

32-09-00

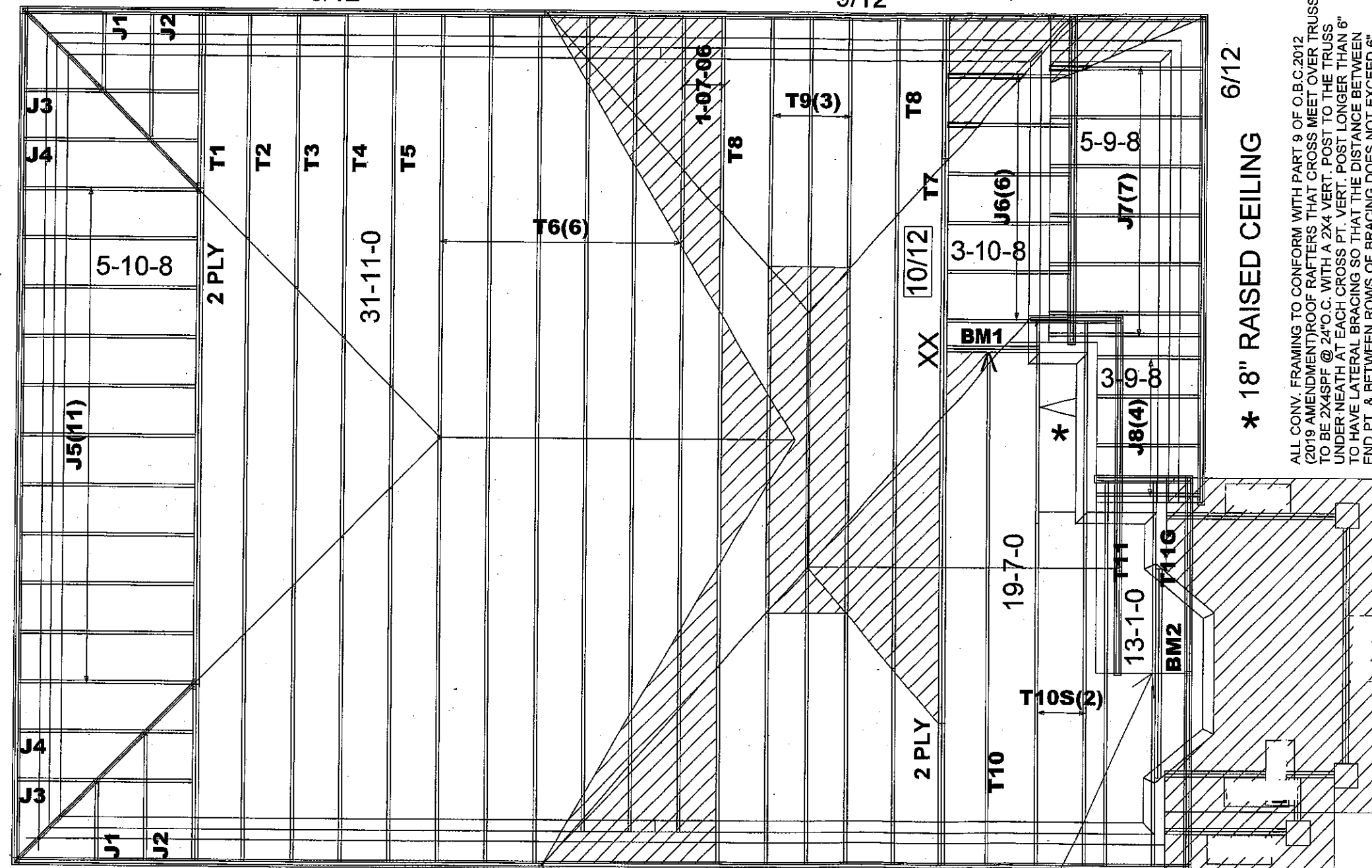
47-00-00

41-07-00

2-00-00 2-11-00 8-00-00

6/12

9/12



* 18" RAISED CEILING

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

HARDWARE:
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, BM2 = 2-2X10

CITY OF HAMILTON
Building Division

187704

Permit No.

THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE

M13108



Job Track: 51225
Plan Log: 202400
Layout ID: 408146

Builder / Location:
GREEN PARK HOMES / WATERDOWN

Project: RUSSELL GARDENS PH.3

Date: 2020-04-14 Sales: Mario DiCano

Model / Elevation:
VALLEYCREEK 2/1

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.

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

FOR CHIEF BUILDING OFFICIAL

DATE

Permit No. 20-187704-02

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

CHIEF BUILDING OFFICIAL

DATE 8/10/21
ASPHALT SHINGLES
12" FINISHED OH.
R.T.M.C.
2X6 EXTERIOR WALLS
2X6 FASCIA BOARD

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

DENOTES
CONV.
FRAMING

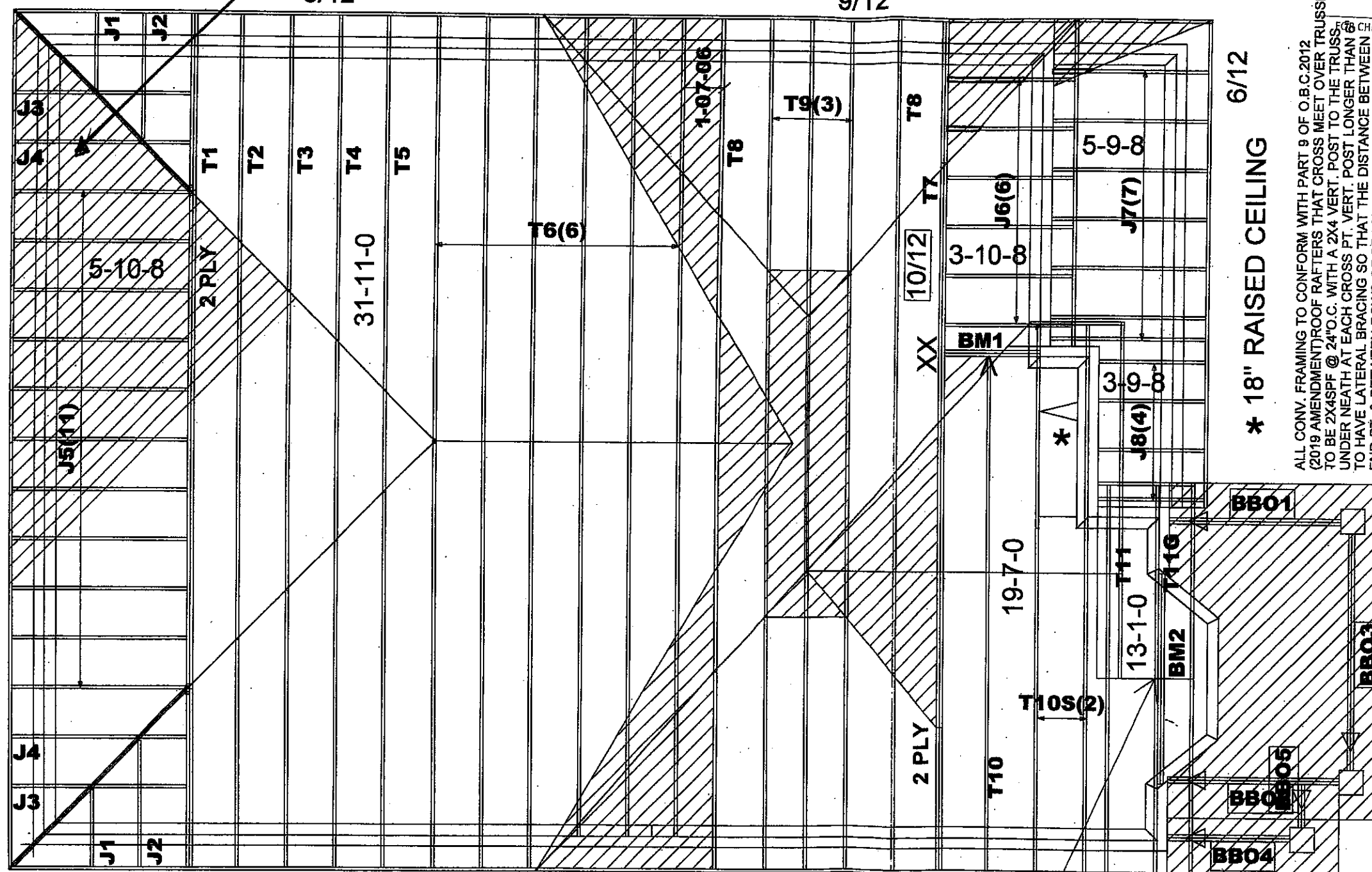
DESIGN CONFORMS
WITH O.B.C.2012 PART 9
(2019 AMENDMENT)
DESIGN LOADS:
SNOW LOAD 25.6 PSF
TC DEAD 6 PSF
BC LIVE 0 PSF
BC DEAD 7.4 PSF

BM1, BM2 = 2-2X10

NO CHANGES TO TRUSSES

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 TRUSSES
 UNDER NEATH AT EACH CROSS PT. VERT. POST LONGER THAN 8'
 TO HAVE LATERAL BRACING SO THAT THE DISTANCE BETWEEN
 END PT. & BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'

* 18" RAISED CEILING



NAIL BOTTOM CHORD OF T11G TO BM2
 USING 3 1/2" SPIRAL NAILS @ 4" C.C.



Job Track: 51225
 Plan Log: 202400
 Layout ID: 408146

Builder / Location:
GREEN PARK HOMES / WATERDOWN
 Project: **RUSSELL GARDENS PH. 4**
 Date: 2021-03-31 Sales: Mario DiCano Designer: C.J.G.

Model / Elevation:

VALLEYCREEK 2/1 (+ WALKOUT CONDITION + REAR UPGRADE)

Mitek ver 8.4.2.286

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.

32-09-00

47-00-00

Rear
 upgrade
 6/12

41-07-00

2-00-00 2-11-00

8-00-00

9/12

1-07-06

T9(3)

T8

5-9-8

J6(6)

J7(7)

3-10-8

BM1

3-9-8

J8(4)

19-7-0

T10S(2)

T10

BBO1

BM2

T11G

BBO2

BBO3

BBO4

12-04-00

18-10-00

6-06-00

13-11-00

11-07-00

2-04-00

46-06-00

6-00-00 2-00-00

M13108

32-09-00

47-00-00

41-07-00

2-00-00 4-11-00

6-00-00

6/12

9/12

6/12

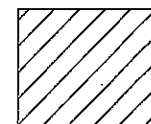
* 18" RAISED CEILING

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)
LUS26-2 - (VV)
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, BM2 = 2-2X10
CITY OF HAMILTON
Building Division

CATHEDRAL CEILING
INSIDE PITCH 6/12

Permit No. 187704

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

FOR CHIEF BUILDING OFFICIAL

DATE



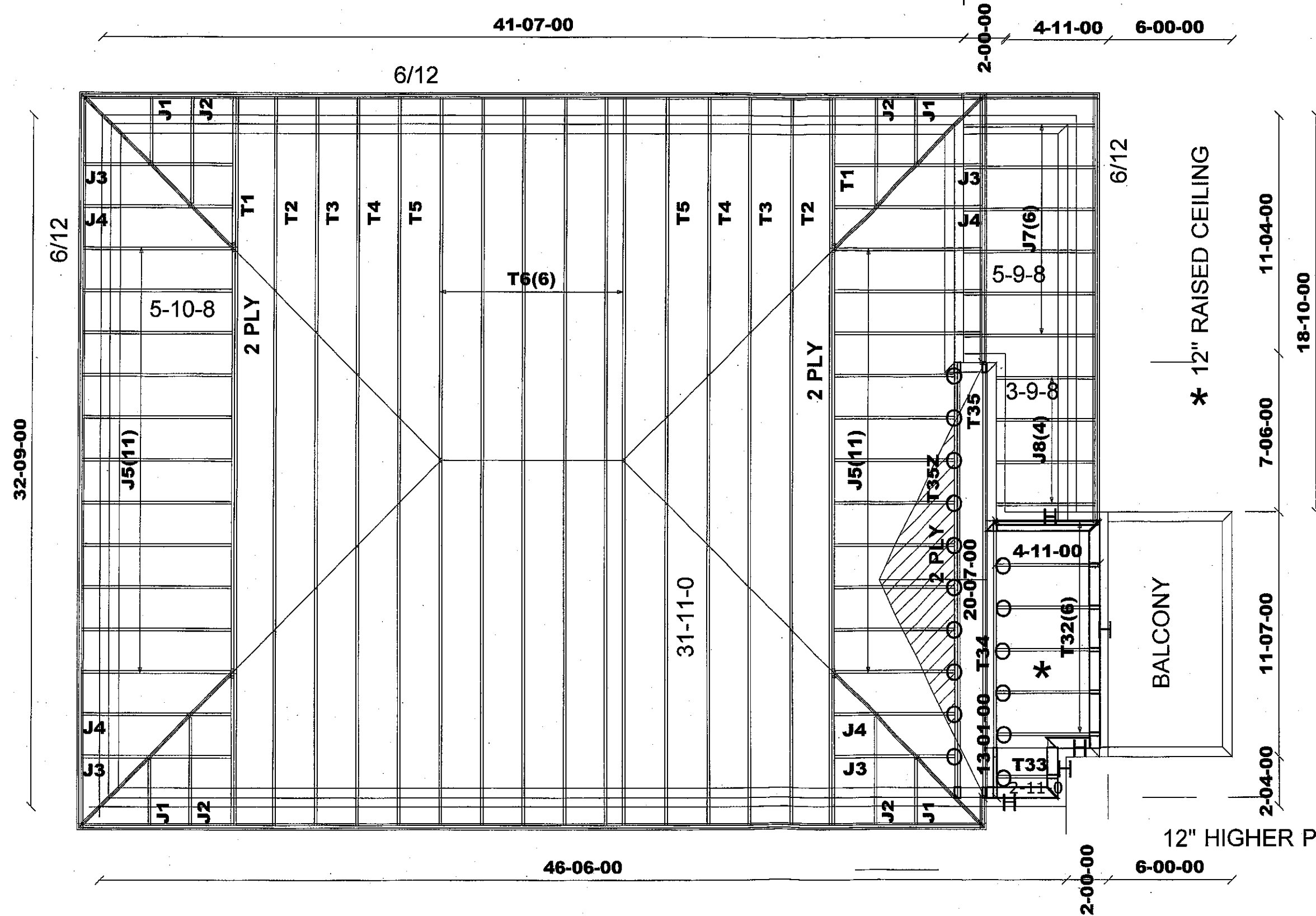
Job Track: 51225
Plan Log: 202400
Layout ID: 408147

Builder / Location:
GREEN PARK HOMES / WATERDOWN
Project: **RUSSELL GARDENS PH.3**
Date: 2020-04-14 Sales: **Mario DiCaro**

Model / Elevation:
VALLEYCREEK 2/2

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.

M13108



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

HARDWARE:
 LUS24 - (O)

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

M13108



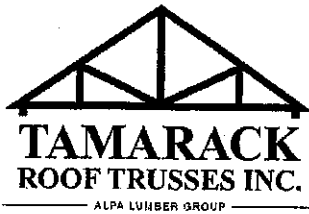
Job Track: 51225
 Plan Log: 202400
 Layout ID: 408148

Builder / Location:
GREEN PARK HOMES / WATERDOWN
 Project: **RUSSELL GARDENS PH.3**
 Date: 2020-04-14 Sales: Mario DiCano Designer: AC JG

Model / Elevation:
VALLEYCREEK 2/3

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.

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
 CITY OF HAMILTON Building Division
 Permit No. 187704
 DATE



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH.3
 Location: WATERDOWN
 Model: VALLEYCREEK 2
 Lot #:
 Elevation: 1

Job Track: 51225
 PlanLog: 202400
 Layout ID: 408146
 Ref #
 Page: 1 of 2
 Date: 04-14-2020
 Designer: Andrew Conway
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T1 Hip Girder	6 /12	31-11-00	4-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	249.19 157.33		
	1	T2 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	T3 Hip	6 /12	31-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	129.12 80.87		
	1	T4 Hip	6 /12	31-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	135.61 84.17		
	1	T5 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		
	6	T6 Hip	6 /12	31-11-00	9-01-12	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	775.42 485.00		
	1 2-ply	T7 Hip Girder	9 /12	31-11-00	4-10-07	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	299.84 188.33		
	2	T8 Hip	9 /12	31-11-00	6-06-07	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	276.62 173.87		
	3	T9 Hip	9 /12	31-11-00	8-02-07	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	451.1 285.00		
	1	T10 Common	9 /12	19-07-00	9-07-06	2 x 4	1-03-08	1-06-04 3-00-04	94.29 60.83		
	2	T10S Roof Special Structural Gable	9 /12	19-07-00	9-07-06	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	203.73 127.33		
	1	T11 Common	9 /12	13-01-00	6-05-02	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	59.69 39.67		
	1	T11G GABLE	9 /12	13-01-00	6-05-02	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	60.56 40.67		
	2	J1 Jack-Open	6 /12	1-09-07	2-00-12	2 x 4	1-03-08 1-01	1-02-00 2-00-12	14.04 9.33		



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH.3
 Location: WATERDOWN
 Model: VALLEYCREEK 2
 Lot #:
 Elevation: 1

Job Track: 51225
 PlanLog: 202400
 Layout ID: 408146
 Ref #
 Page: 2 of 2
 Date: 04-14-2020
 Designer: Andrew Conway
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	2	J2 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	19.14 12.00		
	2	J3 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		
	2	J4 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	J5 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	184.74 117.33		
	6	J6 Jack-Open	10 /12	3-10-08	4-10-07	2 x 4	1-03-08	1-07-11 4-10-07	93.44 61.00		
	7	J7 Jack-Open	6 /12	5-10-00	3-10-11	2 x 4	1-03-08	4-03 2-10-03	111.31 70.00		
	4	J8 Jack-Open	6 /12	3-09-08	2-10-07	2 x 4	1-03-08	4-03 1-10-03	46.54 29.33		

TOTAL # TRUSS= 60

TOTAL BFT OF ALL TRUSSES= 2216.99 BFT.

