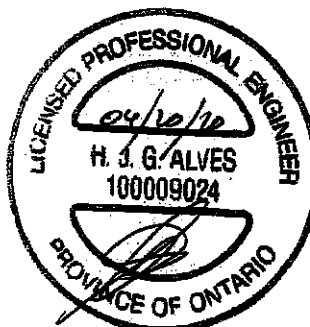
NAIL VALUES

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

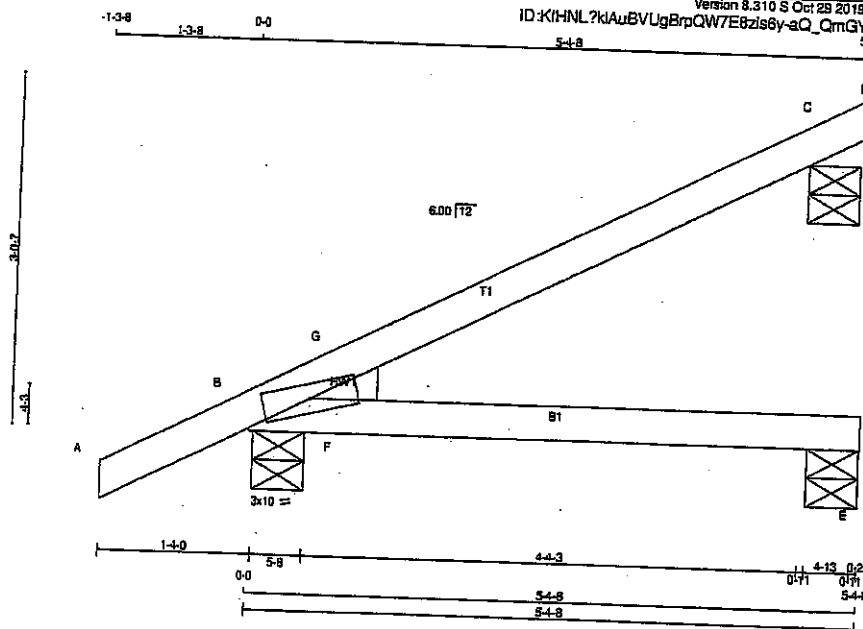
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.15 (B) (INPUT = 0.90)
JSI METAL = 0.05 (B) (INPUT = 1.00)



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408163	J7	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			



Scale = 1:18

LUMBER

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

DRY-SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMBH1-m	MT20	3.0	10.0	

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG	HEEL
JT	VERT	HORZ	DOWN	HORZ	WEDGE
B	408	0	408	0	0
E	80	0	80	0	0
C	235	0	235	0	0

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

UNFACTORED REACTIONS

1ST CASE		MAX/MIN COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM	LIVE	WIND	DEAD	SOIL
B	287	201 / 0	0 / 0	0 / 0	0 / 0	0 / 0	86 / 0	0 / 0
E	59	21 / 0	0 / 0	0 / 0	0 / 0	0 / 0	38 / 0	0 / 0
C	162	125 / 0	0 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, 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	MAX. FACTORED	FACTORED	W E B S	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1	MAX. UNBRAC	FORCE (LBS)
FR-TO		FROM TO	LENGTH FR-TO	
A-B	0 / 26	-91.8 -91.8 0.12 (1)	10.00	F-G -191 / 14
B-G	-23 / 0	-91.8 -91.8 0.08 (4)	8.25	
G-C	0 / 4	-91.8 -91.8 0.30 (1)	10.00	
C-D	-7 / 0	-91.8 -91.8 0.01 (1)	10.00	
B-F	0 / 0	-18.5 -18.5 0.23 (1)	10.00	
F-E	0 / 0	-18.5 -18.5 0.23 (1)	10.00	

TOTAL WEIGHT = 2 X 15 = 31 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 085-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(LL) = $L/899$ (0.05")
ALLOWABLE DEFL.(TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(TL) = $L/664$ (0.10")

CSI: TC=0.30/1.00 (C-G:1), BC=0.23/1.00 (E-F:1),
WB=0.00/1.00 (F-G:1), SSI=0.16/1.00 (B-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

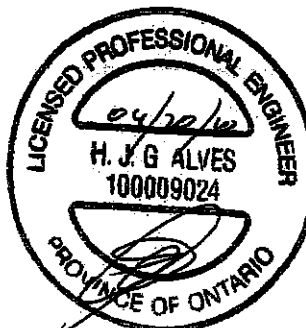
NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354 1667 788 1987 1658	

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

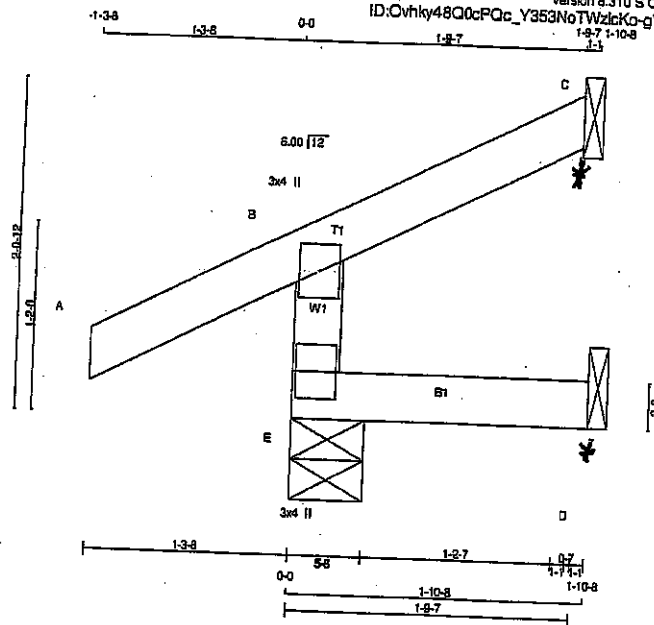
JSI GRIP = 0.11 (B) (INPUT = 0.90)
JSI METAL = 0.03 (B) (INPUT = 1.00)



JOB NAME 408165 Tamarack Roof Truss, Burlington	TRUSS NAME J21	QUANTITY 6	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Scale = 1:12



LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
C	271	0	271	0	5-8	5-8
D	45	0	45	0	1-8	1-8
E	8	0	17	0	1-8	1-8

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

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

UNFACTORED REACTIONS

JT	COMBINED	MAX. MIN. COMPONENT REACTIONS				
		SNOW	LIVE	PERM. LIVE	WIND	DEAD
E	158	141 / 0	0 / 0	0 / 0	0 / 0	47 / 0
C	31	24 / -18	0 / 0	0 / 0	0 / 0	7 / 0
D	7	0 / -8	0 / 0	0 / 0	0 / 0	12 / 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: (5)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1		MAX. CSI (LC)	MAX. UNBRACED LENGTH FR-TO	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
		FROM	TO				
E-B	-244 / 0	0.0	0.0	0.04 (5)	7.81		
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00		
B-C	-17 / 0	-91.8	-91.8	0.09 (1)	6.25		
E-D	0 / 0	-18.5	-18.5	0.04 (5)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 33.0 PSF

SPACING = 24.0 IN. CC

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

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

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

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.04/1.00 (D-E:5), WB=0.00/1.00 (N/A:0), SS=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

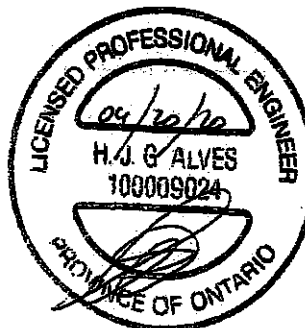
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSD) (PLJ) (PLJ)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1867 788 1987 1658

PLATE PLACEMENT TOL = 0.250 inches

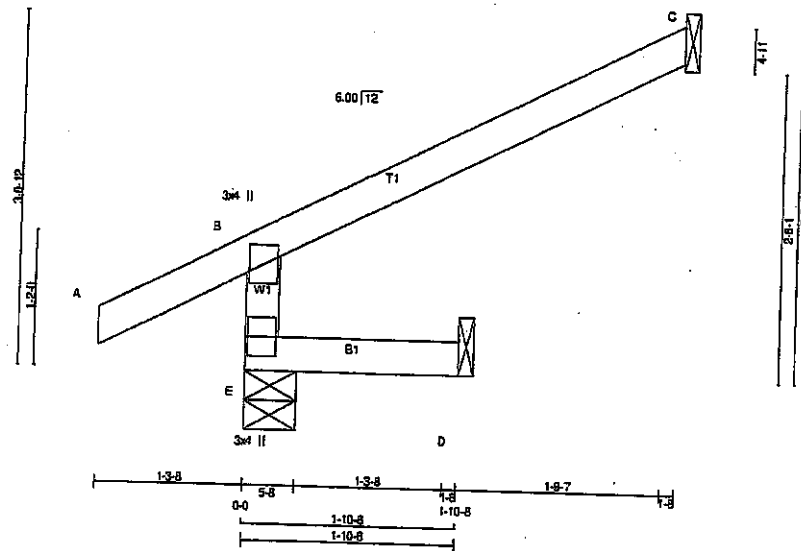
PLATE ROTATION TOL = 5.0 Deg.

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



JOB NAME 408165 Tamarack Roof Truss, Burlington	TRUSS NAME J22	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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 ID:Ovhky48Q0cPQc_Y353NoTWzlcKo-9h4tble50RLE9AKPkiXZhDM8UJeQn2VSchsV4zPz2a
 Scale = 1:12.2



LUMBER

N.L.G.A. RULES

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

DRY, SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
E	SMV1+p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
	VERT	DOWN	IN-SX	IN-SX
E	361	351	5-8	5-8
C	130	130	1-8	1-8
D	18	17	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	COMBINED	190/0	0/0	0/0	0/0	60/0	0/0
C		73/0	0/0	0/0	0/0	17/0	0/0
D		0/0	0/0	0/0	0/0	12/0	0/0

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

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

LOADING
 TOTAL LOAD CASES: (5)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)
FR-TO				
E-B	-342/0	0.0	0.0	0.01 (4)
A-B	0/28	-91.8	-91.8	0.13 (5)
B-C	-19/0	-91.8	-91.8	0.22 (1)
E-D	0/0	-18.5	-18.5	0.02 (4)

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 10 = 29 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. O.C.