TOTAL WEIGHT OF ALL TRSSES 3516.61 LBS

HARDWARE

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

TOTAL NUMBER OF
ITEMS= 2



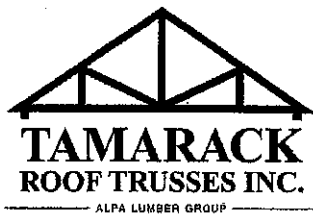
DELIVERY SHIPLIST

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

Job Track: 51225
 PlanLog: 202400
 Layout ID: 408147
 Ref #
 Page: 1 of 2
 Date: 04-14-2020
 Designer: Andrew Conway
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T1 Hip Girder	6/12	31-11-00	4-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	249.19 157.33		
	1	T2 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	T3 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	T4 Hip	6/12	31-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	135.61 84.17		
	1	T5 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		
	6	T6 Hip	6/12	31-11-00	9-01-12	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	775.42 485.00		
	1 2-ply	T7 Hip Girder	9/12	31-11-00	4-10-07	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	296.99 183.00		
	2	T8 Hip	9/12	31-11-00	6-06-07	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	276.62 173.67		
	3	T9 Hip	9/12	31-11-00	8-02-07	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	451.1 285.00		
	1	T21S Hip Girder	9/12	19-07-00	4-08-07	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	89.33 59.83		
	1	T22 Hip	9/12	19-07-00	6-04-07	2 x 4	1-03-08	1-06-04 3-00-04	91.27 57.83		
	1	T23 Hip Girder	9/12	13-01-00	4-00-07	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	66.9 44.33		
	3	T24S Scissor	9/12 6/12	10-09-00	5-06-10	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	140.17 94.50		
	2	J1 Jack-Open	6/12	1-09-07	2-00-12	2 x 4	1-03-08 1-01	1-02-00 2-00-12	14.04 9.33		



DELIVERY SHIPLIST

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

Job Track: 51225
 PlanLog: 202400
 Layout ID: 408147
 Ref #
 Page: 2 of 2
 Date: 04-14-2020
 Designer: Andrew Conway
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	2	J2 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	19.14 12.00		
	2	J3 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		
	2	J4 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	J5 Jack-Open	6/12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	184.74 117.33		
	6	J6 Jack-Open	10/12	3-10-08	4-10-07	2 x 4	1-03-08	1-07-11 4-10-07	93.44 61.00		
	7	J7 Jack-Open	6/12	5-10-00	3-10-11	2 x 4	1-03-08	4-03 2-10-03	111.31 70.00		
	4	J8 Jack-Open	6/12	3-09-08	2-10-07	2 x 4	1-03-08	4-03 1-10-03	46.54 29.33		
	4	J21 Jack-Open	10/12	1-10-08	3-02-07	2 x 4	1-03-08	1-07-11 3-02-07	40.49 28.00		
	1	J22 Jack-Open	10/12	2-10-08	4-00-07	2 x 4	1-03-08	1-07-11 4-00-07	13.45 8.83		
	6	J23 Jack-Open	4/12	6-04-08	2-10-06	2 x 4	1-03-08	3-15 2-02-04	99.67 64.00		

TOTAL # TRUSS= 72

TOTAL BFT OF ALL TRUSSES= 2300.48

BFT.

TOTAL WEIGHT OF ALL TRSSES 3636.68 LBS

HARDWARE

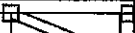
QTY	TYPE	MODEL	LENGTH
1	Hardware	LJS26DS	
1	Hardware	LUS24	
2	Hardware	HGUS26-2	

TOTAL NUMBER OF
ITEMS=

4

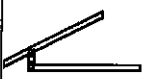
DELIVERY SHIPLIST				
 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	Lumber Yard:	TAMARACK LUMBER	Job Track:	51225
	Builder:	GREEN PARK HOMES	PlanLog:	202400
	Project:	RUSSELL GARDENS PH.3	Layout ID:	408148
	Location:	WATERDOWN	Ref #	
	Model:	VALLEYCREEK 2	Page:	1 of 2
	Lot #:		Date:	04-14-2020
	Elevation:	3	Designer:	Andrew Conway
		Sales Rep:	Mario DiCano	

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	2 2-ply	T1 Hip Girder	6/12	31-11-00	4-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	498.39 314.67		
	2	T2 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	T3 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	T4 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	T5 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		
	6	T6 Hip	6/12	31-11-00	9-01-12	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	775.42 485.00		
	6	T32 Flat	0/12	4-11-00	2-06-00	2 x 4		2-06-00 2-06-00	116.66 71.00		
	1	T33 Flat	0/12	2-11-00	1-06-00	2 x 4		1-06-00 1-06-00	10.78 6.83		
	1	T34 Roof Special Girder	0/12	13-01-00	2-06-00	2 x 4		1-06-00 2-06-00	51.97 33.00		
	1	T35 Common	3/12	20-07-00	3-00-06	2 x 4 2 x 6		5-08 5-08	72.66 45.17		
	1 2-ply	T35Z Common Girder	3/12	20-07-00	3-00-06	2 x 4 2 x 6		5-08 5-08	147.26 93.00		
	4	J1 Jack-Open	6/12	1-09-07	2-00-12	2 x 4	1-03-08 1-01	1-02-00 2-00-12	28.08 18.67		
	4	J2 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	38.28 24.00		
	4	J3 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	46.33 29.33		

 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP		DELIVERY SHIPLIST			
		Lumber Yard: TAMARACK LUMBER Builder: GREEN PARK HOMES Project: RUSSELL GARDENS PH.3 Location: WATERDOWN Model: VALLEYCREEK 2 Lot #: Elevation: 3		Job Track: 51225 PlanLog: 202400 Layout ID: 408148 Ref # Page: 2 of 2 Date: 04-14-2020 Designer: Andrew Conway Sales Rep: Mario DiCano	

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	4	J4 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	56.53 34.67		
	22	J5 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	369.48 234.67		
	6	J7 Jack-Open	6 /12	5-10-00	3-10-11	2 x 4	1-03-08	4-03 2-10-03	95.41 60.00		
	4	J8 Jack-Open	6 /12	3-09-08	2-10-07	2 x 4	1-03-08	4-03 1-10-03	46.54 29.33		

TOTAL # TRUSS= 77

TOTAL BFT OF ALL TRUSSES= 2135.67

BFT.

TOTAL WEIGHT OF ALL TRSSES 3404.85 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
18	Hardware	LUS24	

TOTAL NUMBER OF
ITEMS= 18

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408146	T1	1	2	TRUSS DESC.		

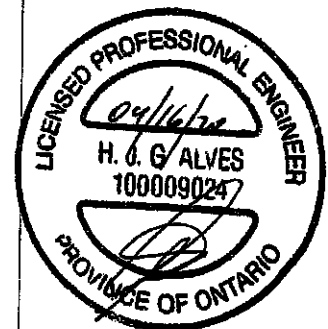
Tamarack Roof Truss, Burlington

Version B.310 5 Oct 28 2019 MITek Industries, Inc. Wed Apr 15 14:02:28 2020 Page 2
ID: CxSRXnRaDYJRNbHtIsra?zlylg-zBMZ71nmped?d7JFFxrlFutGqFBWVz3zGzBMKzQT59

FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	5-10-8	-457	-457	---	FRONT	VERT	TOTAL	---	C1
F	15-11-8	-110	-110	---	FRONT	VERT	TOTAL	---	C1
G	17-11-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
I	26-0-8	-457	-457	---	FRONT	VERT	TOTAL	---	C1
N	25-11-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
P	19-11-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
Q	15-11-8	-26	-26	---	FRONT	VERT	TOTAL	---	C1
R	11-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
T	5-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
V	7-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
W	9-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
X	11-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Y	13-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Z	19-11-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AA	21-11-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AB	23-11-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AC	1-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AD	3-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AE	7-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AF	9-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AG	13-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AH	17-11-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AI	21-11-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AJ	23-11-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AK	27-11-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AL	29-11-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

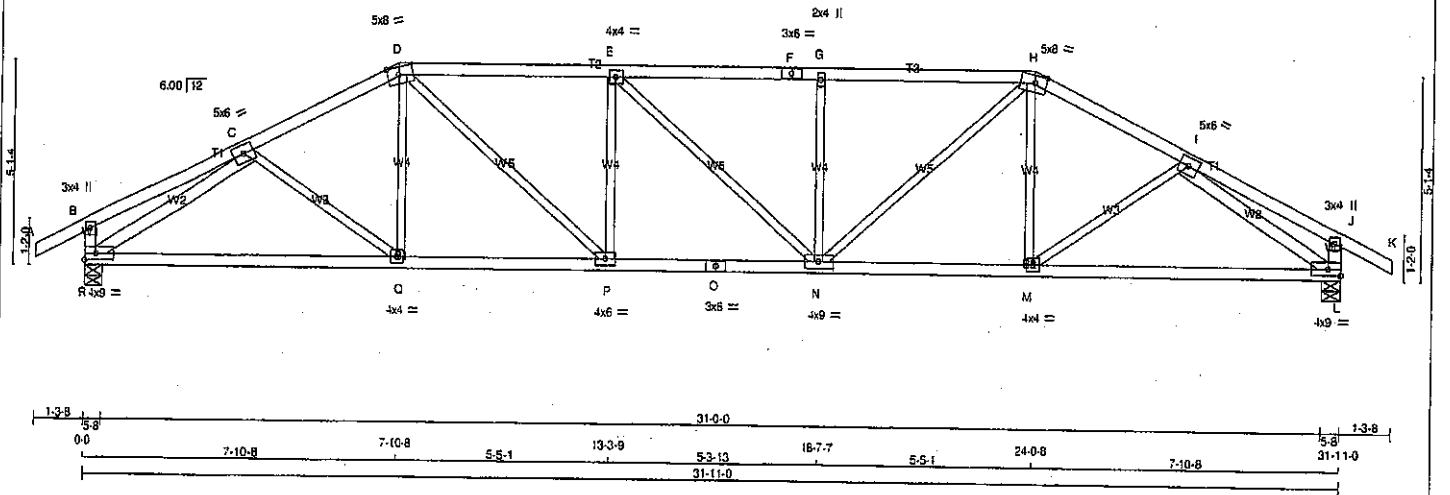
- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2006231

Handwritten initials

JOB NAME 408146	TRUSS NAME T2	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.310 5 Oct 29 2019 Mitek Industries, Inc. Wed Apr 15 14:02:29 2020 Page 1		
1-3-8 0-0 1-3-8 4-0-8 3-10-0 7-10-8 5-5-1 13-3-9 5-3-13 18-7-7 5-5-1 24-0-8 3-10-0 27-10-8 4-0-8 31-11-0 32-2-8 1-3-8				ID: CxrSRXnRaDYJRNbHtIsra?zlylg-RKwxKNnTa6mUcnVpyS4CTR1X4b_FvRCBwikvmzQT58		
				Scale = 1:52.6		



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
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	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 TMWV-t	MT20	5.0	6.0		
D TTWV-m	MT20	5.0	8.0	2.25	3.50
E TMWV-t	MT20	4.0	4.0		
F TS-t	MT20	3.0	6.0		
G TMWV-w	MT20	2.0	4.0		
H TTWV-m	MT20	5.0	8.0	2.25	3.50
I TMWV-t	MT20	5.0	6.0		
J TMV+p	MT20	3.0	4.0		
L BMWV1-t	MT20	4.0	9.0		Edge
M BMWV1-t	MT20	4.0	4.0		
N BMWV1-t	MT20	4.0	9.0		
O BS-t	MT20	3.0	6.0		
P BMWV1-t	MT20	4.0	8.0		
Q BMWV1-t	MT20	4.0	4.0		
R BMWV1-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	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	UP	IN-SX
R	1884	0	1884	0
L	1884	0	1884	0

UNFACTORED REACTIONS

1ST LCASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED SNOW LIVE PERMALIVE WIND DEAD SOIL
R	1330 886 0 0 0 0 444 0 0 0
L	1330 886 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 = 3.61 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	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
A-B	0 28	-91.8 -91.8 0.12 (1)	C-Q	0 74
B-C	0 17	-91.8 -91.8 0.20 (1)	Q-O	0 133
C-D	-2469 0	-91.8 -91.8 0.30 (1)	D-P	0 933
D-E	-2893 0	-91.8 -91.8 0.54 (1)	P-E	-534 0
E-F	-2891 0	-91.8 -91.8 0.53 (1)	E-N	-2 0
F-G	-2891 0	-91.8 -91.8 0.53 (1)	N-G	-533 0
G-H	-2891 0	-91.8 -91.8 0.30 (1)	H-N	0 931
H-I	-2469 0	-91.8 -91.8 0.20 (1)	M-H	0 134
I-J	0 17	-91.8 -91.8 0.12 (1)	M-I	0 74
J-K	0 28	-91.8 -91.8 0.12 (1)	R-C	-2866 0
R-B	-269 0	0 0 0.03 (1)	I-L	-2667 0
L-J	-269 0	0 0 0.03 (1)		
R-Q	0 2187	-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 2188	-18.5 -18.5 0.49 (1)		

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 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

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = L/969 (0.15")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/998 (0.29")

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

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

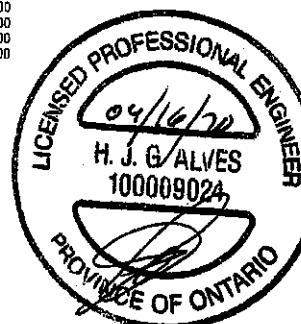
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PBF)
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= 0.84 (O) (INPUT = 0.90)
JSI METAL= 0.94 (O) (INPUT = 1.00)

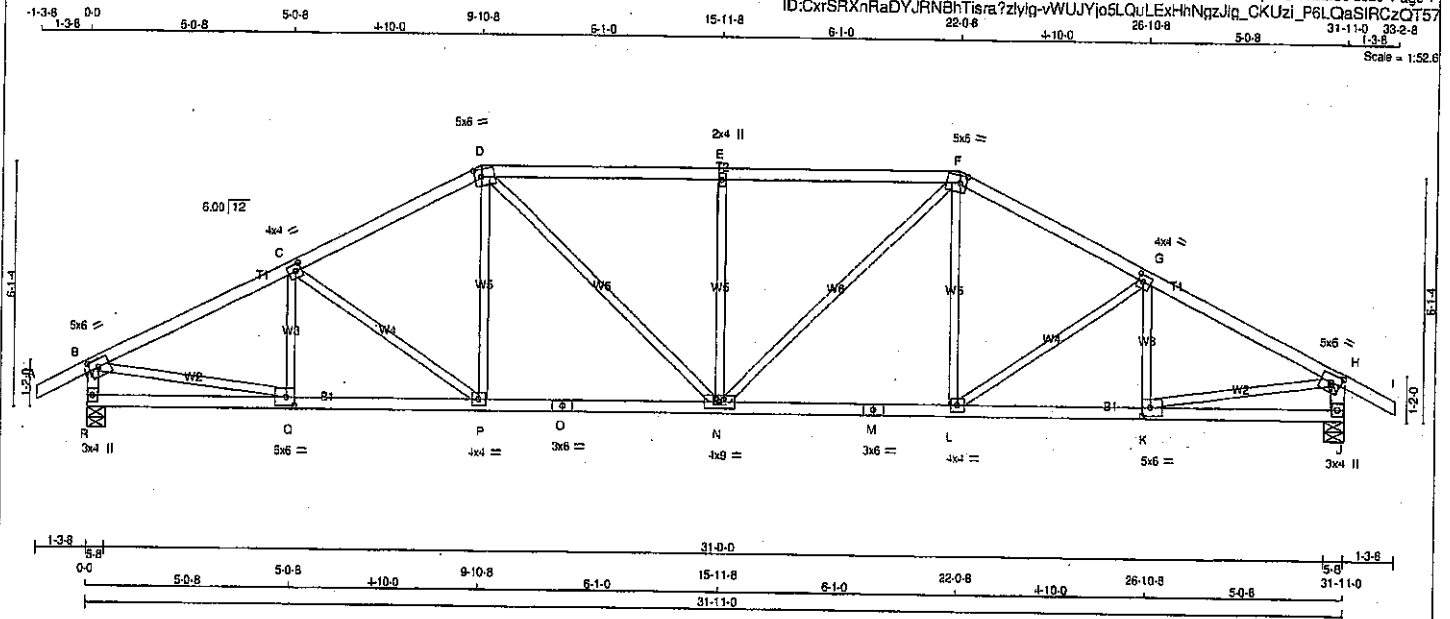


Structural component only
DWG# T-2006232

JOB NAME 408146	TRUSS NAME T3	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
--------------------	------------------	---------------	----------	-------------------------------	-------------	----------