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

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

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

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

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

CSI: TC=0.22/1.00 (B-C:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

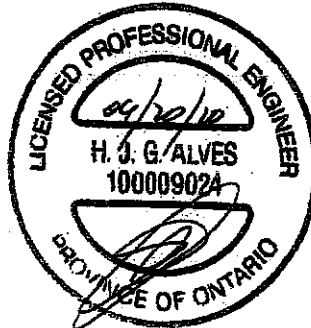
NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MAX. MIN	MAX. MIN	MAX. MIN
MT20	618 354	1967 788 1987 1656

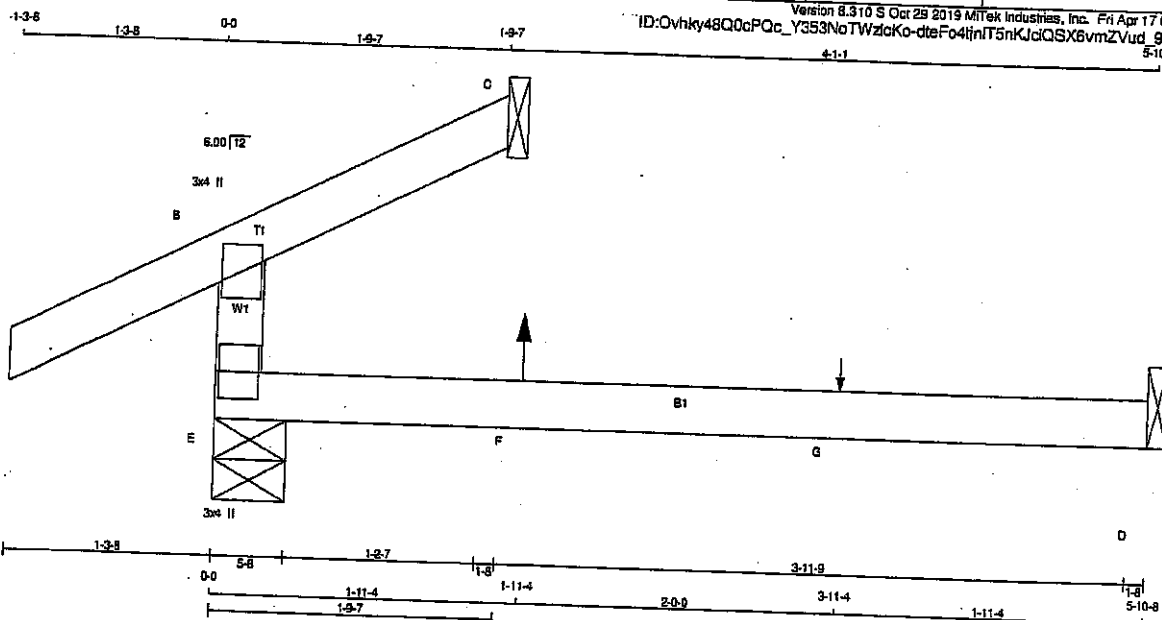
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (E) (INPUT = 0.90)
 JSI METAL= 0.09 (B) (INPUT = 1.00)



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408165	J23	2	1	GREEN PARK HOMES		
Tamarack Roof Truss, Burlington						



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

DRY, SEASONED LUMBER.

PLATES (table is in inches)

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
E	284	0	284	0	5-8	5-8
C	63	0	63	0	1-8	1-8
D	44	0	44	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED		MAX/MIN COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM	LIVE			
E	200	137.0	0.0	0.0	0.0	62.0	0.0
C	46	21.0	0.0	0.0	0.0	25.0	0.0
D	35	0.3	0.0	0.0	0.0	37.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (7)

MEMB.	CHORDS		FACTORED		WEBS		MAX. FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. VERT. LOAD (LBS)	MAX. HORZ. LOAD (LBS)	MAX. VERT. LOAD (LBS)	MAX. HORZ. LOAD (LBS)	MAX. VERT. LOAD (LBS)	MAX. HORZ. LOAD (LBS)
FR-TO								
E-B	-227.0	0.0	0.0	0.11 (4)	7.81			
A-B	0.728	-91.8	-91.8	0.12 (1)	10.00			
B-C	-9.9	-91.8	-91.8	0.08 (4)	10.00			
E-F	0.0	-18.5	-18.5	0.14 (4)	10.00			
F-G	0.0	-18.5	-18.5	0.14 (4)	10.00			
G-D	0.0	-18.5	-18.5	0.14 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
F	1-11.4	7	1	12	BACK	VERT	TOTAL		C1
G	3-11.4	1	1		BACK	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 12 = 23 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. OC

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBC 2010, NBC 2012, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL. (LL) = $L/360$ (0.20")

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

ALLOWABLE DEFL. (TL) = $L/360$ (0.20")

CALCULATED VERT. DEFL. (TL) = $L/999$ (0.04")

CSI: TC=0.12/1.00 (A-B:1), BC=0.14/1.00 (D-E:4).

WB=0.007/1.00 (n/a:0), SS=0.03/1.00 (A-B:1)

DOL LUMBER=0.99 NAIL=0.99 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

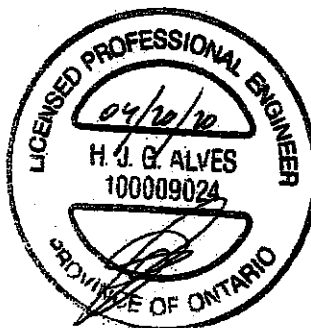
PLATE	GRIP (DRY)	SHEAR (PS)	SECTION (PL)
MT20	618	354	1657

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.10 (E) (INPUT = 0.90)

JSI METAL= 0.08 (B) (INPUT = 1.00)

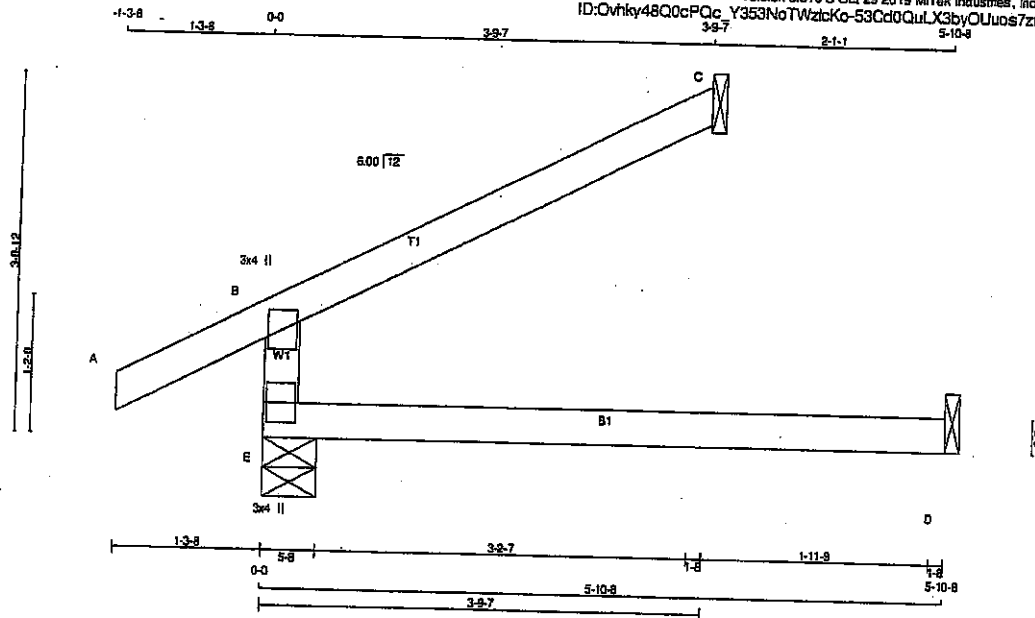


Structural component only

JOB NAME 408165	TRUSS NAME J24	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:17.5



LUMBER

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

DRY, SEASONED LUMBER.

PLATES (table is in inches)

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	RECORD BRG IN-SX
	VERT	HORZ	DOWN	HORZ.		
E	405	0	405	0	5-8	5-8
C	130	0	130	0	1-8	1-8
D	45	0	50	0	1-8	1-8

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

UNFACTORED REACTIONS

1ST LOASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	285	190 / 0	0 / 0	0 / 0	0 / 0	96 / 0	0 / 0
C	90	73 / 0	0 / 0	0 / 0	0 / 0	17 / 0	0 / 0
D	35	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)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX		MAX. UNBRACED LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED CSI (LC)
				FROM	TO				
FR-TO									
E-B	-342 / 0		0.0	0.0	0.13 (4)	7.81			
A-B	0 / 28		-91.8	-91.8	0.12 (1)	10.00			
B-C	-19 / 0		-91.8	-91.8	0.22 (1)	8.25			
E-D	0 / 0		-18.5	-18.5	0.13 (4)	10.00			

TOTAL WEIGHT = 2 X 14 = 28 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 25.6 PSF
DL	= 5.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL) = U360 (0.20")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.00")
ALLOWABLE DEFL.(TL) = U360 (0.20")
CALCULATED VERT. DEFL.(TL) = 1/999 (0.03")

CSI: TC=0.22/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354	1657
	788	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