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Wed Apr 15 14:02:30 2020 Page 1
ID:CxrSRXnRaDYJRNhTisra?zlyip-vWUJYjo5LQuLexHhNgzJig_CKUZi_P6LQaSiRCzQT57
31-11-0 33-2-8
Scale = 1:52.6



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

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

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

UNFACTORED REACTIONS		MAX. MIN. COMPONENT REACTIONS		DEAD		SOIL	
JT	COMBINED	JT	COMBINED	JT	COMBINED	JT	COMBINED
R	1330 888 / 0	R	1330 888 / 0	R	444 0	R	0 0
J	1330 888 / 0	J	1330 888 / 0	J	444 0	J	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 = 3.82 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PL)	MAX. CS (LC)	MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PL)	MAX. CS (LC)
FR-TO		FROM	TO	FR-TO		FROM	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	-264 / 0	0.16 (1)
C-D	-2342 / 0	-91.8	-91.8 0.35 (1)	4.17	P-D	0 / 257	0.06 (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 0.37 (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	-264 / 0	0.16 (1)
I-B	-1841 / 0	0.0	0.0 0.19 (1)	6.17	K-G	-301 / 0	0.07 (1)
J-H	-1841 / 0	0.0	0.0 0.19 (1)	6.17	B-Q	0 / 2323	0.52 (1)
R-Q	0 / 0	-18.5	-18.5 0.10 (4)	10.00	K-H	0 / 2323	0.52 (1)
Q-P	0 / 2260	-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 / 2260	-18.5	-18.5 0.43 (1)	10.00			
K-J	0 / 0	-18.5	-18.5 0.10 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.08")
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.24")
CSI: TC=0.54/1.00 (D-E:1), BC=0.43/1.00 (K-L:1), WB=0.52/1.00 (H-K:1), SS=0.27/1.00 (E-F:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

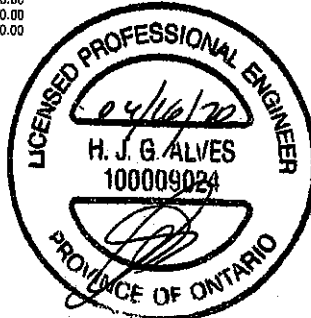
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

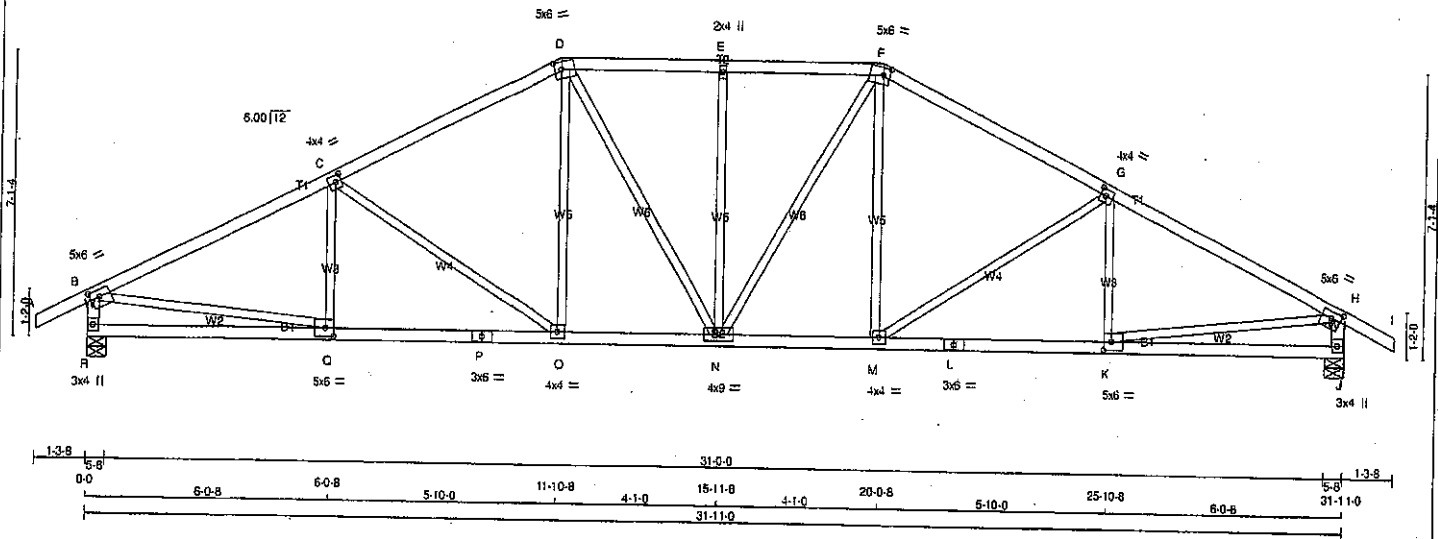
JSI GRIP = 0.90 (B) (INPUT = 0.90)
JSI METAL = 0.67 (H) (INPUT = 1.00)



Structural component only
DWG# T-2006233

JOB NAME 408146 Tamarack Roof Truss, Burlington	TRUSS NAME T4	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
---	------------------	---------------	----------	-------------------------------	----------

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Wed Apr 15 14:02:31 2020 Page 1
ID: CxrSRXnRaDYJRNhTisra7zlylg-Nj2h3pk6k0Cs5suwNUYHuWNVuJusFVfECrztQT56
31-11-0 33-2-8 1-2-8
Scale = 1:52.6



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
B - H	2x4	DRY	No.2
H - P	2x4	DRY	No.2
P - L	2x4	DRY	No.2
L - J	2x4	DRY	No.2

ALL WEBS 2x3 DRY EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG IN-SX	RECORD BRG IN-SX
JT VERT	1884	0	1884	0
JT HORZ	0	1884	0	1884

UNFACTORED REACTIONS

	1ST LCASE	MAX. MIN. COMPONENT REACTIONS
JT COMBINED	SNOW	LIVE PERM. LIVE WIND DEAD SOIL
R	1330	886 0 0 0 0 0 444 0 0 0
J	1330	886 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 = 3.79 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			
MEMB.	FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	FACTORED LC1 (LBS)	MEMB.	FACTORED FORCE (LBS)	FACTORED MAX. CSI (LC)	FACTORED MAX. CSI (LC)
FR-TO				FR-TO			
A-B	0 28	-18.5	-18.5 0.15 (4)	10.00	C-C	-212 29	0.06 (1)
B-C	-2579 0	-18.5	-18.5 0.55 (1)	3.79	C-D	-480 0	0.46 (1)
C-D	-2188 0	-18.5	-18.5 0.49 (1)	4.11	D-E	0 362	0.08 (1)
D-E	-2088 0	-18.5	-18.5 0.24 (1)	4.49	E-F	0 296	0.07 (1)
E-F	-2088 0	-18.5	-18.5 0.24 (1)	4.49	F-G	-451 0	0.39 (1)
F-G	-2188 0	-18.5	-18.5 0.49 (1)	4.11	G-H	0 296	0.07 (1)
G-H	-2579 0	-18.5	-18.5 0.55 (1)	3.79	H-I	0 362	0.08 (1)
H-I	0 28	-18.5	-18.5 0.12 (1)	10.00	I-J	-480 0	0.46 (1)
I-J	-1836 0	0.0	0.0 0.19 (1)	6.18	J-K	-212 29	0.06 (1)
J-K	-1836 0	0.0	0.0 0.19 (1)	6.18	K-L	0 2355	0.53 (1)
K-L	0 0	-18.5	-18.5 0.15 (4)	10.00	L-M	0 2355	0.53 (1)
L-M	0 2332	-18.5	-18.5 0.44 (1)	10.00	M-N	0 2332	0.53 (1)
M-N	0 2332	-18.5	-18.5 0.44 (1)	10.00	N-O	0 1935	0.44 (1)
N-O	0 1935	-18.5	-18.5 0.37 (1)	10.00	O-P	0 1935	0.37 (1)
O-P	0 1935	-18.5	-18.5 0.37 (1)	10.00	P-Q	0 1935	0.37 (1)
P-Q	0 1935	-18.5	-18.5 0.37 (1)	10.00	Q-R	0 2332	0.53 (1)
Q-R	0 2332	-18.5	-18.5 0.44 (1)	10.00	R-S	0 2332	0.53 (1)
R-S	0 2332	-18.5	-18.5 0.44 (1)	10.00	S-T	0 0	-18.5 -18.5 0.15 (4) 10.00
S-T	0 0	-18.5	-18.5 0.15 (4)	10.00			

TOTAL WEIGHT = 138 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

(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 (B-C:1), BC=0.44/1.00 (C-D:1), WB=0.53/1.00 (H-K:1), SSI=0.24/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

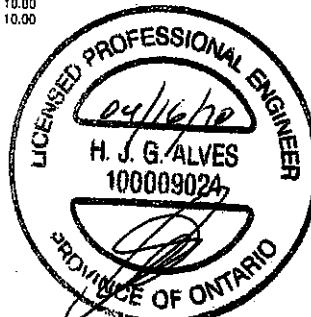
NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1687 798

PLATE PLACEMENT TOL. = 0.250 inches

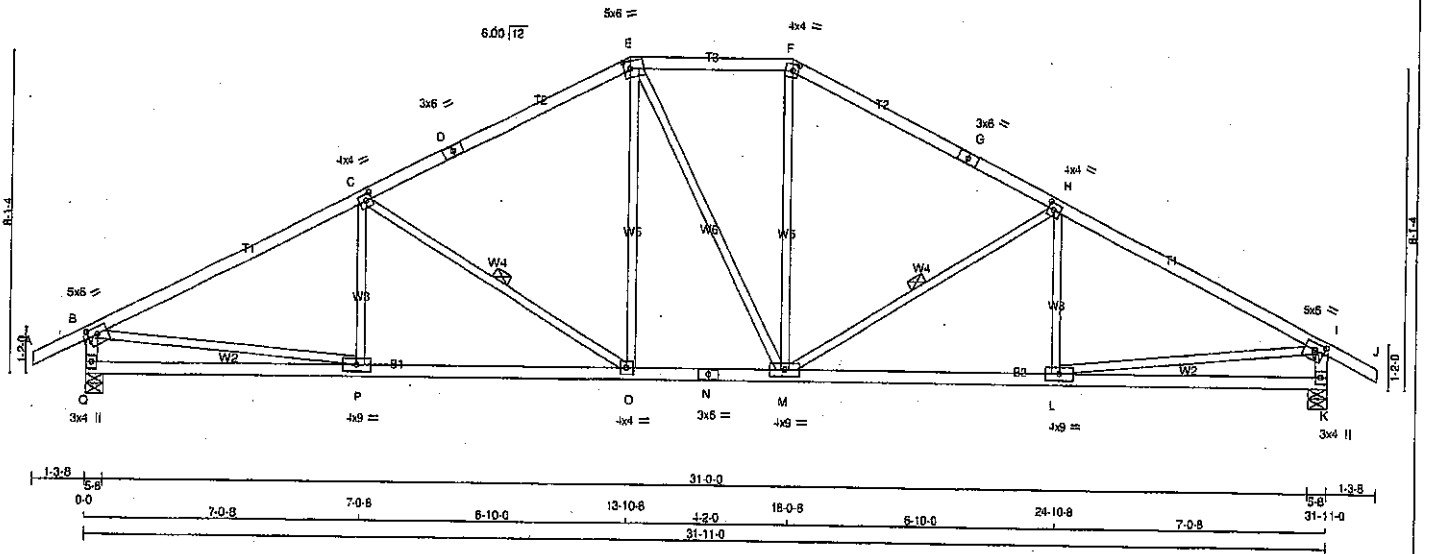
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (B) (INPUT = 0.90)
JSI METAL = 0.74 (P) (INPUT = 1.00)



Structural component only
DWG# T-2006234

JOB NAME 408146	TRUSS NAME T5	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Wed Apr 15 14:02:32 2020 Page 1 ID: CxrSRXnRaDYJRNhTisra?zlylg-rvc3zPqM183TER4U5?mq53U2HeQ5JTeuuxOV5zQT55 18-0-8 6-10-0 24-10-8 7-0-8 31-11-0 33-2-8 Scale = 1:53.3		



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
F - G	2x4	DRY	No.2
G - 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 - K	2x4	DRY	No.2

ALL WEBS
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-1	MT20	5.0	6.0	2.00	2.75
C	TMVW-1	MT20	4.0	4.0	2.00	1.75
D	TS-1	MT20	3.0	6.0		
E	TTWW-m	MT20	5.0	6.0	2.25	2.00
F	TTWW-m	MT20	4.0	4.0	2.00	1.75
G	TS-1	MT20	3.0	6.0		
H	TMVW-1	MT20	4.0	4.0	2.00	1.75
I	TMVW-1	MT20	5.0	6.0	2.00	2.75
K	BMV1-p	MT20	3.0	4.0		
L	BMVW-1	MT20	4.0	3.0		
M	BMVW-1	MT20	4.0	9.0		
N	BS-1	MT20	3.0	6.0		
O	BMVW-1	MT20	4.0	4.0		
P	BMVW-1	MT20	4.0	9.0		
Q	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
Q	1884	0	1884	0
K	1884	0	1884	0

UNFACTORED REACTIONS

1ST LCASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
Q	1330	885 : 0	0 : 0	0 : 0	0 : 0	444 : 0	0 : 0
K	1330	885 : 0	0 : 0	0 : 0	0 : 0	444 : 0	0 : 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. FURLIN 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.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)	UNBRACED LENGTH (FT)
FR-TO		FROM	TO	FR-TO			
A-B	0	-2587	0	-91.8	-91.8	0.12 (1)	10.00
B-C	-2587	0	-91.8	-91.8	0.78 (1)	3.47	P-C
C-D	-2013	0	-91.8	-91.8	0.58 (1)	3.97	O-E
D-E	-2013	0	-91.8	-91.8	0.88 (1)	3.97	E-M
E-F	-1775	0	-91.8	-91.8	0.24 (1)	4.79	M-F
F-G	-2013	0	-91.8	-91.8	0.69 (1)	3.97	M-H
G-H	-2013	0	-91.8	-91.8	0.58 (1)	3.97	L-H
H-I	-2587	0	-91.8	-91.8	0.78 (1)	3.47	B-P
I-J	0	28	-91.8	-91.8	0.12 (1)	10.00	L-I
Q-B	-1830	0	0.0	0.0	0.18 (1)	6.19	
K-I	-1830	0	0.0	0.0	0.18 (1)	6.19	
Q-P	0	0	-18.5	-18.5	0.22 (4)	10.00	
P-O	0	2344	-18.5	-18.5	0.48 (1)	10.00	
O-N	0	1774	-18.5	-18.5	0.35 (1)	10.00	
N-M	0	1774	-18.5	-18.5	0.35 (1)	10.00	
M-L	0	2344	-18.5	-18.5	0.48 (1)	10.00	
L-K	0	0	-18.5	-18.5	0.22 (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/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 (2018 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CALCULATED VERT. DEFL.(LL) = 1/999 (0.12")

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

CALCULATED VERT. DEFL.(TL) = 1/999 (0.24")

CS1: TC=0.78/1.00 (B-C:1), BC=0.48/1.00 (O-P:1),

WB=0.53/1.00 (B-P:1), SS=0.28/1.00 (H-I: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

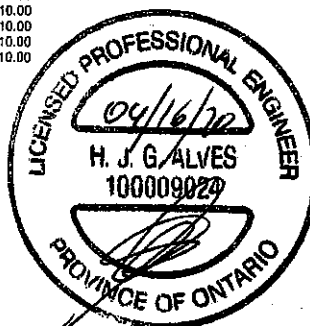
PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	818	354
	1667	788
	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.69 (B) (INPUT = 0.90)

JSI METAL = 0.70 (B) (INPUT = 1.00)



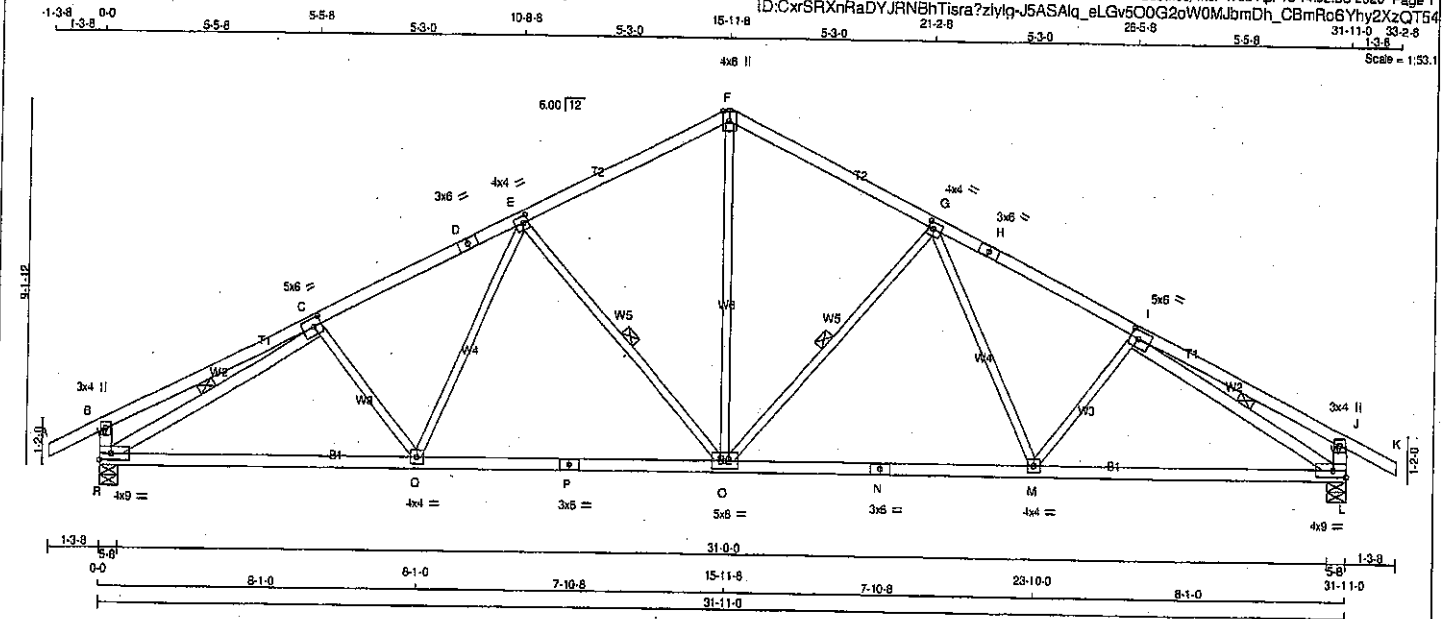
Structural component only
DWG# T-2006235

JOB NAME 408146	TRUSS NAME T6	QUANTITY 6	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
---------------------------	-------------------------	----------------------	-----------------	--------------------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Wed Apr 15 14:02:33 2020 Page 1

ID: CxrSRXnRaDYJRNbHtIsra?zlylg-J5ASAlq_eLgV500G2oW0Mj0mDh_CBmRo6Yhy2XzQT54



TOTAL WEIGHT = 6 X 133 = 798 lb

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

DRY, SEASONED LUMBER.