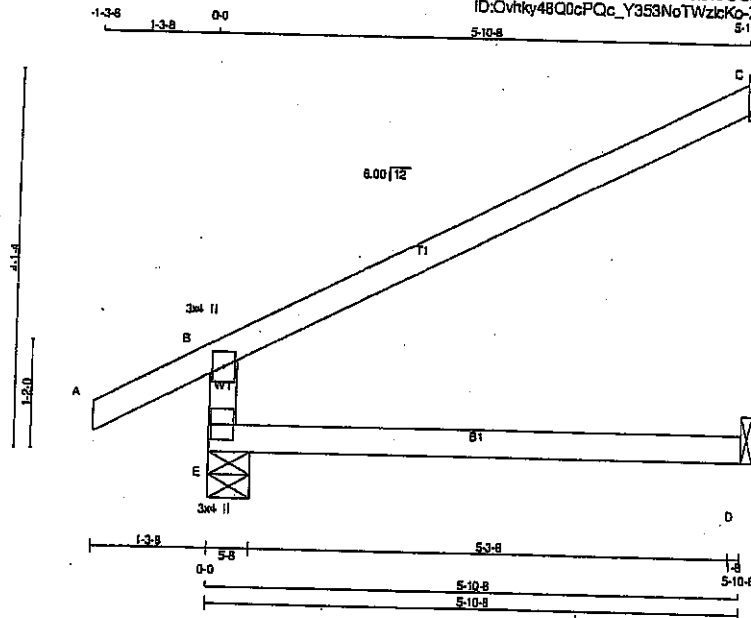
JSI GRIP = 0.14 (E) (INPUT = 0.90)
JSI METAL = 0.09 (B) (INPUT = 1.00)



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408165	J25	11	1	GREEN PARK HOMES		
Tamarack Roof Truss, Burlington						

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ID:Ovhtky48Q0cPQc_Y353NoTWzicKo-ZGm0DmvzIMjp0eT_CqU7BKmShrYd7ox8avW6PzPlZX

Scale = 1:22.5



LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
E	325	0	325	0	5-8	5-8
C	202	0	202	0	1-8	1-8
D	45	0	50	0	1-8	1-8

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

UNFACTORED REACTIONS

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

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		WEBS		MAX. FACTORED	
	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRAC	MEMB. FORCE (LBS)	MAX. UNBRAC	MEMB. FORCE (LBS)	MAX. UNBRAC
FR-TO								
E-B	-461.0	0.0	0.0	0.13 (4)	7.81			
A-B	0.28	-91.8	-91.8	0.12 (1)	10.00			
B-C	-30.0	-91.8	-91.8	0.54 (1)	5.25			
E-D	0.0	-18.5	-18.5	0.13 (4)	10.00			

TOTAL WEIGHT = 11 X 17 = 185 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL) = L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = 1/999 (0.03")

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

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT REEL ONLY

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

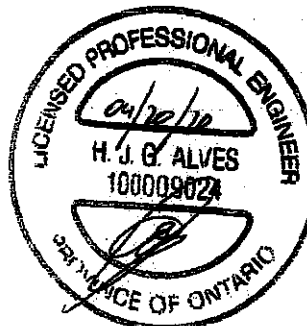
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 789	1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (E) (INPUT = 0.30)
JSI METAL= 0.13 (B) (INPUT = 1.00)

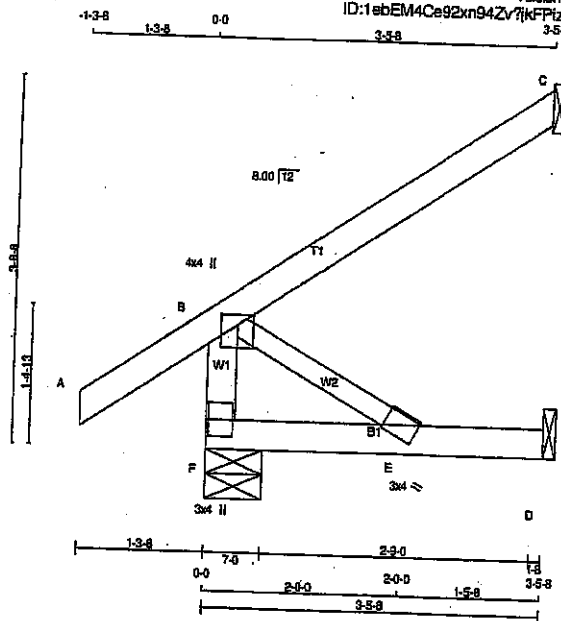


JOB NAME 408164	TRUSS NAME J26	QUANTITY 9	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DWG NO.
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Tamarack Roof Truss, Burlington

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ID:1ebEM4Ce92xn94Zv7kfPizmBR3-WDIdmG_7UJfkbQIMVLdkZnqnJND_mHU4qjDN7SzMDcR

Scale = 1/2" = 1'-0"



LUMBER

N.L.G.A. RULES

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

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

DESCR.
SPF
SPF
SPF

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	RECORD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
F	317	0	317	0	7-0	7-0
C	159	0	159	0	1-8	1-8
D	32	0	36	0	1-8	1-8

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	222	159/0	0/0	0/0	0/0	83/0	0/0
C	109	88/0	0/0	0/0	0/0	21/0	0/0
D	28	0/0	0/0	0/0	0/0	25/0	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)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRACED LENGTH	FR-TO	WEBS	
						MEMB. MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
F-B	-285/0	0.0	0.0	0.03 (1)	7.81	0/0	0.00 (1)
A-B	0/35	-91.8	-91.8	0.14 (5)	10.00		
B-C	0/0	-91.8	-91.8	0.19 (1)	10.00		
F-E	0/0	-18.5	-18.5	0.06 (4)	10.00		
E-D	0/0	-18.5	-18.5	0.06 (4)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 9 X 14 = 122 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.8	PSF
	DL = 6.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 39.0	PSF

SPACING = 24.0 IN. CG

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

THIS DESIGN COMPLIES WITH:

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

(65% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI TC=0.19/1.00 (B-C:1), BC=0.06/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SSI=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

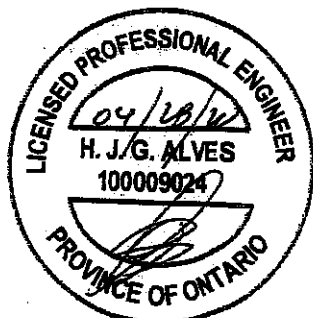
NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PL)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1657 788

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.20 (B) (INPUT = 0.90)
JSI METAL = 0.06 (B) (INPUT = 1.00)

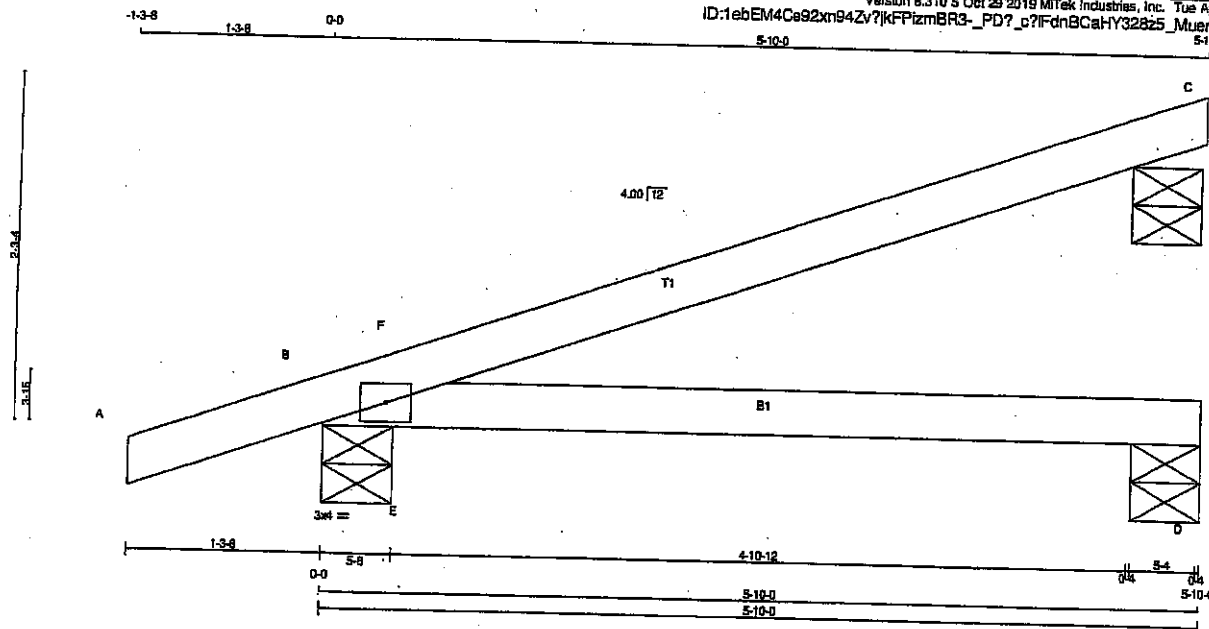


Structural component only
DWG# T-2007730

Tamarack Roof Truss, Burlington

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Scale at 1:13.6



DRY: SEASONED LUMBER

<u>PLATES (table is in inches)</u>					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-1	MT20	3.0	4.0	

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
JT	VERT	HORIZ	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX
C	234	0	234	0	0	-5-8	-5-8
B	444	0	444	0	0	-5-8	-5-8
D	88	0	88	0	0	-5-8	-5-8

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

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
A	182	126 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0
B	312	218 / 0	0 / 0	0 / 0	0 / 0	94 / 0	0 / 0
D	66	23 / 0	0 / 0	0 / 0	0 / 0	42 / 0	0 / 0

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

BEACING

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

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MAX. FACTORED		FACTORED		MAX. FACTORED		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		
A-B	0 / 18	-91.8	-91.8	0.11 (1)	10.00	E-F	324 / 12
B-F	-20 / 18	-91.8	-91.8	0.07 (4)	6.25		0.00 (1)
F-C	-2 / 2	-91.8	-91.8	0.41 (1)	10.00		
B-E	0 / 0	-18.5	-18.5	0.28 (1)	10.00		
E-D	0 / 0	-18.5	-18.5	0.28 (1)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	39.0	PSF

SPACING = 24.0 N/C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = $L/360$ (0.19")
 CALCULATED VERT. DEFL.(LL) = $L/999$ (0.07")
 ALLOWABLE DEFL.(TL) = $L/360$ (0.19")
 CALCULATED VERT. DEFL.(TL) = $L/501$ (0.14")

CSI: TC=0.41/1.00 (C-F:1), BC=0.28/1.00 (D-E:1),
WB=0.00/1.00 (E-F:1), SS=0.27/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

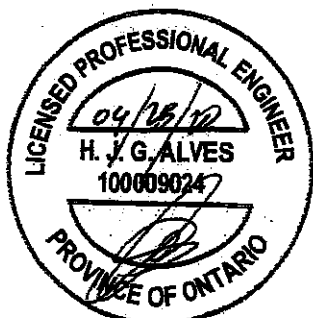
NAIL VALUES

	GRIP(DRY)		SHEAR		SECTION	
	(PSI)		(PLI)		(PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1687	788	1987	165

PLATE PLACEMENT TOL = 0.250 inches

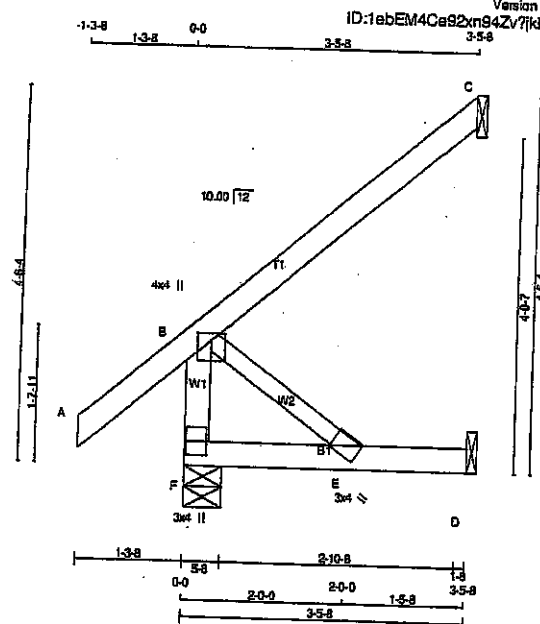
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.29 (B) (INPUT = 0.90)
JSI METAL= 0.08 (B) (INPUT = 1.00)



Structural component only

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408164	J28	7	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					



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Scale = 1/25.

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	2x2	DRY	No.2
DRY: SEASONED LUMBER			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.00 2.00
E	BMW+w	MT20	3.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		RECORD BRG	
JT	VERT	JT	DOWN	BRG	IN-SX	BRG	IN-SX
F	318	F	318	0	0	5-8	5-8
C	159	C	159	0	0	1-8	1-8
D	32	D	36	0	0	1-8	1-8

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

UNFACTORED REACTIONS		MAX/MIN. COMPONENT REACTIONS		1ST LOASE		COMBINED	
JT	SNOW	JT	LIVE	JT	PERM. LIVE	JT	WIND
F	222	F	159/0	F	0/0	F	0/0
C	109	C	88/0	C	0/0	C	0/0
D	26	D	0/0	D	0/0	D	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	LC1 MAX (PLF)	MEMB.	FORCE (LBS)	MAX. FORCE (LBS)	MAX. CSI (LC)
FR-TO				FR-TO			
F-B	-288/0	0.0	0.0 0.03 (1)	B-E	0/0	0.00 (1)	
A-B	0/41	-91.8	-91.8 0.14 (5)				
B-C	0/0	-91.8	-91.8 0.19 (1)				
F-E	0/0	-18.5	-18.5 0.05 (4)				
E-D	0/0	-18.5	-18.5 0.05 (4)				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 7 X 14 = 101 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. OC

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

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

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

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

CSI: TC=0.19/1.00 (B-C:1), BC=0.06/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SS=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

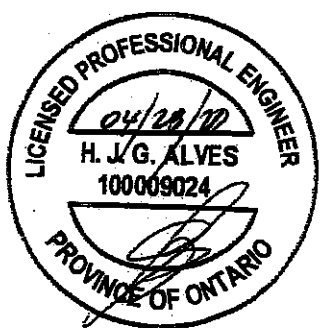
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1657 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.22 (B) (INPUT = 0.80)
JSI METAL = 0.06 (B) (INPUT = 1.00)

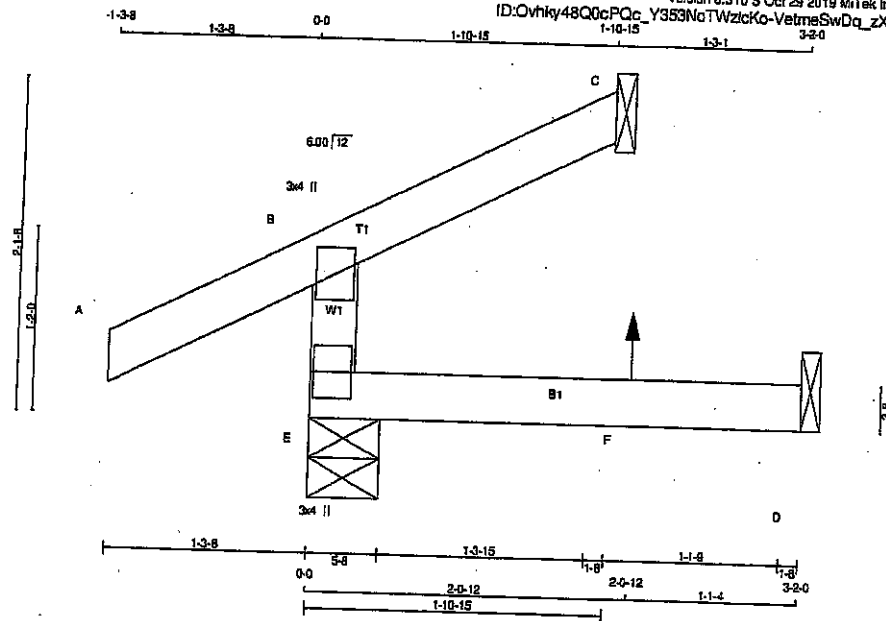


Structural component only
DWG# T-2007732

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408165	J31	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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 ID:Ovhky48Q0cPQc_Y353NoTWzlcKo-VetmaSwDa_zXFxcNXFWTGlxDJV0Q51IEauOdAlzPzZ

Scale = 1:10



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

DRY: SEASONED LUMBER:

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

19204615967690640

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
E	264	0	264	0	0	5-8	5-8
C	66	0	66	0	2-0	1-8	1-8
D	21	0	28	0	0	1-8	1-8

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

UNFACTORED REACTIONS							
1ST LOASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	185	128.0	0.0	0.0	0.0	57.0	0.0
C	46	37.0	0.0	0.0	0.0	9.0	0.0
U75821435X.....@. @. / 4			0.0	0.0	0.0	20.0	0.0

HORIZONTAL REACTIONS					
131493824989102080 / 0	0'0	0'0	0'0	0'0	0'0

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

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

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

LOADING
 TOTAL LOAD CASES: (8)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 MAX (PLF)	CS1 (LC) UNBRAC	MEMB. FORCE MAX (LBS)
FR-TO		FROM TO	LENGTH FR-TO	
E-B	-234/0	0.0	0.0	7.81
A-B	0/28	-91.8	-91.8	10.00
B-C	-10/0	-91.8	-91.8	10.00
E-F	0/0	-18.5	-18.5	10.00
F-D	0/0	-18.5	-18.5	10.00

FACTORED CONCENTRATED LOADS (LBS)	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
JT	2-0-12	7	1	12	FRONT	VERT	TOTAL	-	C1

CONNECTION REQUIREMENTS

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 9 = 17 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

CS1: TC=0.13/1.00 (A-B-5), BC=0.04/1.00 (D-E-4), WB=0.00/1.00 (n/a-0), 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 MIN MAX MIN
 MT20 618 354 1867 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.10 (E) (INPUT = 0.90)
 JSI METAL = 0.05 (B) (INPUT = 1.00)

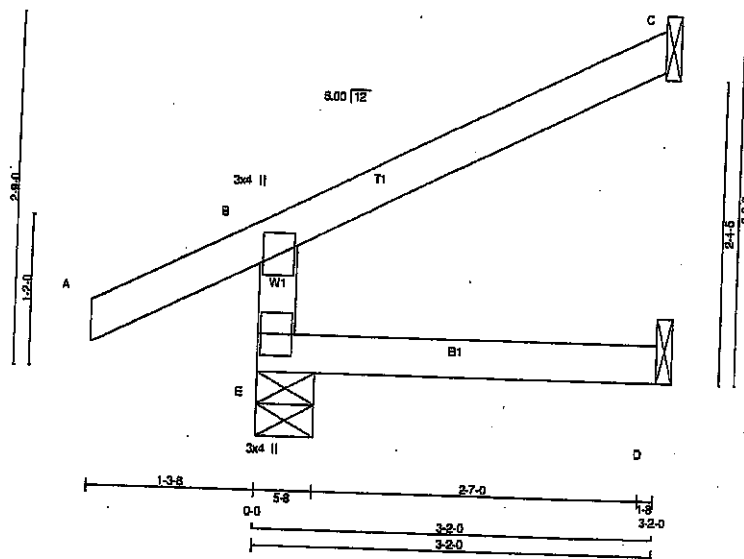


Structural component only

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408165	J32	3	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:Ovhky48Q0cPQc_Y353NoTWzlcKo-zrP8soxrbH5O16BZ5z1pyTOhVmtqUXNqY8A8zPZl