PLATES (table is in inches)

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

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

UNFACTORED REACTIONS

JT	1ST CASE		MAX. MIN. COMPONENT REACTIONS		DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE		
R	1330	886 / 0	0 / 0	0 / 0	444	0
L	1330	886 / 0	0 / 0	0 / 0	444	0

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

BRACING

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

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

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)
FR-TO		FROM TO	FR-TO	FROM TO
A-B	0 / 28	-91.8 -91.8 0.12 (1)	0 / 1211	0.27 (1)
B-C	0 / 20	-91.8 -91.8 0.33 (1)	0 / 0	0.32 (1)
C-D	-2428 / 0	-91.8 -91.8 0.37 (1)	0 / 312	0.07 (1)
D-E	-2428 / 0	-91.8 -91.8 0.37 (1)	156 / 21	0.05 (1)
E-F	-1808 / 0	-91.8 -91.8 0.34 (1)	0 / 0	0.32 (1)
F-G	-1808 / 0	-91.8 -91.8 0.34 (1)	0 / 312	0.07 (1)
G-H	-2428 / 0	-91.8 -91.8 0.37 (1)	0 / 0	0.05 (1)
H-I	-2428 / 0	-91.8 -91.8 0.37 (1)	2717 / 0	0.55 (1)
I-J	0 / 20	-91.8 -91.8 0.33 (1)	0 / 0	0.55 (1)
J-K	0 / 28	-91.8 -91.8 0.12 (1)		
K-L	-325 / 0	0 / 0 0.03 (1)		
L-J	-325 / 0	0 / 0 0.03 (1)		
	0 / 2268	-18.5 -18.5 0.51 (1)		
	0 / 2081	-18.5 -18.5 0.48 (1)		
	0 / 2081	-18.5 -18.5 0.48 (1)		
	0 / 2051	-18.5 -18.5 0.48 (1)		
	0 / 2051	-18.5 -18.5 0.48 (1)		
	0 / 2268	-18.5 -18.5 0.51 (1)		

CITY OF HAMILTON
Building Division

Permit No. 187704

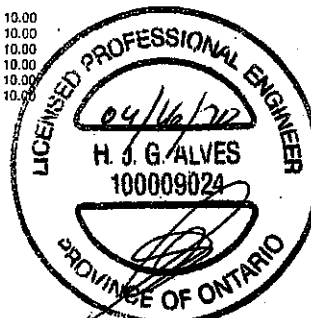
THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE

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

FOR CHIEF BUILDING OFFICIAL

DATE



DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

CSI: TC=0.37/1.00 (C-E:1), BC=0.51/1.00 (Q-R:1), WB=0.55/1.00 (C-R:1), SS=0.20/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PS)	SECTION (PL)
MT20	818 354 1667 788 1987 1656	

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.65 (I) (INPUT = 0.90)
JSI METAL = 0.70 (P) (INPUT = 1.00)

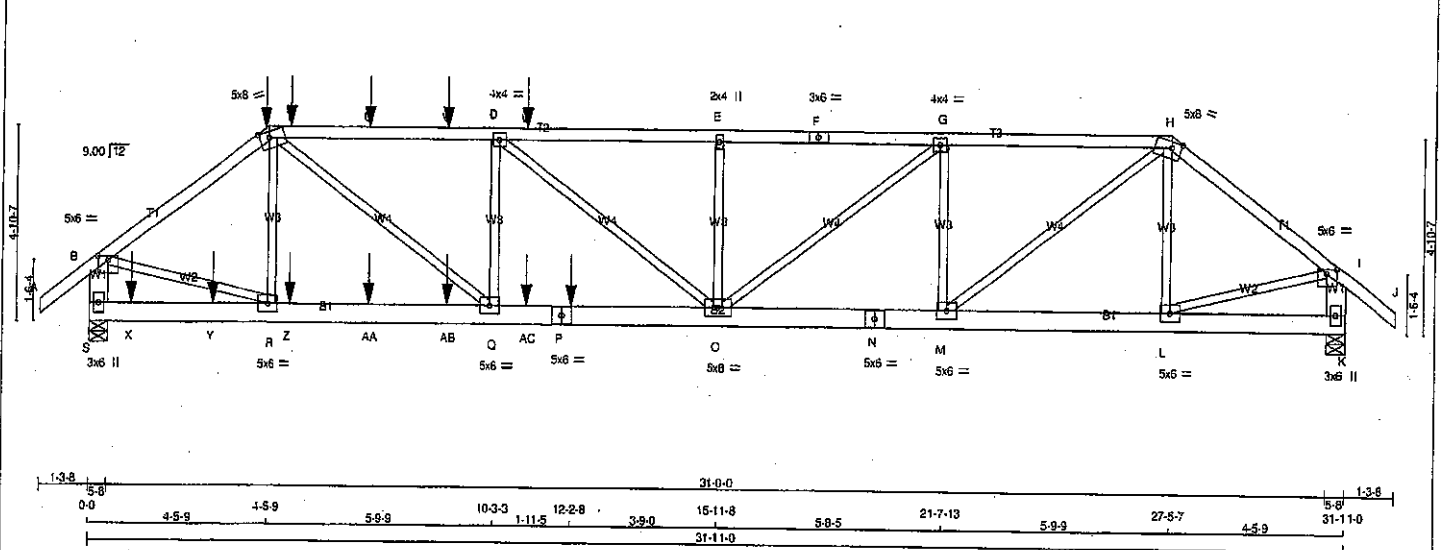
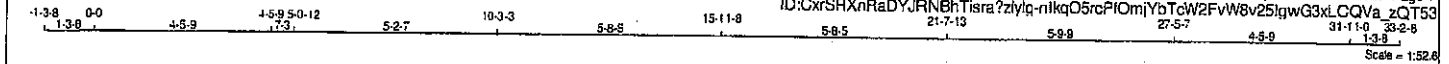
Structural component only
DWG# T-2006236

JOB NAME 408146	TRUSS NAME T7	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
--------------------	------------------	---------------	----------	-------------------------------	-------------	----------

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MITak Industries, Inc. Wed Apr 15 14:02:34 2020 Page 1

ID: CxrSRXnRaDYJRNbHtIsra?ziyq-nlkqO5rcPIOmJYbTcW2FvW8v25lgwG3LCQVa_zQT53



CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - J	2x4	DRY	No.2
S - B	2x6	DRY	No.2
K - I	2x6	DRY	No.2
S - P	2x6	DRY	No.2
P - N	2x6	DRY	No.2
N - 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	12	SIDE (61.0)
C - F	12	SIDE (61.0)
F - H	12	TOP
H - J	12	TOP
S - B	12	TOP
K - I	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
S - P	12	SIDE (0.0)
P - N	12	SIDE (0.0)
N - K	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)	W	LEN	Y	X
B TMWV-p	MT20	5.0	6.0	1.25 3.00
C TTWW-m	MT20	5.0	6.0	1.75 3.00
D TMWV-w	MT20	4.0	4.0	
E TMW-w	MT20	2.0	4.0	
F TS-1	MT20	3.0	6.0	
G TMWV-w	MT20	4.0	4.0	
H TTWW-m	MT20	5.0	6.0	1.75 3.00
I TMWV-p	MT20	5.0	6.0	1.25 3.00
K BMV-i+p	MT20	3.0	6.0	
L, M, Q, R				
L BMWV-w	MT20	5.0	6.0	
N SS-1	MT20	5.0	6.0	
O BMWVW-w	MT20	5.0	6.0	
P BS-1	MT20	5.0	6.0	
S BMV-i+p	MT20	3.0	6.0	

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	UP	DOWN
S	2898	0	0	5-8
K	2310	0	0	5-8

UNFACTORED REACTIONS	1ST CASE	MAX./MIN. COMPONENT REACTIONS
JT	COMBINED	LIVE
S	2045	1367.0
K	1630	1091.0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.97 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	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. UNBRACED LENGTH (FT)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)
FR-TO				FR-TO		
A-B	0/38	-91.8	-91.8 0.07 (1)	10.00	R-C	-531.0
B-C	-3144.0	-91.8	-91.8 0.23 (1)	5.00	C-Q	0 2690
C-T	-4628.0	-91.8	-91.8 0.49 (1)	4.01	Q-D	-898.0
T-U	-4628.0	-91.8	-91.8 0.49 (1)	4.01	D-O	0 101
U-V	-4628.0	-91.8	-91.8 0.49 (1)	4.01	O-E	-464.0
V-D	-4628.0	-91.8	-91.8 0.49 (1)	4.01	O-G	0 1217
D-W	-4707.0	-91.8	-91.8 0.49 (1)	3.97	M-G	-1349.0
W-E	-4707.0	-91.8	-91.8 0.49 (1)	3.97	M-H	0 2276
E-F	-4707.0	-91.8	-91.8 0.39 (1)	4.11	L-H	-343.0
F-G	-4707.0	-91.8	-91.8 0.39 (1)	4.11	B-R	0 2584
G-H	-3751.0	-91.8	-91.8 0.34 (1)	4.55	L-I	0 2018
H-I	-2452.0	-91.8	-91.8 0.21 (1)	5.54		
I-J	0/38	-91.8	-91.8 0.07 (1)	10.00		
S-B	-2834.0	0.0	0.0 1.10 (1)	7.81		
K-I	-2283.0	0.0	0.0 0.08 (1)	7.81		
S-X	0/0	-18.5	-18.5 0.03 (4)	10.00		
X-Y	0/0	-18.5	-18.5 0.03 (4)	10.00		
Y-R	0/0	-18.5	-18.5 0.03 (4)	10.00		
R-Z	0/2498	-18.5	-18.5 0.28 (1)	10.00		
Z-AA	0/2498	-18.5	-18.5 0.28 (1)	10.00		
AA-AB	0/2498	-18.5	-18.5 0.28 (1)	10.00		
AB-Q	0/2498	-18.5	-18.5 0.28 (1)	10.00		
Q-AC	0/4628	-18.5	-18.5 0.56 (1)	10.00		
AC-P	0/4628	-18.5	-18.5 0.56 (1)	10.00		
P-O	0/4628	-18.5	-18.5 0.56 (1)	10.00		
O-N	0/3751	-18.5	-18.5 0.31 (1)	10.00		
N-M	0/3751	-18.5	-18.5 0.31 (1)	10.00		
M-L	0/1950	-18.5	-18.5 0.18 (1)	10.00		
L-K	0/0	-18.5	-18.5 0.03 (4)	10.00		

FACTORED CONCENTRATED LOADS (LBS)	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
JT	4-5-8	-38	-42		FRONT	VERT	DEAD		C1
C	4-5-8	-173	-173		FRONT	VERT	SNOW		C1
P	12-2-8	-760	-760		BACK	VERT	TOTAL		C1
T	5-0-12	-104	-104		BACK	VERT	TOTAL		C1
U	7-0-12	-86	-86		BACK	VERT	TOTAL		C1
V	9-0-12	-86	-86		BACK	VERT	TOTAL		C1
W	11-0-12	-86	-86		BACK	VERT	TOTAL		C1
X	1-0-12	-17	-17		BACK	VERT	TOTAL		C1
Y	3-0-12	-17	-17		BACK	VERT	TOTAL		C1
Z	5-0-12	-17	-17		BACK	VERT	TOTAL		C1

DESIGN CRITERIA

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

SPECIFIED LOADS:
TOP CH. LL = 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./C/C

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

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBCG 2018, CBC 2012, ABC 2019
- PART 9 OF CBCG 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 (1.09")
CALCULATED VERT. DEF. (LL) = L/999 (0.13")
ALLOWABLE DEF. (TL) = L/360 (1.09")
CALCULATED VERT. DEF. (TL) = L/999 (0.24")

CSI: TC=0.49/1.00 (D-E:1), BC=0.56/1.00 (O-Q:1), WB=0.33/1.00 (C-Q:1), SSI=0.21/1.00 (O-Q:1)

TOL 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 818 354 1667 788 1987 1656

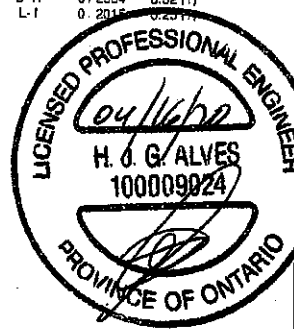
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.87 (P) (INPUT = 0.90)
JSI METAL = 0.73 (N) (INPUT = 1.00)

Structural component only
DWG# T-2006237

CONTINUED ON PAGE 2

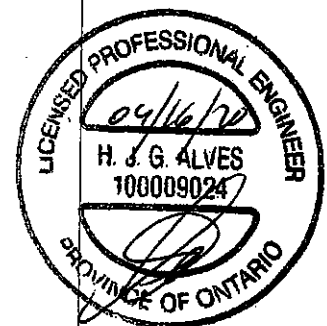


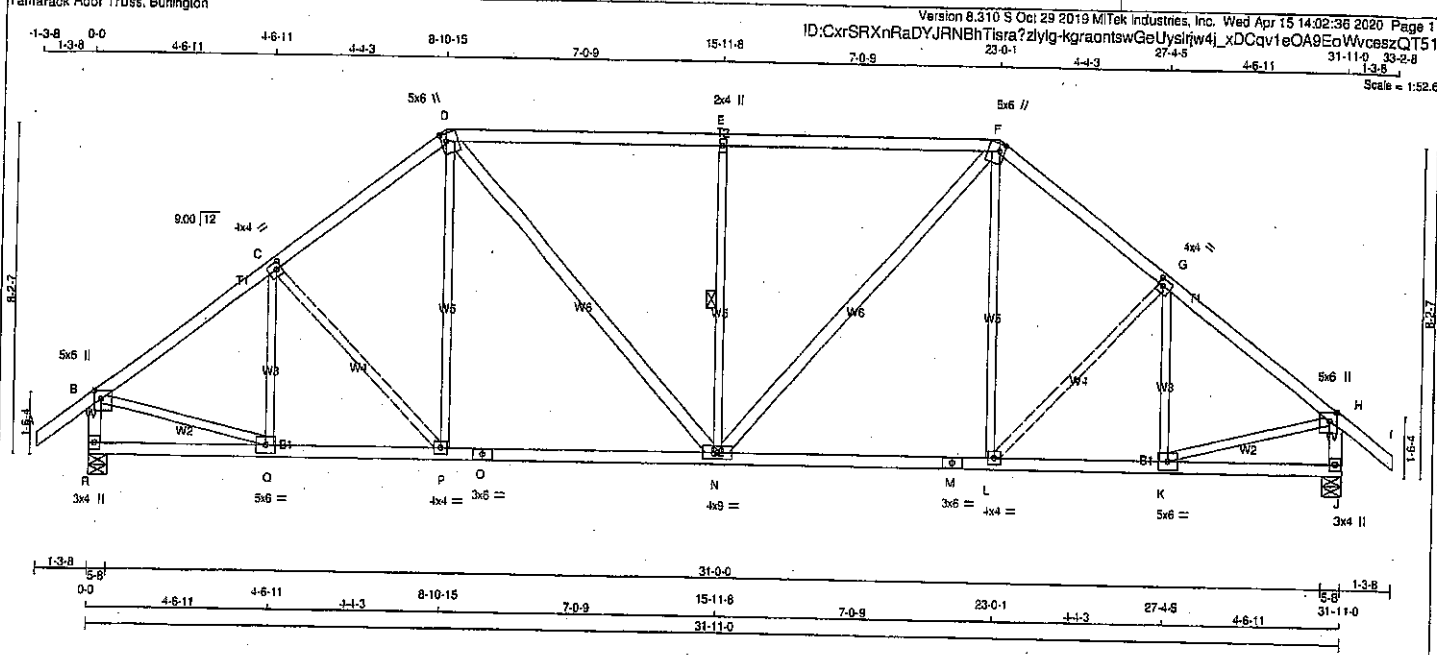
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408146	T7	1	2	TRUSS DESC.		
Tamarack Roof Truss, Burlington				Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Wed Apr 15 14:02:34 2020 Page 2		
ID:CxrSRXnRaDYJRNBHTIsra?zlvlg-nlkqD5rcPIOmYbTcW2FvW8v25lgwG3xLQQVa_zQT53						

FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
AA	7-0-12	-17	-17	---	BACK	VERT	TOTAL	---	C1
AB	9-0-12	-17	-17	---	BACK	VERT	TOTAL	---	C1
AC	11-0-12	-17	-17	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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





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

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)	W	LEN	Y	X
BT MVW+p MT20	5.0	6.0	2.50	2.00
CT TMWW-t MT20	4.0	4.0	2.00	1.50
DT TTWW+m MT20	5.0	6.0	2.25	1.50
ET TMW+w MT20	2.0	4.0		
FT TTWW+m MT20	5.0	6.0	2.25	1.50
GT TMWW-t MT20	4.0	4.0	2.00	1.50
HT TMVW+p MT20	5.0	6.0	2.50	2.00
JT BMV1+p MT20	3.0	4.0		
KT BMWW-t MT20	5.0	6.0		
LT BMWW-t MT20	4.0	4.0		
MT BS-t MT20	3.0	6.0		
NT BMWWW-t MT20	4.0	9.0		
OT BS-t MT20	3.0	6.0		
PT BMWW-t MT20	4.0	4.0		
QT BMWW-t MT20	5.0	6.0		
RT BMV1+p MT20	3.0	4.0		

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

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

UNFACTORED REACTIONS

1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	1331	887.0	0.0	0.0	444.0	0.0
R	1331	887.0	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 = 4.08 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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 MEMB. FORCE (LBS)	FACTORED VERT. LOAD (PL)	FACTORED LC1 MAX. (LC)	MAX. UNBRACED LENGTH	WEBS	MAX. FACTORED MEMB. FORCE (LBS)	FACTORED VERT. LOAD (PL)	FACTORED LC1 MAX. (LC)	MAX. UNBRACED LENGTH
FR-TO					FR-TO				
A-B	0.38	-91.8	-91.8 0.12 (1)	10.00	Q-C	-324.0	0	0.12 (1)	10.00
B-C	-1898.0	-91.8	-91.8 0.28 (1)	4.63	C-P	-150.0	0	0.11 (1)	10.00
C-D	-1829.0	-91.8	-91.8 0.27 (1)	4.70	P-D	0.219	0	0.05 (4)	10.00
D-E	-1854.0	-91.8	-91.8 0.65 (1)	4.08	D-N	0.823	0	0.10 (1)	10.00
E-F	-1854.0	-91.8	-91.8 0.65 (1)	4.08	N-E	-795.0	0	0.34 (1)	10.00
F-G	-1829.0	-91.8	-91.8 0.27 (1)	4.70	N-F	0.823	0	0.10 (1)	10.00
G-H	-1898.0	-91.8	-91.8 0.28 (1)	4.63	L-F	0.219	0	0.05 (4)	10.00
H-I	0.38	-91.8	-91.8 0.12 (1)	10.00	L-G	-150.0	0	0.11 (1)	10.00
R-B	-1848.0	0.0	0.0 0.19 (1)	6.16	K-G	-324.0	0	0.12 (1)	10.00
J-H	-1848.0	0.0	0.0 0.19 (1)	6.16	B-Q	0.1593	0.36 (1)	0.36 (1)	10.00
R-O	0.0	-18.5	-18.5 0.08 (4)	10.00	K-H	0.1593	0.36 (1)	0.36 (1)	10.00
Q-P	0.1541	-18.5	-18.5 0.32 (1)	10.00					
P-O	0.1439	-18.5	-18.5 0.34 (1)	10.00					
O-N	0.1439	-18.5	-18.5 0.34 (1)	10.00					
N-M	0.1439	-18.5	-18.5 0.34 (1)	10.00					
M-L	0.1439	-18.5	-18.5 0.34 (1)	10.00					
L-K	0.1541	-18.5	-18.5 0.32 (1)	10.00					
K-J	0.0	-18.5	-18.5 0.08 (4)	10.00					

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 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 088-09, CSA 088-14 TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.08") CALCULATED VERT. DEFL.(LL) = L/999 (0.07") ALLOWABLE DEFL.(TL) = L/380 (1.08") CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CSI: TC=0.88/1.00 (D-E:1), SC=0.34/1.00 (N-P:1), WB=0.36/1.00 (B-Q:1), SI=0.31/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

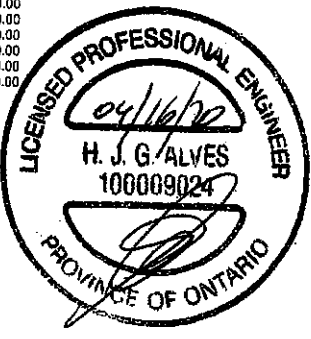
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES: PLATE GRIP(DRY) SHEAR SECTION (PSI) (PL) (PL) MAX MIN MAX MIN MAX MIN MT20 818 354 1887 788 1987 1865

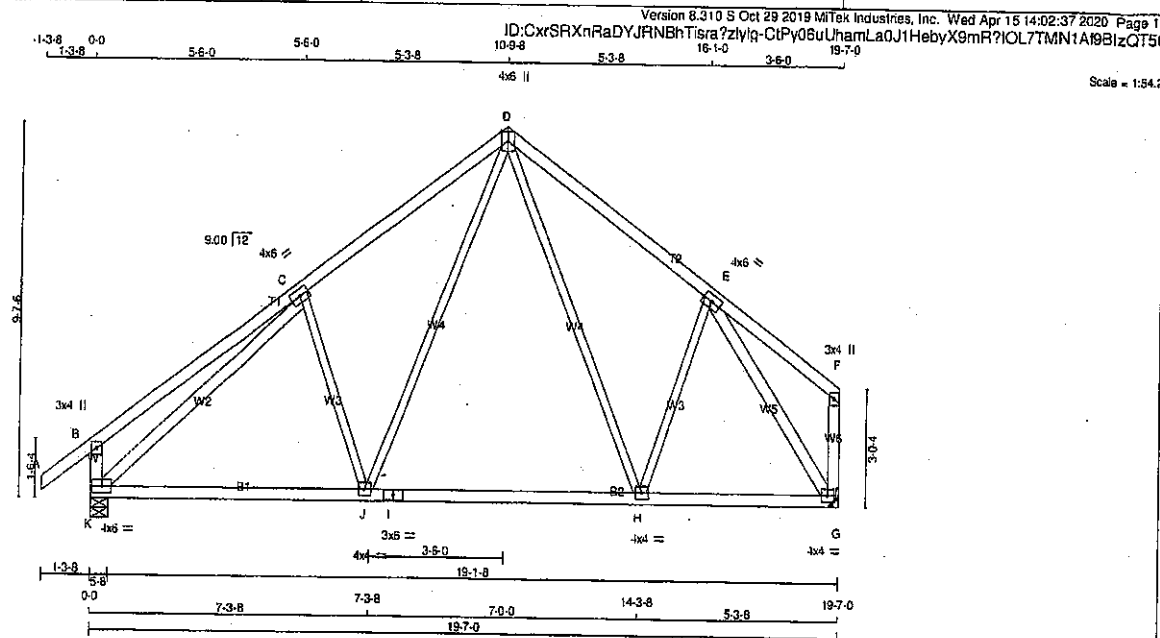
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (B) (INPUT = 0.90) JSI METAL = 0.42 (O) (INPUT = 1.00)



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408146	T10	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 - F	2x4 DRY	No.2	SPF		
K - B	2x4 DRY	No.2	SPF		
G - F	2x4 DRY	No.2	SPF		
K - I	2x4 DRY	No.2	SPF		
I - G	2x4 DRY	No.2	SPF		
ALL WEBS	2x3 DRY	No.2	SPF		
EXCEPT					
K - C	2x4 DRY	No.2	SPF		
E - G	2x4 DRY	No.2	SPF		

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0			
C	TMWW-t	MT20	4.0	6.0			
D	TTWW+p	MT20	4.0	6.0			Edge
E	TMWW-t	MT20	4.0	6.0			
F	TMV+p	MT20	3.0	4.0			
G	BMVW1-t	MT20	4.0	4.0			
H	BMVW-t	MT20	4.0	4.0			
I	BS-t	MT20	3.0	6.0			
J	BMVW-t	MT20	4.0	4.0			
K	BMVW1-t	MT20	4.0	6.0			

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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	UP	IN-SX
K	1206	0	0	5-8
G	1080	0	0	MECHANICAL

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS	1ST LCASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED	K	COMBINED
K	851	G	763
G	572.0		
	501.0		

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)		
FR-TO		FROM TO			FR-TO				
A-B	0.38	-91.8	-91.8	0.12 (1)	10.00	C-J	-352.0	0.19 (1)	
B-C	0.38	-91.8	-91.8	0.44 (1)	10.00	J-D	0.518	0.12 (1)	
C-D	-955.0	-91.8	-91.8	0.36 (1)	5.87	D-H	0.157	0.04 (1)	
D-E	-797.0	-91.8	-91.8	0.31 (1)	6.25	H-E	-27.54	0.02 (4)	
E-F	0.42	-91.8	-91.8	0.34 (1)	10.00	K-C	-1206.0	0.94 (1)	
K-B	-311.0	0.0	0.0	0.03 (1)	7.81	E-G	-1141.0	0.54 (1)	
G-F	-88.0	0.0	0.0	0.01 (1)	7.81				
K-J	0.864	-18.5	-18.5	0.31 (4)	10.00				
J-I	0.559	-18.5	-18.5	0.28 (4)	10.00				
I-H	0.559	-18.5	-18.5	0.28 (4)	10.00				
H-G	0.624	-18.5	-18.5	0.20 (4)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.85")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.65")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.44/1.00 (B-C:1), BC=0.31/1.00 (J-K:4), WB=0.94/1.00 (C-K:1), SSI=0.19/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

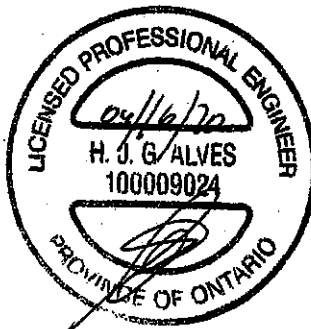
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 518 354 1667 788 1957 1658

PLATE PLACEMENT TOL. = 0.250 inches

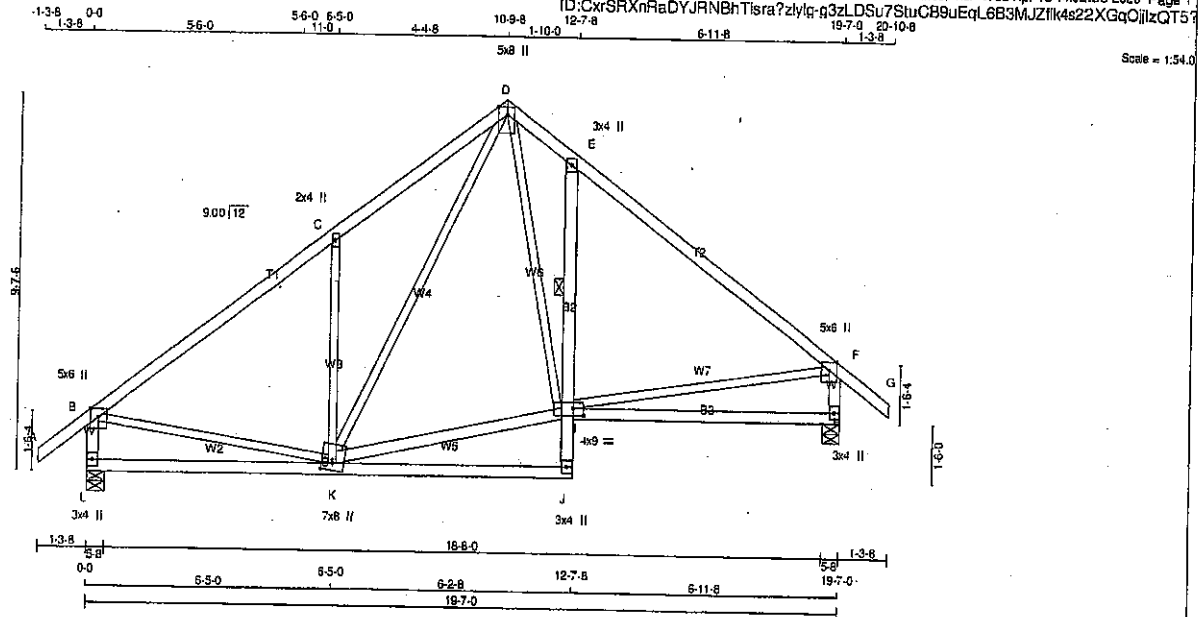
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (C) (INPUT = 0.90)
JSI METAL= 0.34 (I) (INPUT = 1.00)



Structural component only
DWG# T-2006240

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408146	T10S	2	1	GREEN PARK HOMES		
Tamarack Roof Truss, Burlington						



LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY No.2

EXCEPT

K - I 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	Edge	
C	TMVW+w	MT20	2.0	4.0		
D	TTWV+p	MT20	5.0	8.0	Edge 2.75	
E	TMV+p	MT20	3.0	4.0		
F	TMVW+p	MT20	5.0	8.0	Edge	
H	BMV1+p	MT20	3.0	4.0		
I	BVMWW+I	MT20	4.0	9.0	2.25	3.00
J	BMV+p	MT20	3.0	4.0		
K	BMWWWW+I	MT20	7.0	8.0	3.50	2.25
L	BMV1+p	MT20	3.0	4.0		

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
L	1208	0	1208	0
H	1208	0	1208	0

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
L	COMBINED	851	572 / 0	0 / 0	0 / 0	0 / 0	279 / 0	0 / 0
H	COMBINED	851	572 / 0	0 / 0	0 / 0	0 / 0	279 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.28 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 8.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED HORIZ. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (PLF)
FR-TO		FROM	TO	LENGTH	FR-TO		
A-B	0 38	-91.8	-91.8	0.12 (1)	10.00	B-K	0 888 0.20 (1)
B-C	-1034 / 0	-91.8	-91.8	0.48 (1)	5.58	K-C	-817 / 0 0.40 (1)
C-D	-1034 / 0	-91.8	-91.8	0.38 (1)	5.55	K-I	0 640 0.10 (1)
D-E	-1158 / 0	-91.8	-91.8	0.47 (1)	5.28	D-I	0 844 0.19 (1)
E-F	-989 / 0	-91.8	-91.8	0.58 (1)	5.43	K-D	0 492 0.11 (1)
F-G	0 38	-91.8	-91.8	0.12 (1)	10.00	I-F	0 832 0.19 (1)
L-B	-1159 / 0	0.0	0.0	0.12 (1)	7.40		
H-F	-1140 / 0	0.0	0.0	0.12 (1)	7.45		
L-K	0 / 0	-18.5	-18.5	0.21 (4)	10.00		
K-J	0 / 10	-18.5	-18.5	0.21 (4)	10.00		
J-I	0 46	0.0	0.0	0.03 (1)	10.00		
I-E	-700 / 0	0.0	0.0	0.04 (1)	8.25		
I-H	0 / 0	-18.5	-18.5	0.27 (4)	10.00		

TOTAL WEIGHT = 2 X 102 = 204 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.65")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL) = L/360 (0.65")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.58/1.00 (E-F:1), EC=0.27/1.00 (H-I:4), WB=0.41/1.00 (C-K:1), SSI=0.24/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

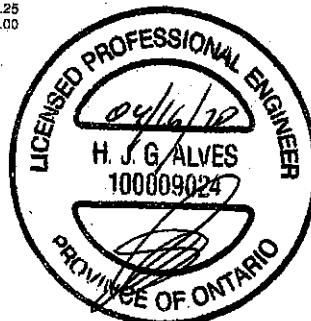
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

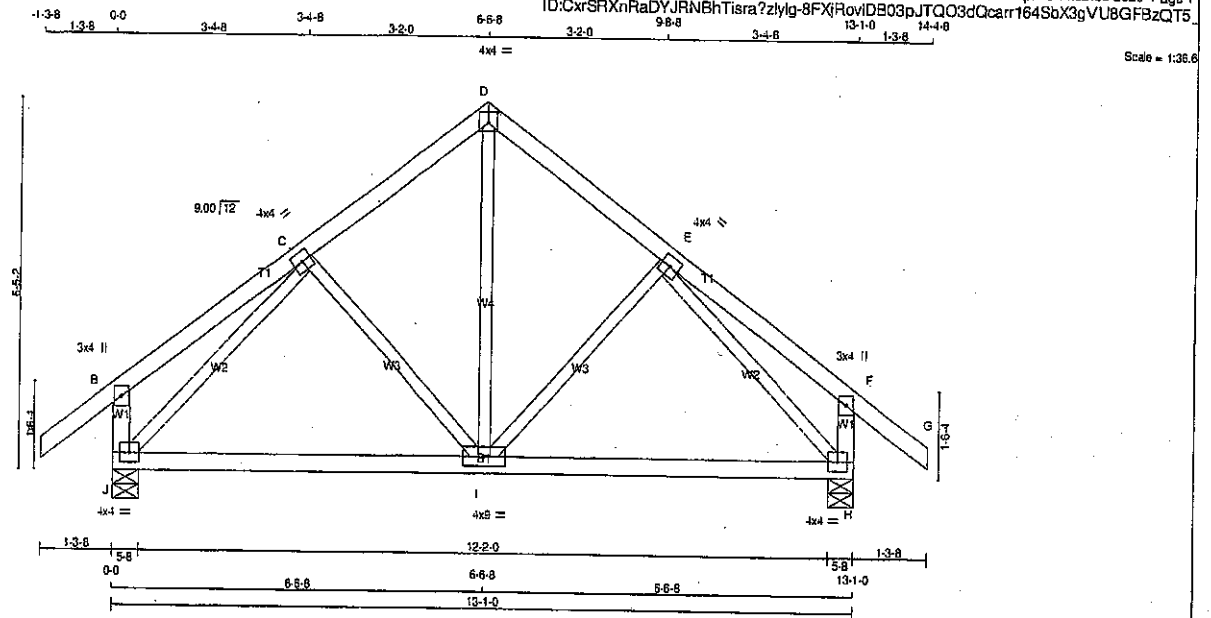
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.84 (I) (INPUT = 0.90)
JSI METAL = 0.45 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006241

JOB NAME 408146	TRUSS NAME T11	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - 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 EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMV+p	MT20	3.0	4.0		
C TMWW+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	4.0		
I BMWW+I	MT20	4.0	4.0		
J BMVW+I	MT20	4.0	4.0		

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

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

UNFACTORED REACTIONS

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

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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 VERT. LOAD (PLF)	MAX. FACTORED HORIZ. LOAD (PLF)	MAX. FACTORED HORIZ. LOAD (PLF)	MAX. FACTORED TORSION (LBS-FT)	MAX. FACTORED TORSION (LBS-FT)
A-B	0 / 38	-91.8	-91.8	0.12 (1)	10.00	10.00	0 / 368	0.08 (1)
B-C	0 / 20	-91.8	-91.8	0.15 (1)	10.00	10.00	0 / 148	0.08 (1)
C-D	-522 / 0	-91.8	-91.8	0.12 (1)	6.25	6.25	0 / 148	0.06 (1)
D-E	-522 / 0	-91.8	-91.8	0.12 (1)	6.25	6.25	0 / 148	0.06 (1)
E-F	0 / 20	-91.8	-91.8	0.15 (1)	10.00	10.00	0 / 148	0.08 (1)
F-G	0 / 38	-91.8	-91.8	0.12 (1)	10.00	10.00	0 / 148	0.08 (1)
J-I	-242 / 0	0.0	0.0	0.03 (1)	7.81	7.81	0 / 148	0.08 (1)
H-F	-242 / 0	0.0	0.0	0.03 (1)	7.81	7.81	0 / 148	0.08 (1)
J-I	0 / 501	-18.5	-18.5	0.26 (4)	10.00	10.00	0 / 148	0.08 (1)
H-F	0 / 501	-18.5	-18.5	0.26 (4)	10.00	10.00	0 / 148	0.08 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- 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) = $L/999$ (0.05")

CSI: TC=0.15/1.00 (E-F:1), BC=0.26/1.00 (J-I:4), WB=0.28/1.00 (E-H:1), SSI=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

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

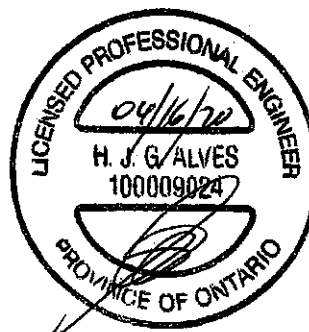
NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PL)	(PL)
MAX	MIN	MAX
MT20	618	354
	1687	788
	1987	1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.78 (C) (INPUT = 0.90)
JSI METAL= 0.27 (C) (INPUT = 1.00)

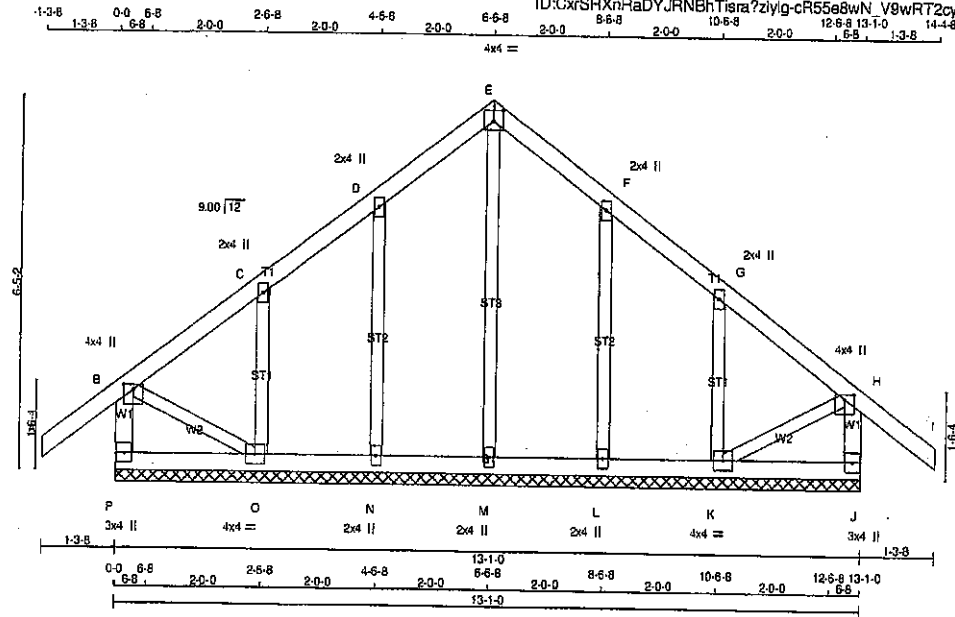


Structural component only
DWG# T-2006242

JOB NAME 408146	TRUSS NAME T11G	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
--------------------	--------------------	---------------	----------	-------------------------------	-------------	----------

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Wed Apr 15 14:02:40 2020 Page 1
ID: CxrSRXnRadyJRNbTisra?ziyg-cR55e8wN_V8wRT2cym8f9nO1EWTOk1Pqj8lpmdzQT42



Scale = 1:36.4

TOTAL WEIGHT = 61 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER
A - E	2x4	DRY	No. 2
E - I	2x4	DRY	No. 2
P - B	2x4	DRY	No. 2
J - H	2x4	DRY	No. 2
P - J	2x4	DRY	No. 2

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

GABLE STUDS SPACED AT 2'-0" OC.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	4.0	4.0	1.00	2.00
C, D, F, G					
C TMVW+w	MT20	2.0	4.0		
E TMVW-p	MT20	4.0	4.0	2.25	2.00
H TMVW+p	MT20	4.0	4.0	1.00	2.00
J BMV1+p	MT20	3.0	4.0		
K BMVW1-i	MT20	4.0	4.0		
L, M, N					
L BMV1+w	MT20	2.0	4.0		
O BMVW1-i	MT20	4.0	4.0		
P 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: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	FACTORED LC1 (PLF)	MAX. CSI (LC)	UNBRACED LENGTH FR-TO	MEMB.	WEBS MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
A-B	0/38	-91.8	-91.8	0.12 (1)	10.00	M-E	-133/0	0.09 (1)
B-C	-22/0	-91.8	-91.8	0.07 (1)	6.25	N-D	-194/0	0.07 (1)
C-D	-30/0	-91.8	-91.8	0.07 (1)	6.25	O-C	-228/0	0.05 (1)
D-E	-31/0	-91.8	-91.8	0.05 (1)	6.25	L-F	-194/0	0.07 (1)
E-F	-31/0	-91.8	-91.8	0.05 (1)	6.25	K-G	-228/0	0.05 (1)
F-G	-30/0	-91.8	-91.8	0.07 (1)	6.25	B-O	0/30	0.01 (1)
G-H	-22/0	-91.8	-91.8	0.07 (1)	6.25	K-H	0/30	0.01 (1)
H-I	0/38	-91.8	-91.8	0.12 (1)	10.00			
P-B	-252/0	0.0	0.0	0.03 (2)	7.81			
J-H	-252/0	0.0	0.0	0.03 (1)	7.81			
P-O	0/0	-18.5	-18.5	0.03 (4)	10.00			
O-N	0/21	-18.5	-18.5	0.03 (4)	10.00			
N-M	0/17	-18.5	-18.5	0.02 (4)	10.00			
M-L	0/17	-18.5	-18.5	0.02 (4)	10.00			
L-K	0/21	-18.5	-18.5	0.03 (4)	10.00			
K-J	0/0	-18.5	-18.5	0.03 (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. 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 089-14
- 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 (H-I:1), BC=0.03/1.00 (N-O:4), WB=0.09/1.00 (E-M:1), SSI=0.08/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

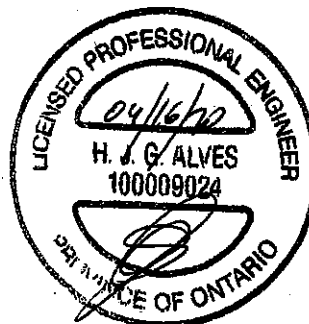
NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN
MT20	518 354	1667 788 1967 1656

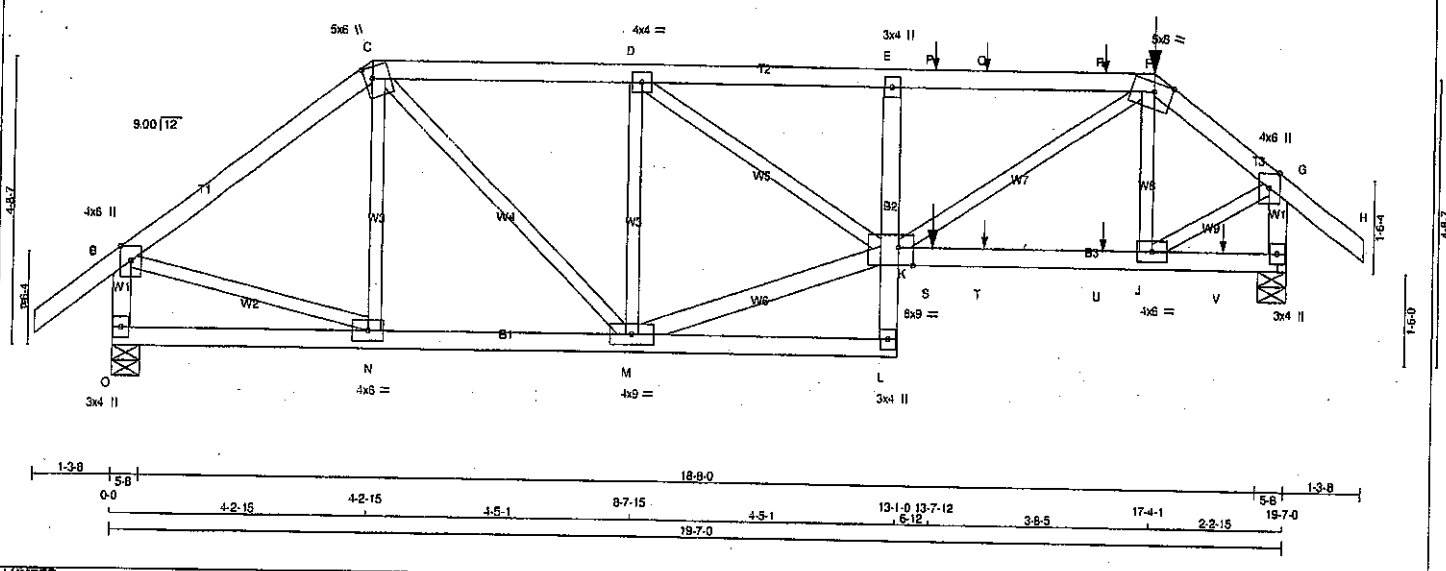
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.20 (H) (INPUT = 0.90)
JSI METAL= 0.12 (C) (INPUT = 1.00)



Structural component only
DWG# T-2006243



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER
A - C	2x4	DRY	No.2
C - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
O - B	2x4	DRY	No.2
I - G	2x4	DRY	No.2
O - L	2x4	DRY	No.2
L - E	2x4	DRY	No.2
K - I	2x4	DRY	No.2

ALL WEBS EXCEPT	SIZE	DRY	LUMBER
M - K	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	6.0	Edge	
C	TTWW+m	MT20	5.0	6.0	2.25	1.50
D	TMVW-t	MT20	4.0	4.0		
E	TMV+p	MT20	3.0	4.0		
F	TTWW-m	MT20	5.0	8.0	Edge	3.50
G	TMVW+p	MT20	4.0	6.0	Edge	
I	BMV1+p	MT20	3.0	4.0		
J	BMVW-t	MT20	4.0	6.0		
K	BMVWW-t	MT20	6.0	9.0	Edge	3.00
L	BMV+p	MT20	3.0	4.0		
M	BMVWW-t	MT20	4.0	9.0		
N	BMVW-t	MT20	4.0	6.0		
O	BMV1+p	MT20	3.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD IN-SX
	VERT	HORZ	DOWN	HORZ		
O	1210	0	1210	0	5-8	5-8
I	1239	0	1239	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST CASE		MAX. MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
O	854	574.0	0.0	0.0	0.0	280.0	0.0
I	873	589.0	0.0	0.0	0.0	284.0	0.0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.74 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (7)

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 / 38	-91.8	-91.8 0.14 (1)	10.00	N-C	-140 / 20	0.05 (1)
B-C	-1043 / 0	-91.8	-91.8 0.35 (1)	5.68	C-M	0 / 573	0.14 (1)
C-D	-1236 / 0	-91.8	-91.8 0.32 (5)	5.39	M-D	-742 / 0	0.25 (1)
D-E	-1683 / 0	-91.8	-91.8 0.33 (5)	4.74	K-F	0 / 1100	0.27 (1)
E-F	-1698 / 0	-91.8	-91.8 0.29 (1)	4.76	J-F	-319 / 0	0.06 (1)
F-G	-1698 / 0	-91.8	-91.8 0.29 (1)	4.76	B-N	0 / 883	0.21 (1)
G-H	-1698 / 0	-91.8	-91.8 0.29 (1)	4.76	J-G	0 / 887	0.22 (1)
H-I	-1698 / 0	-91.8	-91.8 0.29 (1)	4.76	M-K	0 / 1278	0.23 (1)
I-J	-992 / 0	-91.8	-91.8 0.10 (1)	6.13	D-K	0 / 541	0.13 (1)
J-K	0 / 38	-91.8	-91.8 0.14 (1)	10.00			
K-L	-1178 / 0	0.0	0.0 0.13 (1)	7.32			
L-M	-1231 / 0	0.0	0.0 0.14 (1)	7.20			
M-N	0 / 0	-18.5	-18.5 0.09 (4)	10.00			
N-M	0 / 829	-18.5	-18.5 0.19 (1)	10.00			
M-L	0 / 30	-18.5	-18.5 0.09 (4)	10.00			
L-K	0 / 36	0.0	0.0 0.07 (1)	10.00			
K-E	-420 / 0	0.0	0.0 0.07 (1)	7.81			
K-S	0 / 779	-18.5	-18.5 0.19 (1)	10.00			
S-T	0 / 779	-18.5	-18.5 0.19 (1)	10.00			
T-U	0 / 779	-18.5	-18.5 0.19 (1)	10.00			
U-V	0 / 779	-18.5	-18.5 0.19 (1)	10.00			
V-W	0 / 0	-18.5	-18.5 0.08 (4)	10.00			
W-V	0 / 0	-18.5	-18.5 0.08 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC	LC1	MAX-	MAX+	FACE	DIR	TYPE	COM
F	17-4-1	-	-	-	FRONT	VERT	DEAD	C1
P	13-7-12	-	-	-	FRONT	VERT	SNOW	C1
Q	14-6-4	-	-	-	FRONT	VERT	TOTAL	C1
R	16-8-4	-	-	-	FRONT	VERT	TOTAL	C1
S	13-7-12	-	-	-	FRONT	VERT	TOTAL	C1
T	14-6-4	-	-	-	FRONT	VERT	TOTAL	C1
U	16-8-4	-	-	-	FRONT	VERT	TOTAL	C1
V	18-6-4	-	-	-	FRONT	VERT	TOTAL	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

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

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 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

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF RCBC 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 (0.65")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.65")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSK: TC=0.35-1.00 (B-C:1), BC=0.19-1.00 (M-N:1), WS=0.27-1.00 (F-K:1), SS=0.21-1.00 (C-O:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

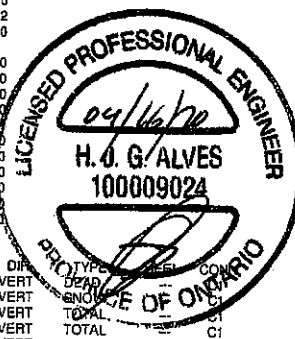
PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618 354 1667 788 1987 1656	

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.90 (B) (INPUT = 0.90)
JSI METAL = 0.55 (B) (INPUT = 1.00)