Scale = 1:16



LUMBER

N.L.G.A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	FACTORED GROSS REACTION DOWN	MAXIMUM FACTORED GROSS REACTION UP	INPUT BRG IN-SX	REQD BRG IN-SX
E	338	0	0	5-8	5-8
C	109	0	0	1-8	1-8
D	25	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	MAX. MIN. COMPONENT REACTIONS LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	237	171/0	0/0	0/0	0/0	67/0	0/0
C	75	61/0	0/0	0/0	0/0	14/0	0/0
D	20	0/0	0/0	0/0	0/0	20/0	0/0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LOAD LC1 MAX. CS1 (LC)	MAX. UNBRACED LENGTH FR-TO	WEBS	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
FR-TO							
E-B	-308/0	0.0	0.0	0.03 (4)	7.51		
A-B	0/28	-91.8	-91.8	0.13 (5)	10.00		
B-C	-16/0	-91.8	-91.8	0.16 (1)	6.25		
E-D	0/0	-18.5	-18.5	0.04 (4)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 10 = 31 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CS1: TC=0.16/1.00 (B-C:1), BC=0.04/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SS=0.13/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

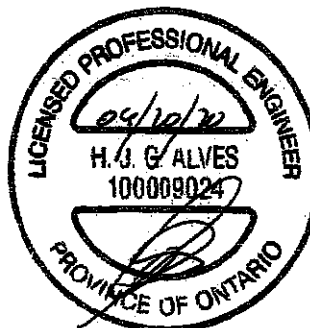
NAIL VALUES

PLATE	GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
	MAX	MIN	MAX
MT20	818	354	1667
	788	1387	1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

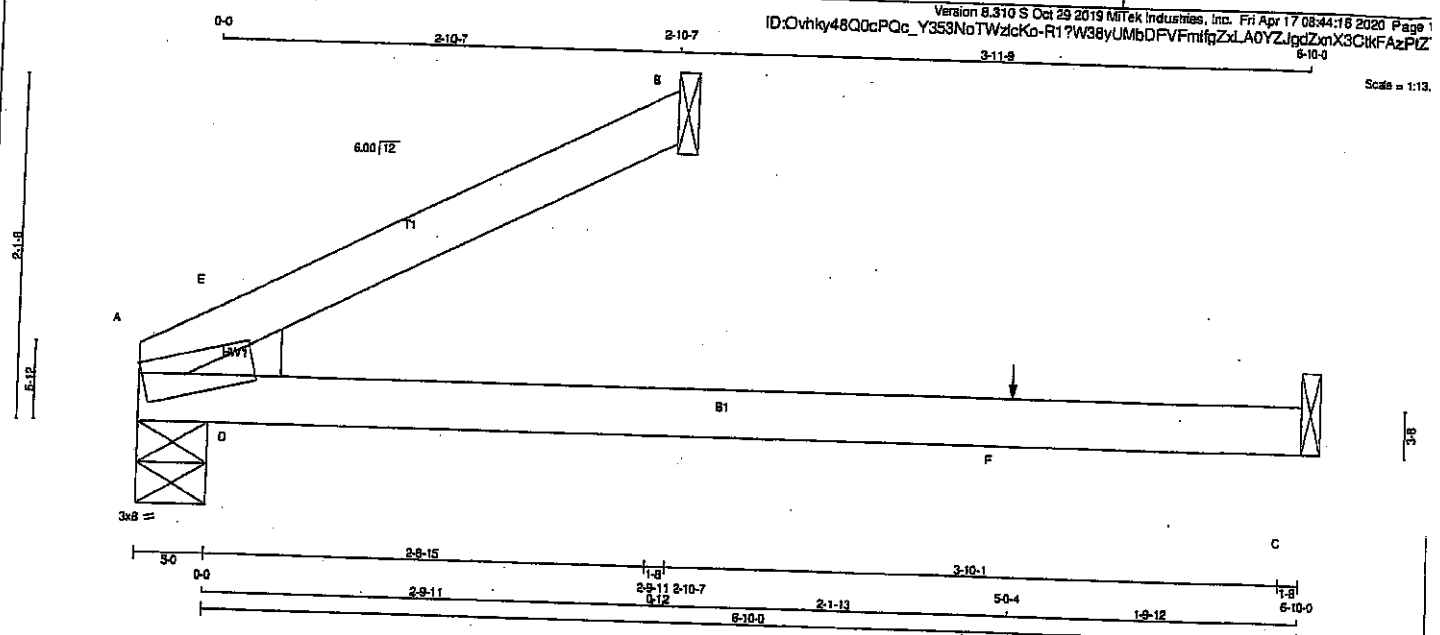
JSI GRIP = 0.13 (E) (INPUT = 0.90)
JSI METAL = 0.08 (B) (INPUT = 1.00)



JOB NAME 408165 Tamarack Road Truss, Burlington	TRUSS NAME J33	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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 6-10-0

Scale = 1:13.



LUMBER

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

DRY: SEASONED LUMBER

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A	TSMH1-m	MT20	3.0	8.0	Edge

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG		HEEL	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	WEDGE			
A	209	0	209	0	0	5-0	5-0	2x4L			
B	166	0	166	0	0	1-8	1-8				
C	60	0	61	0	0	1-8	1-8				

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

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
A	COMBINED	89/0	0/0	0/0	0/0	61/0	0/0
B		75/0	0/0	0/0	0/0	43/0	0/0
C		4/0	0/0	0/0	0/0	43/0	0/0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
		FROM TO	LENGTH				
FR-TO				FR-TO			
A-E	-113 / 0	-91.8 -91.8	0.16 (4)	6.25			
E-B	0 / 20	-91.8 -91.8	0.21 (4)	10.00	0 / 183	0.00 (1)	
A-D	0 / 0	-18.5 -18.5	0.11 (4)	10.00			
D-F	0 / 0	-18.5 -18.5	0.19 (4)	10.00			
F-C	0 / 0	-18.5 -18.5	0.19 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
F	5-0-4	1	1	FRONT	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

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

SPACING = 24.0 IN. OC

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

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

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

ALLOWABLE DEFL. (LL) = $L/360$ (0.24")
 CALCULATED VERT. DEFL. (LL) = $L/999$ (0.02")
 ALLOWABLE DEFL. (TL) = $L/360$ (0.24")
 CALCULATED VERT. DEFL. (TL) = $L/904$ (0.10")

CSI: TC=0.21/1.00 (B-E:4), BC=0.19/1.00 (C-D:4), WB=0.00/1.00 (D-E:1), SS=0.15/1.00 (A-E:4)

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

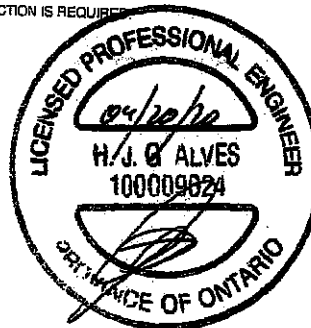
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

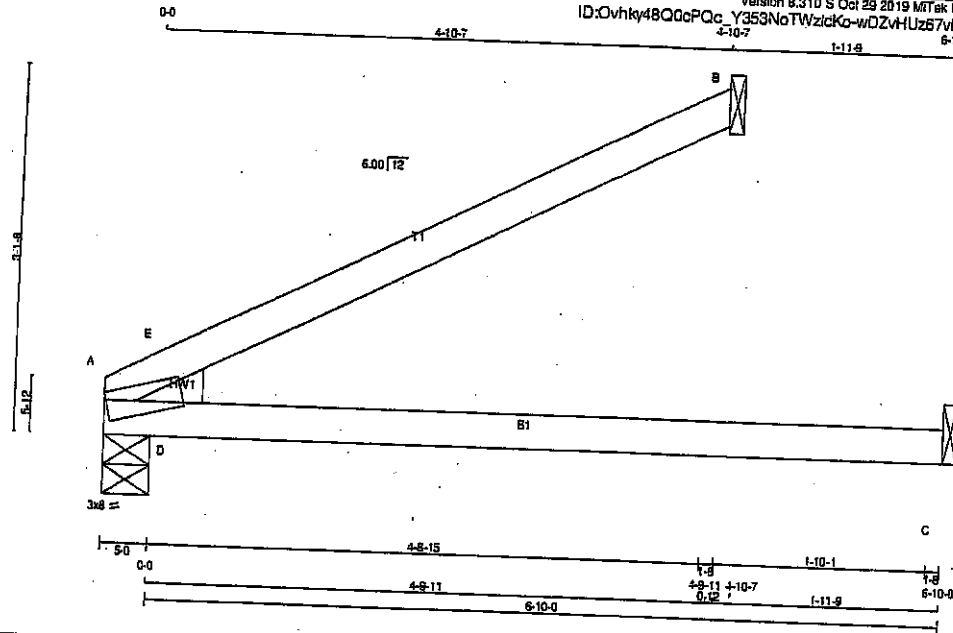
JSI GRIP = 0.07 (A) (INPUT = 0.90)
 JSI METAL = 0.01 (A) (INPUT = 1.00)



JOB NAME 408165 Tamarack Roof Truss, Burlington	TRUSS NAME J34	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Version 8.310 S Oct 29 2019 MITek Industries, Inc. Fri Apr 17 08:44:17 2020 Page 1
ID:Ovhtky48Q0cPQc_Y353NoTWzicko-wDZvHuz57vL57PLyCO4AuNZhk?5IO1glsdHndzPzZS

Scale = 1:17.



LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A	TEMH1-m	MT20	3.0	8.0	Edge

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG	HEEL WEDGE
	VERT	HORZ	DOWN	HORZ			
A	314	0	314	0	0	0	2x4 L
B	225	0	225	0	0	0	
C	80	0	80	0	0	0	

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

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	VERT	HORZ	SNOW	LIVE			
A	223	140.0	0.0	0.0	0.0	83.0	0.0
B	157	117.0	0.0	0.0	0.0	40.0	0.0
C	61	13.0	0.0	0.0	0.0	48.0	0.0

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

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.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	WEBS		MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
			FROM	TO		
A-E	-73.0	-91.8	-91.8	0.12 (4)	6.25	10.00
E-B	0.7	-91.8	-91.8	0.38 (1)	10.00	
A-D	0.0	-18.5	-18.5	0.17 (1)	10.00	
D-C	0.0	-18.5	-18.5	0.23 (1)	10.00	

TOTAL WEIGHT = 16.0

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6 PSF
DL = 6.0 PSF	
BOT. CH.	LL = 0.8 PSF
DL = 7.4 PSF	
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN./C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) =	L/360 (0.24")
CALCULATED VERT. DEFL.(LL) =	1/999 (0.08")
ALLOWABLE DEFL.(TL) =	L/360 (0.24")
CALCULATED VERT. DEFL.(TL) =	1/455 (0.19")

CSI: TC=0.38/1.00 (B-E:1), BC=0.23/1.00 (C-D:1), WB=0.00/1.00 (D-E:1), SS=0.18/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

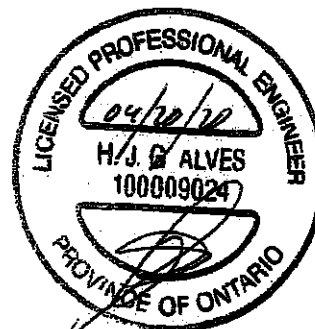
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT

NAIL VALUES	PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
	MAX	MIN	MAX MIN
MT20	618	354	1667 788 1987 1666

PLATE PLACEMENT TOL = 0.250 inches

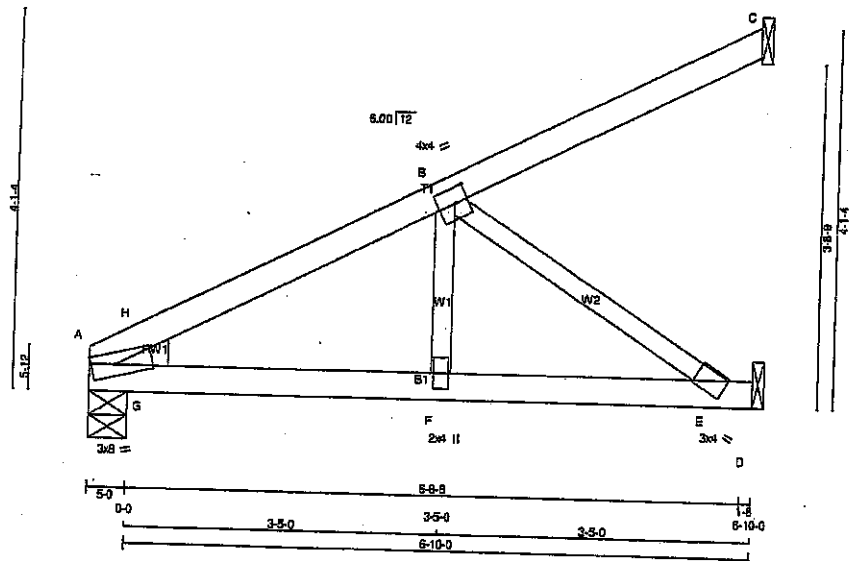
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.15 (A) (INPUT = 0.80)
JSI METAL= 0.02 (A) (INPUT = 1.00)



JOB NAME 408165	TRUSS NAME J35	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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 ID:Ovhky48Q0cPQc_Y353NoTWzicK0-QQ7HUqzkuCuzkZw8m5bPQb5wZ6U1pBqXWMqJ3zPzF
 0-0 3-5-0 3-5-0 3-5-0 6-10-0
 Scale = 1:22



LUMBER

N.L.G.A. RULES

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

ALL WEBS 2x3 DRY
 DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TBMH1-m	MT20	3.0	8.0		Edge
B	TBMW-I	MT20	4.0	4.0	2.00	1.75
E	BMW-w	MT20	3.0	4.0		
F	BMW-w	MT20	2.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG	HEEL WEDGE
A	400	400	5-0	5-0	2x4 L
C	125	125	1-8	1-8	
D	275	275	1-8	1-8	

SEE MITEK STANDARD DETAIL 89791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
A	COMBINED	185.0	0.0	0.0	0.0	97.0	0.0
C		58.0	0.0	0.0	0.0	17.0	0.0
D		118.0	0.0	0.0	0.0	80.0	0.0

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

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

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

LOADING
 TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)	
FR-TO		FROM TO		FR-TO			
A-H	-517.0	-91.8 -91.8	0.02 (1)	6.25	F-B	0	147
H-B	-461.0	-91.8 -91.8	0.12 (1)	6.25	B-E	-518.0	0.13 (1)
B-C	-14.0	-91.8 -91.8	0.11 (1)	6.25	G-H	-61.16	0.00 (1)
A-G	0.424	-18.5 -18.5	0.13 (1)	10.00			
G-F	0.424	-18.5 -18.5	0.14 (1)	10.00			
F-E	0.424	-18.5 -18.5	0.24 (1)	10.00			
E-D	0.0	-18.5 -18.5	0.17 (1)	10.00			

TOTAL WEIGHT = 3 X 23 = 66 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:
 - PART 9 OF CBC 2010, 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 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.24")
 CALCULATED VERT. DEFL.(LL) = L/989 (0.01")
 ALLOWABLE DEFL.(TL) = L/360 (0.24")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.12/1.00 (B-H:1), SC=0.24/1.00 (E-F:1), WB=0.13/1.00 (B-E:1), SS=0.21/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

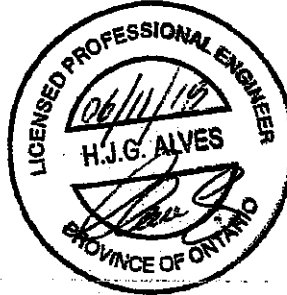
NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
 MAX MIN MAX MIN MAX MIN
 MT20 518 354 1657 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.35 (E) (INPUT = 0.90)
 JSI METAL= 0.19 (E) (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 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-1800218

Feb 09, 2018

LUL/LUS/LJS/HUS/HHUS/HGUS



Standard and Double-Shear Joist Hangers



This product is preferable to similar connectors because of
a) easier installation, b) higher capacities, c) lower installed
cost, or a combination of these features.

Most hangers in this series have double-shear nailing — an innovation that distributes the load through two points on each joist nail for greater strength. This allows for fewer nails, faster installation, and the use of all common nails for the same connection. (Do not bend or remove tabs)

Double-shear hangers range from the light capacity LUS hangers to the highest capacity HGUS hangers. For medium load truss applications, the HUS offers a lower cost alternative and easier installation than the HGUS hangers, while providing greater load capacity and bearing than the LUS.

Material: See table on pp. 258–259.

Finish: Galvanized. Some products available in stainless steel or ZMAX® coating; see Corrosion Information, pp.20–24.

Installation:

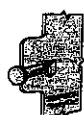
- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for welded or nailer applications.
- With single ply 2x carrying members, use 10d x 1½" nails into the header and 10d commons into the joist, and reduce the resistance to 0.64 of the table value where 16d nails are specified and 0.77 where 10d nails are specified.

Options:

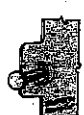
- LUS, LJS, LUL and HUS hangers cannot be modified.
- Other sizes available; consult your Simpson Strong-Tie representative.
- See Hanger Options information on p. 126.



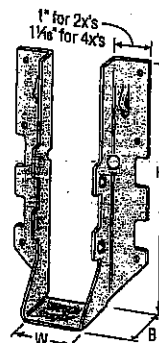
Double-Shear Nailing Top View



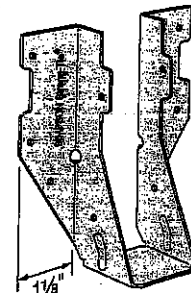
Double-Shear Nailing Side View; Do not bend tab



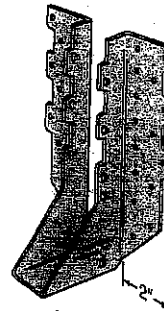
Dome Double-Shear Nailing Side View (available on some models)
U.S. Patent 5,603,580



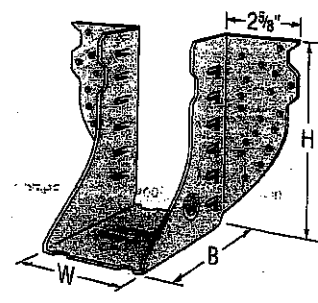
✓ LUS28



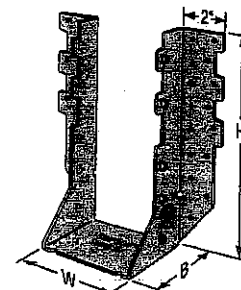
LU26L



✓ HUS210
(HUS26, HUS28, and HHUS similar)

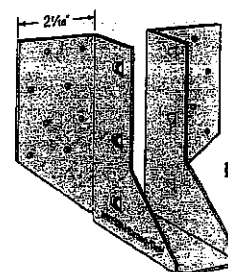
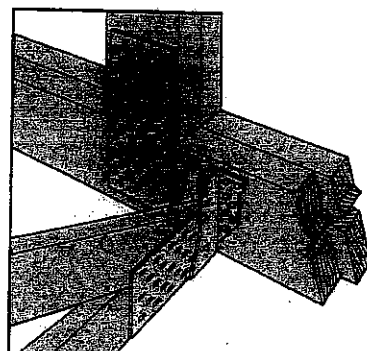


✓ HGUS28-2



✓ HHUS210-2

Typical HUS26
Installation
with Reduced
Heel Height
(Truss Designer
to provide
fastener quantity
for connecting
multiple members
together)



LJS26DS

LUL/LUS/LJS/HUS/HHUS/HGUS

HHUS/HGUS

See Hanger Options information on pp. 125–127.