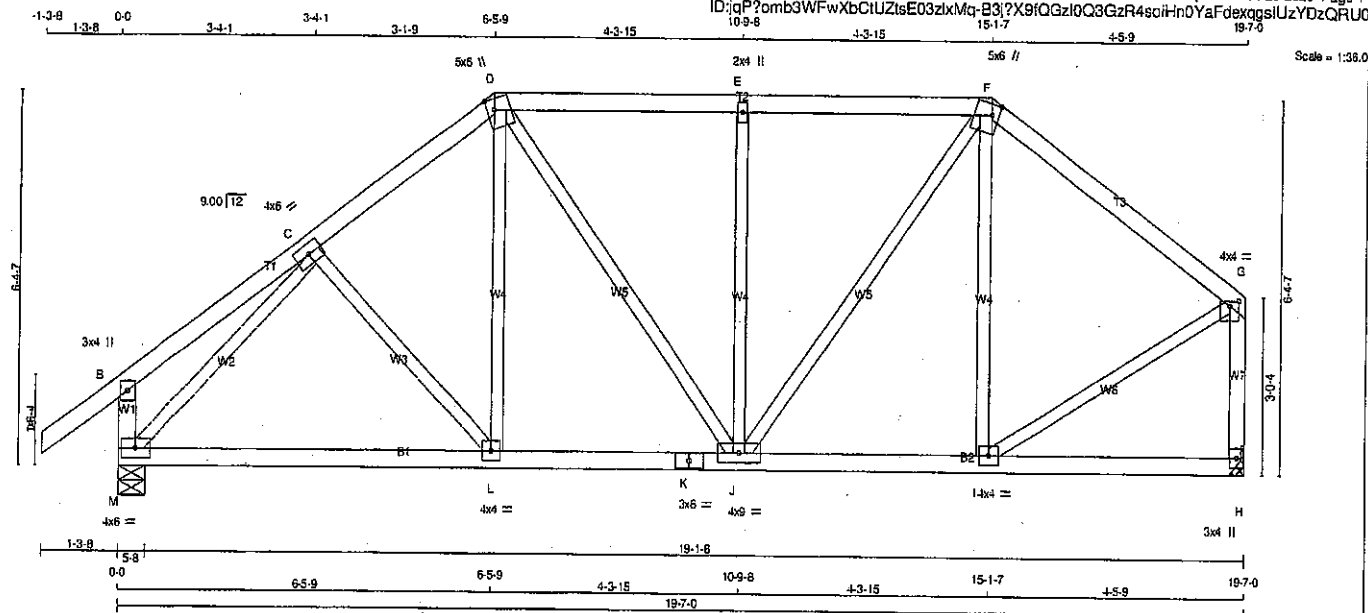
Structural component only
DWG# T-2006247



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408147	T22	1	1	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MiTek Industries, Inc. Wed Apr 15 15:52:29 2020 Page 1



LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - G	2x4	DRY	No.2
M - B	2x4	DRY	No.2
H - G	2x4	DRY	No.2
M - K	2x4	DRY	No.2
K - H	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2 EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMWW-t	MT20	4.0	6.0		
D	TTWW+m	MT20	5.0	6.0	2.25	1.50
E	TMW-w	MT20	2.0	4.0		
F	TTWW+m	MT20	5.0	6.0	2.25	1.50
G	TMW-w	MT20	4.0	4.0	1.00	2.00
H	BMV+p	MT20	3.0	4.0		
I	BMWW-t	MT20	4.0	4.0		
J	BMWW-t	MT20	4.0	9.0		
K	BS-t	MT20	3.0	6.0		
L	BMWW-t	MT20	4.0	4.0		
M	BMWW-t	MT20	4.0	8.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD
	VERT	DOWN	BRG	BRG
M	1205	0	5-8	5-8
H	1080	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN	COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
M	851	572.0	0.0	0.0	0.0	0.0	0.0	279.0	0.0
H	763	501.0	0.0	0.0	0.0	0.0	0.0	262.0	0.0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.13 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0.38	-91.8	-91.8 0.12 (1)	10.00	C-L	-50.24	0.02 (1)
B-C	0.19	-91.8	-91.8 0.14 (1)	10.00	L-D	0.162	0.04 (4)
C-D	-998.0	-91.8	-91.8 0.12 (1)	6.13	D-J	0.191	0.04 (1)
D-E	-894.0	-91.8	-91.8 0.22 (1)	6.24	J-E	-483.0	0.32 (1)
E-F	-894.0	-91.8	-91.8 0.22 (1)	6.24	J-F	0.469	0.11 (1)
F-G	-785.0	-91.8	-91.8 0.24 (1)	6.25	F-F	-270.0	0.18 (1)
M-B	-242.0	0.0	0.0 0.03 (1)	7.81	M-C	-1225.0	0.45 (1)
H-G	-1048.0	0.0	0.0 0.17 (1)	7.69	I-G	0.727	0.16 (1)
M-L	0.815	-18.5	-18.5 0.23 (4)	10.00			
L-K	0.784	-18.5	-18.5 0.24 (4)	10.00			
K-J	0.784	-18.5	-18.5 0.24 (4)	10.00			
J-I	0.622	-18.5	-18.5 0.16 (1)	10.00			
I-H	0.0	-18.5	-18.5 0.10 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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 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 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.65")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.65")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.24/1.00 (F-G:1), BC=0.24/1.00 (J-L:4), WB=0.45/1.00 (C-M:1), SSI=0.19/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

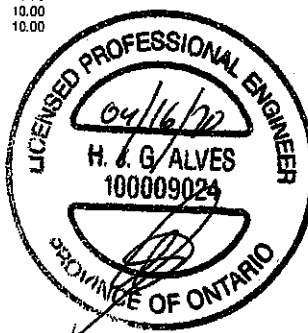
NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.69 (G) (INPUT = 0.90)
JSI METAL = 0.30 (C) (INPUT = 1.00)



Structural component only
DWG# T-2006248

JOB NAME Tamarack Roof Truss, Burlington
TRUSS NAME T23
QUANTITY 1
PLY 1
JOB DESC. GREEN PARK HOMES
TRUSS DESC.

Version 8.310 5 Oct 29 2019 MTek Industries, Inc. Wed Apr 15 15:52:30 2020 Page 1
ID:qP?omb3WfWxXbCtUzTsE03zhMq-fFHOKLg21GQI2Dr9?nN1EUKAQ_agNSUp5PEX4fzQRU?

Scale: 1/2" = 1'

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

PLATES (table is in inches)
JT TYPE PLATES W LEN Y X
B TMVW+p MT20 5.0 8.0 Edge
C TTWW+m MT20 5.0 8.0 2.25 1.50
D TMVW+w MT20 2.0 4.0
E TTWW+m MT20 5.0 6.0 2.25 1.50
F TMVW+p MT20 5.0 6.0 Edge
H BMV1+p MT20 3.0 6.0
J BMVW+t MT20 5.0 6.0
K BMVW-t MT20 5.0 8.0
L BMV1+p MT20 3.0 6.0
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER
BEARINGS
FACTORED MAXIMUM FACTORED INPUT RECD
GROSS REACTION GROSS REACTION BRG BRG
JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX
L 1470 0 1470 0 0 5-8 5-8
H 985 0 985 0 0 5-8 5-8

UNFACTORED REACTIONS
1ST LCASE MAX./MIN. COMPONENT REACTIONS
JT COMBINED SNOW LIVE PERMLIVE WIND DEAD SOIL
L 1033 717 / 0 0 0 0 0 313 0 0 0
H 693 475 / 0 0 0 0 0 218 0 0 0

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.66 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING
TOTAL LOAD CASES: (4)

CHORDS
MEMB. MAX. FACTORED FORCE (LBS) VERT. LOAD (PL) MAX. CS1 (LC) MAX. UNBRACED LENGTH FR-TO

WEBS
MEMB. MAX. FACTORED FORCE (LBS) MAX. CS1 (LC)

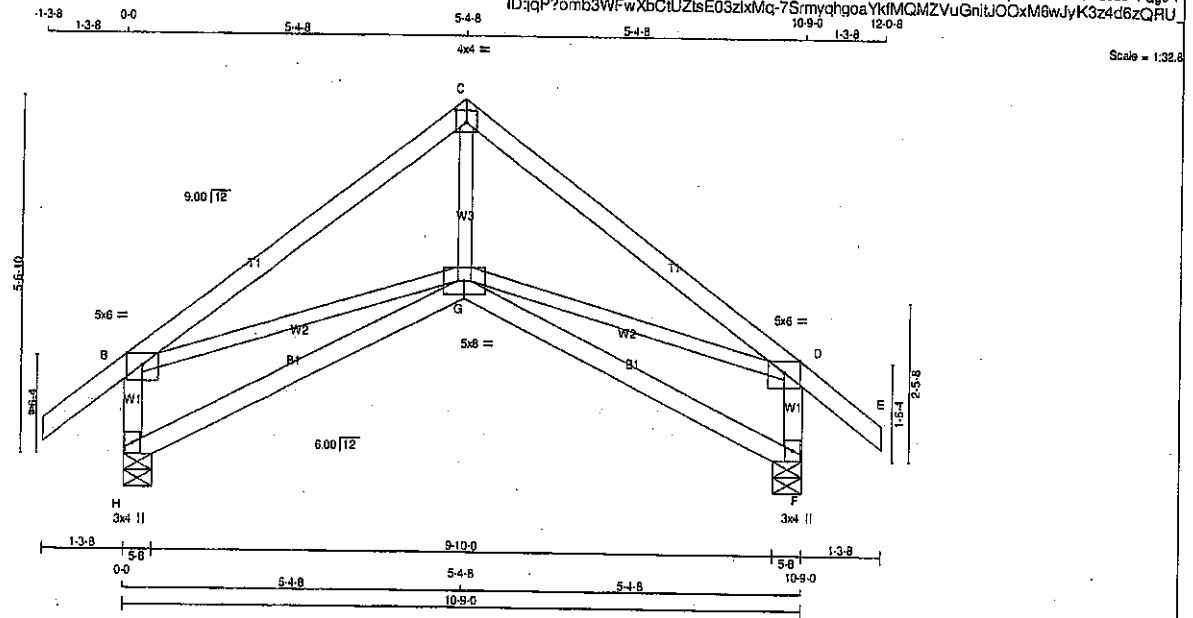
FACTORED CONCENTRATED LOADS (LBS)
JT LOC. LC1 MAX. MAX+ FACE DIR. TYPE HEEL CONN.
C 3-4-4 -19 -21 --- FRONT VERT DEAD --- C1
C 3-4-4 -90 -90 --- FRONT VERT SNOW --- C1
M 1-0-12 -7 -7 --- FRONT VERT TOTAL --- C1
N 2-2-8 -644 -644 --- FRONT VERT TOTAL --- C1

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

DESIGN CRITERIA
*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT NO FURTHER MODIFICATIONS WERE MADE
SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF DL = 6.0 PSF
BOT CH. LL = 0.0 PSF DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF
SPACING = 24.0 IN. O.C.
LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM
*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBC 2015
THIS DESIGN COMPLIES WITH:
- PART 9 OF 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 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD
ALLOWABLE DEFL.(LL)= L/360 (0.44")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.44")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")
CSI: TC=0.22/1.00 (B-C:1), BC=0.30/1.00 (K-L:1), WB=0.24/1.00 (B-K:1), SSL=0.33/1.00 (K-L:1)
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00
COMPANION LIVE LOAD FACTOR = 1.00
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 878 354 1567 788 1987 1656
PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP= 0.64 (F) (INPUT = 0.80)
JSI METAL= 0.46 (B) (INPUT = 1.00)
Structural component only
DWG# T-2006249

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

JOB NAME 408147	TRUSS NAME T24S	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



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

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

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	Edge	
C	ITWV-p	MT20	4.0	4.0	2.25	2.00
D	TMVW-p	MT20	5.0	8.0	Edge	
F	BMV1-p	MT20	3.0	4.0		
G	BBWWV-p	MT20	5.0	8.0		
H	BMV1-p	MT20	3.0	4.0		

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
H	719	0	719	0	0	5-8	5-8	5-8	5-8
F	719	0	719	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
H	506	346 / 0	0 / 0	0 / 0	0 / 0	161 / 0	0 / 0		
F	506	346 / 0	0 / 0	0 / 0	0 / 0	161 / 0	0 / 0		

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

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

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

LOADING		TOTAL LOAD CASES: (4)		CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 38	-91.8	-91.8 0.12 (1)	10.00	G-C	0 / 376	0.08 (1)
B-C	-724 / 0	-91.8	-91.8 0.35 (1)	8.25	B-G	0 / 595	0.13 (1)
C-D	-724 / 0	-91.8	-91.8 0.35 (1)	8.25	G-D	0 / 595	0.13 (1)
D-E	0 / 38	-91.8	-91.8 0.12 (1)	10.00			
H-B	-669 / 0	0.0	0.0 0.07 (1)	7.81			
F-D	-669 / 0	0.0	0.0 0.07 (1)	7.81			
H-G	0 / 0	-18.5	-18.5 0.16 (4)	10.00			
G-F	0 / 0	-18.5	-18.5 0.16 (4)	10.00			

TOTAL WEIGHT = 3 X 47 = 140 lb (M/F)

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 (0.36")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.36")
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.35/1.00 (B-C:1), BC=0.18/1.00 (G-H:4), WB=0.13/1.00 (B-G:1), SS=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

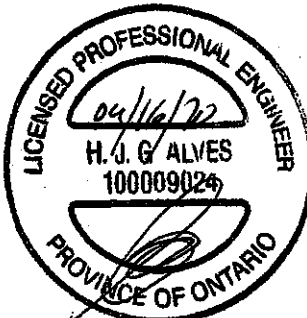
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.67 (C) (INPUT = 0.90)
JSI METAL = 0.19 (F) (INPUT = 1.00)

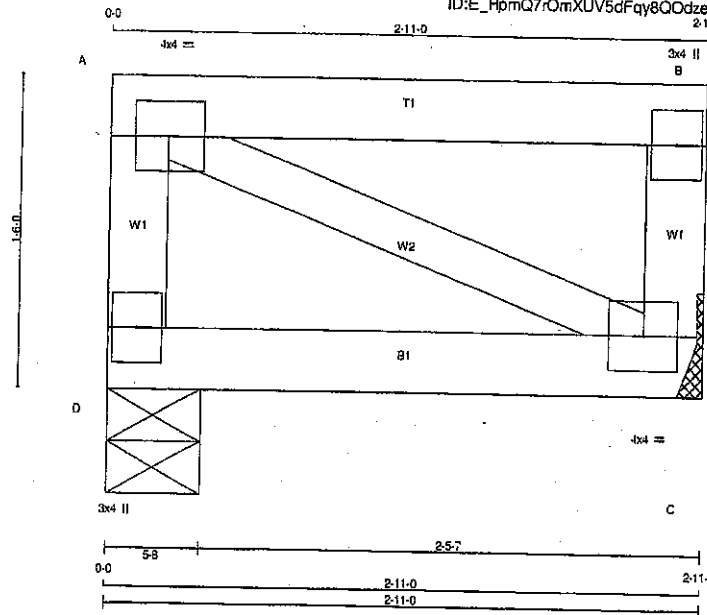


Structural component only
DWG# T-2006250

JOB NAME 408148	TRUSS NAME T33	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
--------------------	-------------------	---------------	----------	-------------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Wed Apr 15 15:57:10 2020 Page 1
ID:E_HpmQ7:OmXUV5dFqy8QOdzeIn-S7CEVE3h5lIBeFFzPoPhbXw0IsB1z8U1Uz3LvRzQRPd



Scale = 1:10.1

TOTAL WEIGHT = 11 lb

LUMBER

N. L. G. A. RULES

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

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

DESCR.
SPF
SPF
SPF
SPF

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

PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
D	228	0	228	0
C	228	0	228	0

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
D	166	75/0	0/0	0/0	0/0	92/0	0/0
C	166	75/0	0/0	0/0	0/0	92/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
D-A	-199.0	0.0 0.0 0.03 (1)	A-C	0.0 0.00 (1)
A-B	0.0	-136.8 -136.8 0.30 (1)		
C-B	-199.0	0.0 0.0 0.03 (1)		
D-C	0.0	-18.5 -18.5 0.07 (4)		

DESIGN CRITERIA

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

SPECIFIED LOADS:

TOP CH.	LL = 25.6 PSF
	DL = 15.0 PSF
BOT CH.	LL = 0.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 48.0 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.00/12

*** NON STANDARD GIRDER ***

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

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

THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.30/1.00 (A-B:1), BC=0.07/1.00 (C-D:4),
WB=0.03/1.00 (A-C:1), SSI=0.24/1.00 (A-B:1)

DOL LUMBER=0.96 NAIL=0.95 LS BEND=1.00
COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00
FLAT ROOF FACTOR = 0.75

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

NAIL VALUES

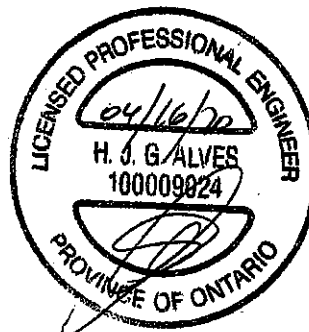
PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MT20	618	354	1867 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.17 (A) (INPUT = 0.90)
JSI METAL = 0.04 (A) (INPUT = 1.00)