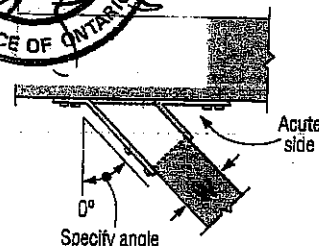
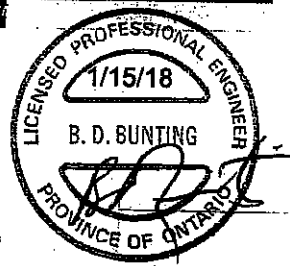
HHUS — Sloped and/or Skewed Seat

- HHUS hangers can be skewed to a maximum of 45° and/or sloped to a maximum of 45°
- For skew only, maximum factored down resistance is 0.85 of the table value
- For sloped only or sloped and skewed hangers, the maximum factored down resistance is 0.72 of the table value
- Uplift resistances for sloped/skewed conditions are 0.62 of the table value
- The joist must be bevel-cut to allow for double-shear nailing

HGUS — Skewed Seat

- HGUS hangers can be skewed to a maximum of 45°. Factored resistances are:

HGUS Seat Width	Joist	Down Resistance	Uplift
$W < 2"$	Bevel or square cut	0.62 of table value	0.46 of table value
$2" < W < 6"$	Bevel cut	0.67 of table value	0.41 of table value
$2" < W < 6"$	Square cut	0.46 of table value	0.41 of table value
$W > 6"$	Bevel cut	0.75 of table value	0.41 of table value



Top View HHUS Hanger
Skewed Right
(joist must be bevel cut)
All joist nails installed on the
outside angle (non-acute side).

Standard and Double-Shear Joist Hangers (cont.)

These products are available with additional corrosion protection. For more information, see p. 24.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32–34 for more information.

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance			
		W	H	B	d_g^3	Header	Joist	Down		Uplift	
								Normal	Normal	Normal	Normal
								($K_D = 1.15$)	($K_D = 1.00$)	($K_D = 1.15$)	($K_D = 1.00$)
								lb.	lb.	lb.	lb.
								kN	kN	kN	kN
Single 2x Sizes											
LUS24	18	1 1/8	3 1/4	1 1/4	2 1/4	(4) 10d	(2) 10d	710	1625	645	1155
LU24L	22	1 1/8	3	1 1/4	2 1/4	(4) 10d	(2) 10d x 1 1/2"	360	1020	320	725
LU26L	22	1 1/8	5	1 1/4	4 1/4	(6) 10d	(4) 10d x 1 1/2"	720	1605	645	1140
LUS26	18	1 1/8	4 3/4	1 3/4	3 3/4	(4) 10d	(4) 10d	1420	2170	1290	1630
HUS26	16	1 1/8	5 1/4	3	3 1/4	(14) 16d	(6) 16d	2705	4940	2065	3875
LJS26DS	18	1 1/8	5	3 1/4	4 1/4	(16) 16d	(6) 16d	2055	4265	1460	4115
HGUS26	12	1 1/8	5 1/4	5	4 1/4	(20) 16d	(8) 16d	2685	6625	2685	5700
LU28L	20	1 1/8	6 1/4	1 1/4	5 1/4	(8) 10d	(6) 10d x 1 1/2"	1140	2185	1020	1550
LUS28	18	1 1/8	6 1/4	1 1/4	3 3/4	(6) 10d	(4) 10d	1420	2520	1290	1790
HUS28	16	1 1/8	7 1/4	3	6 1/4	(22) 16d	(8) 16d	3605	5365	2675	4345
HGUS28	12	1 1/8	7 1/4	5	6 1/4	(36) 16d	(12) 16d	3310	7675	3310	6900
LU210L	20	1 1/8	8	1 1/4	7 1/4	(10) 10d	(6) 10d x 1 1/2"	1140	2495	1020	1770
LUS210	18	1 1/8	7 1/4	1 1/4	3 3/4	(8) 10d	(4) 10d	1420	2785	1290	2210

- Factored uplift resistances have been increased 15% for wind or earthquake loading; no further increase is allowed.
- Designer must ensure that hanger is compatible with truss when reduced heel height is used.
- d_g is the distance from the bearing seat to the top joist nail.
- Resistances shown require a minimum 2-ply girder truss. For fastening to single-ply truss request technical bulletin T-C-N10TRSSCN and/or see installation notes.
- Nails: 16d = 0.162" dia. x 3 1/2" long. See pp. 27–28 for other nail sizes and information.

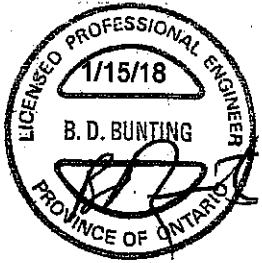
Face-Mount Hangers

SIMPSON
Strong-Tie

These products are available with additional corrosion protection. For more information, see p. 24.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32–34 for more information.

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance			
		W	H	B	d _o ³	Header	Joist	D.Fir-L		S-P-F	
								Uplift	Normal	Uplift	Normal
								(K _D = 1.15)	(K _D = 1.00)	(K _D = 1.15)	(K _D = 1.00)
								lb.	lb.	lb.	lb.
								kN	kN	kN	kN
Double 2x Sizes											
LUS24-2	18	3 1/4	3 1/4	2	1 1/2	(4) 16d	(2) 16d	835	2020	590	1435
SS LUS26-2	18	3 1/4	4 1/4	2	4	(4) 16d	(4) 16d	3.71	8.99	2.62	6.38
HHUS26-2	14	3 1/4	5 1/4	3	3 1/4	(14) 16d	(6) 16d	1720	2595	1545	1920
HGUS26-2	12	3 1/4	5 1/4	4	4 1/4	(20) 16d	(8) 16d	7.65	11.54	6.87	8.54
SS LUS28-2	18	3 1/4	7	2	4	(6) 16d	(4) 16d	2850	7335	2065	5205
HHUS28-2	14	3 1/4	7 1/4	3	6 1/4	(22) 16d	(8) 16d	12.68	32.63	9.20	23.15
HGUS28-2	12	3 1/4	7 1/4	4	6 1/4	(36) 16d	(12) 16d	4385	8950	3110	6355
SS LUS210-2	18	3 1/4	9	2	6	(8) 16d	(6) 16d	19.51	39.81	13.83	28.27
HHUS210-2	14	3 1/4	9 1/4	3	8	(30) 16d	(10) 16d	1720	3325	1545	2575
HGUS210-2	12	3 1/4	9 1/4	4	8 1/4	(46) 16d	(16) 16d	7.65	14.79	6.87	11.45
								3765	8940	2675	6345
								16.75	39.77	11.90	28.22
								6070	12980	4310	9215
								27.00	57.74	19.17	40.99
SS LUS210-2	18	3 1/4	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
HHUS210-2	14	3 1/4	9 1/4	3	8	(30) 16d	(10) 16d	11.48	20.02	10.32	14.21
HGUS210-2	12	3 1/4	9 1/4	4	8 1/4	(46) 16d	(16) 16d	4670	9660	4235	7000
								20.77	42.97	18.84	31.14
								6840	14015	4855	10270
								30.43	62.34	21.60	45.69
Triple 2x Sizes											
HGUS26-3	12	4 1/4	5 1/4	4	4 1/4	(20) 16d	(8) 16d	4385	8950	3110	6355
								19.51	39.81	13.83	28.27
HGUS28-3	12	4 1/4	7 1/4	4	6 1/4	(36) 16d	(12) 16d	6070	12980	4310	9215
								27.00	57.74	19.17	40.99
HHUS210-3	14	4 1/4	9	3	7 1/4	(30) 16d	(10) 16d	4670	9660	4235	7000
								20.77	42.97	18.84	31.14
HGUS210-3	12	4 1/4	9 1/4	4	8 1/4	(46) 16d	(16) 16d	6840	14015	4855	10270
								30.43	62.34	21.60	45.69
Quadruple 2x Sizes											
HGUS26-4	12	6 1/4	5 1/4	4	4 1/4	(20) 16d	(8) 16d	4385	8950	3110	6355
								19.51	39.81	13.83	28.27
HGUS28-4	12	6 1/4	7 1/4	4	6 1/4	(36) 16d	(12) 16d	6070	12980	4310	9215
								27.00	57.74	19.17	40.99
HHUS210-4	14	6 1/4	9	3	7 1/4	(30) 16d	(10) 16d	4670	9660	4235	7000
								20.77	42.97	18.84	31.14
HGUS210-4	12	6 1/4	9 1/4	4	8 1/4	(46) 16d	(16) 16d	6840	14015	4855	10270
								30.43	62.34	21.60	45.69
HGUS212-4	12	6 1/4	10 1/4	4	10 1/4	(56) 16d	(20) 16d	7640	14995	5425	10645
								33.98	66.70	24.13	47.35
HGUS214-4	12	6 1/4	12 1/4	4	11 1/4	(66) 16d	(22) 16d	10130	16400	7195	11645
								45.06	72.95	32.00	51.80
4x Sizes											
LUS46	18	3 1/4	4 1/4	2	3 1/4	(4) 16d	(4) 16d	1720	2595	1545	1920
								7.65	11.54	6.87	8.54
HHUS46	14	3 1/4	5 1/4	3	3 1/4	(14) 16d	(6) 16d	2540	7335	2065	5205
								11.30	32.63	9.20	23.15
HGUS46	12	3 1/4	5 1/4	4	4 1/4	(20) 16d	(8) 16d	4385	8950	3110	6355
								19.51	39.81	13.83	28.27
LUS48	18	3 1/4	6 1/4	2	3 1/4	(6) 16d	(4) 16d	1720	3325	1545	2575
								7.65	14.79	6.87	11.45
HHUS48	14	3 1/4	7 1/4	3	6 1/4	(22) 16d	(8) 16d	3765	8940	2675	6345
								16.75	39.77	11.90	28.22
HGUS48	12	3 1/4	7 1/4	4	6 1/4	(36) 16d	(12) 16d	6070	12980	4310	9215
								27.00	57.74	19.17	40.99
LUS410	18	3 1/4	8 1/4	2	5 1/4	(8) 16d	(6) 16d	2580	4500	2320	3195
								11.48	20.02	10.32	14.21
HGUS410	12	3 1/4	9	4	8 1/4	(46) 16d	(16) 16d	6840	14015	4855	10270
								30.43	62.34	21.60	45.69
HGUS412	12	3 1/4	10 1/4	4	10 1/4	(56) 16d	(20) 16d	7640	14995	5425	10645
								33.98	66.70	24.13	47.35
HGUS414	12	3 1/4	12 1/4	4	11 1/4	(66) 16d	(22) 16d	10130	16400	7195	11645
								45.06	72.95	32.00	51.80



Plated Truss Connectors

See footnotes
on p. 258.

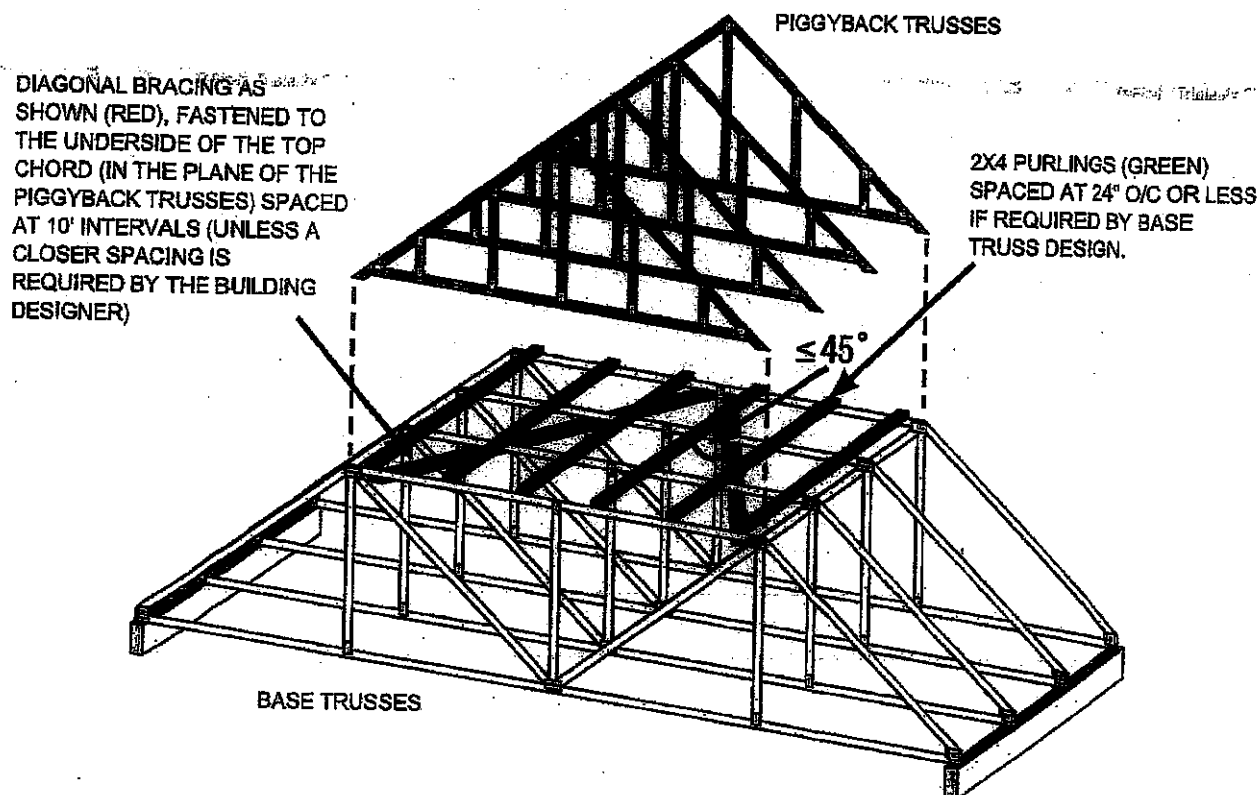
TN 15-001
Piggyback Bracing

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.

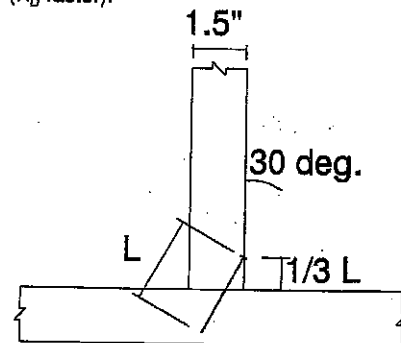
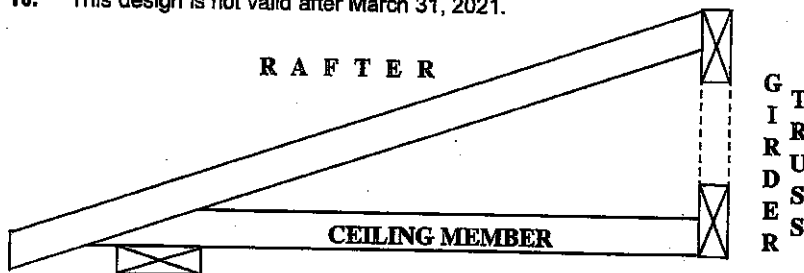
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B97791H1

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

NOTES:

1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.4.1.
3. For 9-3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in tables below.
5. Nail values in table are based on the following relative lumber densities: G = 0.42 (SPF), G = 0.49 (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See next page for nailing on bearing plate).
7. For loads due to **wind** the nail lateral capacity in this table may be multiplied by 1.15 (K_D factor).
8. Lumber must be dry (< 19% moisture content) at the time of nail installation.
9. Nail values in this table comply with CSA O86-14, section 12.9.4
10. This design is not valid after March 31, 2021.



TOE-NAIL INSTALLATION

Nail type	Common wire	Common spiral	Common wire	Common spiral
Nail dia. (in)	0.160	0.152	0.144	0.122
	(3.5" nail)		(3" and 3.25" nail)	
LUMBER SIZE	MAXIMUM NUMBER OF TOE-NAILS			
2X4 SPF	2	2	3	3
2X4 D. Fir	2	2	2	2
2X6 SPF	4	4	4	5
2X6 D. Fir	3	3	3	4

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BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

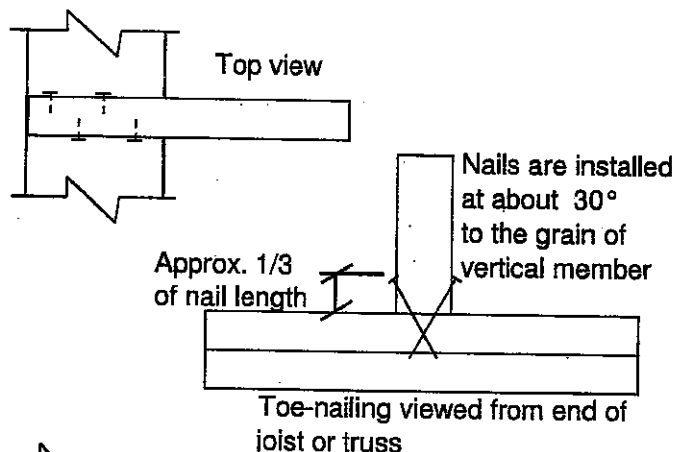
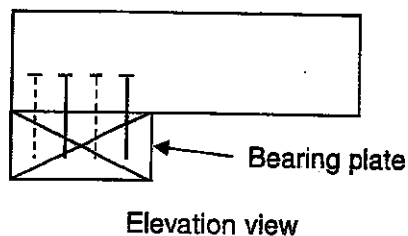
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52
COMMON SPIRAL	3.00	0.122	26	36
	3.25	0.122	28	40
	3.50	0.152	36	50

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

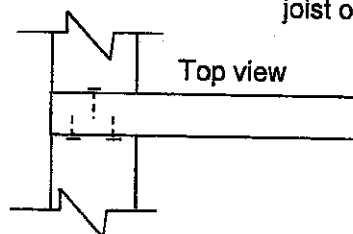
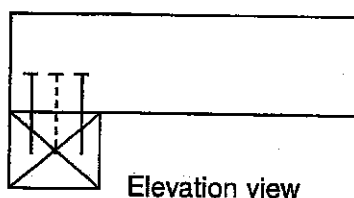
NOTES:

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

Toe-nailing on 2x6 Bearing Plate

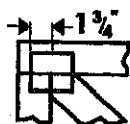


Toe-nailing on 2x4 Bearing Plate

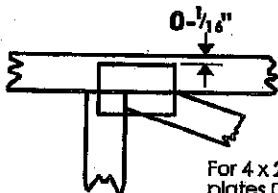


Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 x 4

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

LATERAL BRACING LOCATION



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

BEARING

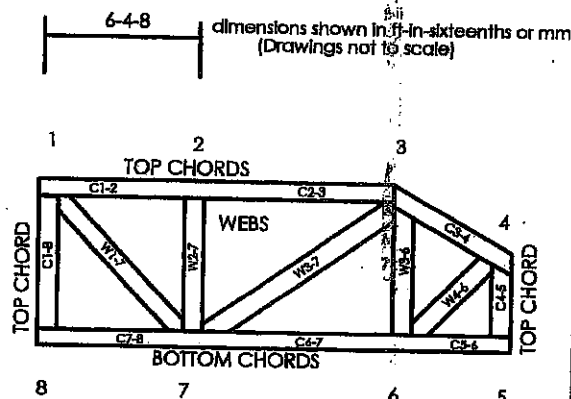


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

TPIC: Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

CCMC Reports:

11996-L, 10319-L, 13270-L, 12691-R

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MiTek Engineering Reference Sheet: MI-7473C rev. 10-108

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.