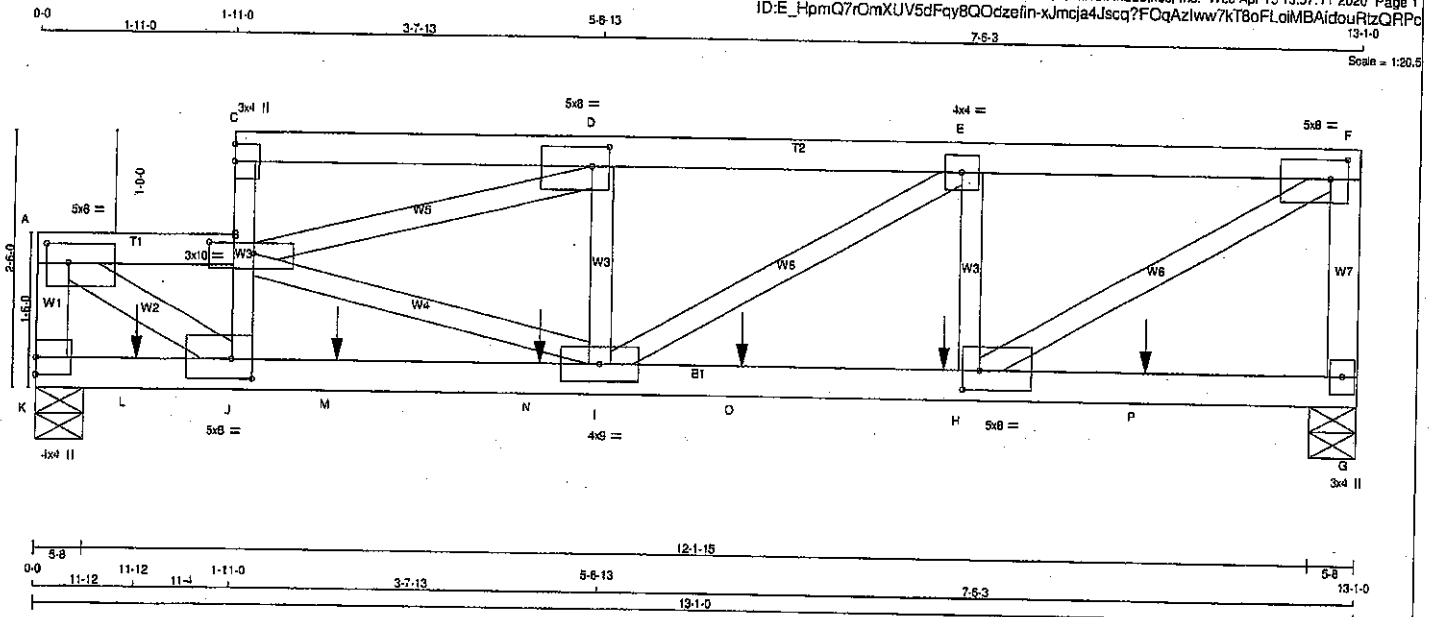
Structural component only
DWG# T-2006252



JOB NAME 408148	TRUSS NAME T34	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
--------------------	-------------------	---------------	----------	-------------------------------	-------------	----------

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Wed Apr 15 15:57:11 2020 Page 1
ID: E_HpmQ7OmXUV5dFqy8QOdzeIn-xJmca4Jscq?FCQAzlww7kT8oFlaiMBAidouRtzQRPc



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
K - A	2x4	DRY	No.2
A - B	2x4	DRY	No.2
J - C	2x3	DRY	No.2
C - F	2x4	DRY	No.2
G - F	2x4	DRY	No.2
K - G	2x4	DRY	1650F 1.5E
ALL WEBS	2x3	DRY	No.2
EXCEPT	A - J	2x4	DRY
DRY: SEASONED LUMBER.			

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
A	TMVW-1	MT20	5.0	8.0	2.25 2.50
B	TMVWW-1	MT20	3.0	10.0	1.25 5.25
C	TMVW-p	MT20	3.0	4.0	
D	TMVWW-1	MT20	5.0	8.0	2.25 2.00
E	TMVWW-1	MT20	4.0	4.0	
F	TMVW-1	MT20	5.0	8.0	2.25 2.00
G	BMV1+p	MT20	3.0	4.0	
H	BMVWW-1	MT20	5.0	8.0	2.25 2.00
I	BMVWW-1	MT20	4.0	9.0	
J	BMVW-1	MT20	5.0	8.0	2.25 2.50
K	BMV1+p	MT20	4.0	4.0	

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

PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
K	1773	0	1773	0	5-8
G	1711	0	1711	0	5-8

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
K	1280	595 / 0	0 / 0	0 / 0	0 / 0	0 / 0	585 / 0	0 / 0
G	1233	678 / 0	0 / 0	0 / 0	0 / 0	0 / 0	555 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.18 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		
K-A	-1689 / 0	0.0	0.0 0.25 (1)	5.62	A-J	0 3406	0.80 (1)
A-B	-2928 / 0	-114.3	-114.3 0.31 (1)	3.26	B-D	-2838 / 0	1.00 (1)
J-B	-1293 / 0	0.0	0.0 0.39 (1)	4.88	B-I	-74 / 0	0.03 (1)
B-C	-170 / 0	0.0	0.0 0.32 (1)	7.81	I-D	0 412	0.14 (1)
C-D	-72 / 0	-114.3	-114.3 0.25 (1)	6.25	I-E	0 451	0.15 (1)
D-E	-2789 / 0	-114.3	-114.3 0.48 (1)	3.19	H-E	-702 / 0	0.16 (1)
E-F	-2416 / 0	-114.3	-114.3 0.47 (1)	3.40	H-F	0 -2785	0.92 (1)
G-F	-1572 / 0	0.0	0.0 0.28 (1)	5.80			
K-L	0 / 0	-18.5	-18.5 0.14 (1)	10.00			
L-J	0 / 0	-18.5	-18.5 0.14 (1)	10.00			
J-M	0 2849	-18.5	-18.5 0.80 (1)	10.00			
M-N	0 2849	-18.5	-18.5 0.90 (1)	10.00			
N-I	0 2849	-18.5	-18.5 0.80 (1)	10.00			
I-O	0 2416	-18.5	-18.5 0.71 (1)	10.00			
O-H	0 2416	-18.5	-18.5 0.71 (1)	10.00			
H-P	0 / 0	-18.5	-18.5 0.42 (1)	10.00			
P-G	0 / 0	-18.5	-18.5 0.42 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LOC	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
H	8-11-12	-308	-308	---	FRONT	VERT	TOTAL	---	C1
L	11-12	-208	-208	---	FRONT	VERT	TOTAL	---	C1
M	2-11-12	-308	-308	---	FRONT	VERT	TOTAL	---	C1
N	4-11-12	-308	-308	---	FRONT	VERT	TOTAL	---	C1
O	8-11-12	-308	-308	---	FRONT	VERT	TOTAL	---	C1
P	10-11-12	-308	-308	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 52 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	= 25.6	PSF
	DL	= 15.0	PSF
BOT CH.	LL	= 0.0	PSF
	DL	= 7.4	PSF
TOTAL LOAD	=	48.0	PSF

SPACING = 24.0 IN. C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 0.00/12

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 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 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL)	=	L/360 (0.44")
CALCULATED VERT. DEFL. (LL)	=	L/399 (0.07")
ALLOWABLE DEFL. (TL)	=	L/360 (0.44")
CALCULATED VERT. DEFL. (TL)	=	L/394 (0.16")

CSK: TC=0.47/1.00 (E-F:1), BC=0.80/1.00 (I-J:1), WB=1.00/1.00 (B-C:1), SS=0.45/1.00 (H-I: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
FLAT ROOF FACTOR = 0.75

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

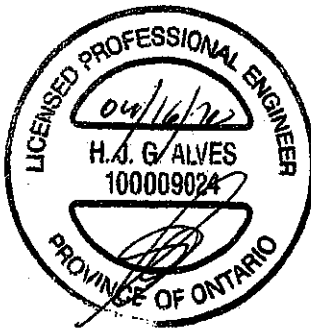
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
MT20	618	354	1867

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (F) (INPUT = 0.90)
JSI METAL= 0.77 (D) (INPUT = 1.00)

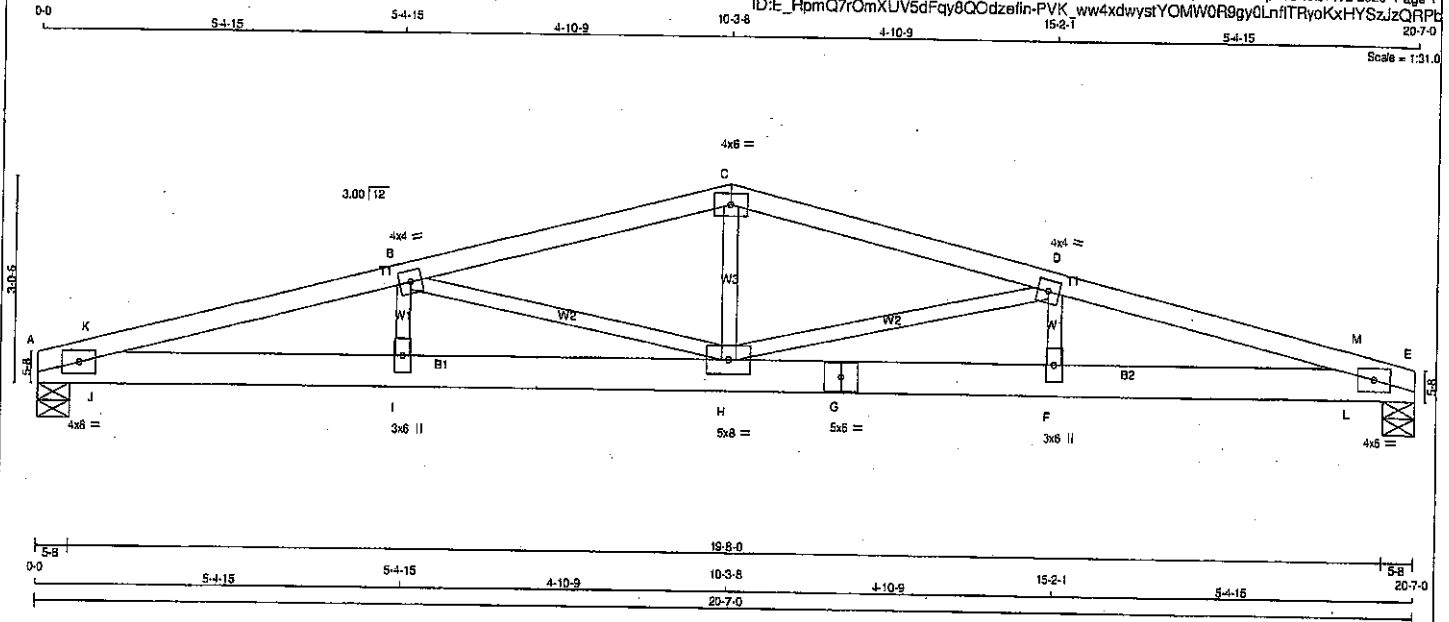


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408148	T35	1	1	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Wed Apr 15 15:57:12 2020 Page 1

ID:E_HpmQ7rOmXUV5dFqy8QOdzelin-PVK_ww4xdwystYOMW0R9gy0LnftTRyoKxHYszJzQRp



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

PLATES (tablets in inches)	JT TYPE	PLATES	W	LEN	Y	X
A	TMB1-I	MT20	4.0	6.0		
B	TMWW-t	MT20	4.0	4.0		
C	TTW-p	MT20	4.0	6.0		
D	TMWW-t	MT20	4.0	4.0		
E	TMB1-I	MT20	4.0	6.0		
F	BMW-w	MT20	3.0	8.0		
G	BS-t	MT20	5.0	6.0		
H	BMWW-t	MT20	5.0	8.0		
I	BMW-w	MT20	3.0	6.0		

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
A	1135	0	1135	0
E	1135	0	1135	0

UNFACTORED REACTIONS

JT	1ST CASE	2ND CASE	3RD CASE	4TH CASE	5TH CASE	6TH CASE	7TH CASE	8TH CASE
A	802	527.0	0.0	0.0	0.0	0.0	276.0	0.0
E	802	527.0	0.0	0.0	0.0	0.0	276.0	0.0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.97 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 VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	MAX. FACTORED UNBRACED LENGTH	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)
FR-TO							FR-TO			
A-K	-3281.0	-91.8	-91.8	0.18 (1)	3.75	H-C	0.748	0.17 (1)		
K-B	-3223.0	-91.8	-91.8	0.32 (1)	3.67	H-D	-921.0	0.40 (1)		
B-C	-2328.0	-91.8	-91.8	0.33 (1)	4.20	F-D	-9.69	0.02 (4)		
C-D	-2328.0	-91.8	-91.8	0.33 (1)	4.20	B-H	-921.0	0.40 (1)		
D-M	-3223.0	-91.8	-91.8	0.32 (1)	3.67	I-B	-9.69	0.02 (4)		
M-E	-3281.0	-91.8	-91.8	0.18 (1)	3.75	J-K	-28.43	0.00 (1)		
A-J	0.3132	-18.5	-18.5	0.43 (1)	10.00	L-M	-28.43	0.00 (1)		
J-I	0.3132	-18.5	-18.5	0.52 (1)	10.00					
I-H	0.3132	-18.5	-18.5	0.51 (1)	10.00					
H-G	0.3132	-18.5	-18.5	0.51 (1)	10.00					
G-F	0.3132	-18.5	-18.5	0.51 (1)	10.00					
F-L	0.3132	-18.5	-18.5	0.52 (1)	10.00					
L-E	0.3132	-18.5	-18.5	0.43 (1)	10.00					

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. 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 BCRC 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 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.69")
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
ALLOWABLE DEFL.(TL) = L/360 (0.69")
CALCULATED VERT. DEFL.(TL) = L/873 (0.28")

CSI: TC=0.33/1.00 (B-C:1), BC=0.52/1.00 (I-J:1),

WB=0.40/1.00 (B-H:1), SI=0.20/1.00 (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)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1567 788 1987 1656

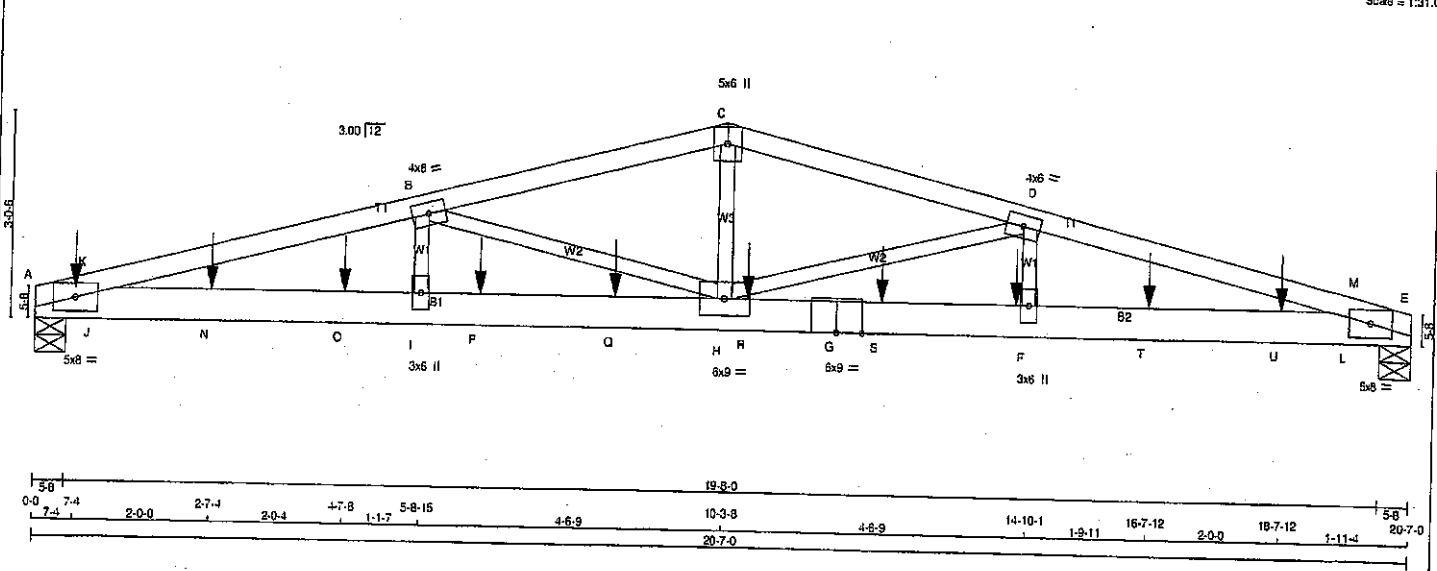
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.76 (E) (INPUT = 0.90)
JSI METAL = 0.73 (A) (INPUT = 1.00)



Structural component only
DWG# T-2006254



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
A - G	2x6	DRY	1650F 1.5E
G - E	2x6	DRY	1650F 1.5E

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

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C 1 12	TOP	
C - E 1 12	TOP	
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
A - G 2 12	SIDE(0.0)	
G - E 2 12	SIDE(183.1)	
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1 6		

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A	TMB1-I	MT20	5.0	8.0	
B	TWVW-I	MT20	4.0	6.0	
C	TTW+P	MT20	5.0	6.0	
D	TWVW-I	MT20	4.0	6.0	
E	TMB1-I	MT20	5.0	8.0	
F	BMW+W	MT20	3.0	6.0	
G	BS-I	MT20	6.0	9.0	
H	BMWVW-I	MT20	6.0	9.0	
I	BMW+W	MT20	3.0	6.0	

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	RECORD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
A	3775	0	3775	0	5-8	5-8
E	3203	0	3203	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST CASE COMBINED		MAX. MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM. LIVE	WIND			
A	2847	1865.0	0.0	0.0	0.0	782.0	0.0
E	2248	1575.0	0.0	0.0	0.0	873.0	0.0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.58 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
 TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRAC LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)		
FR-TO		FROM	TO						
A-K	-10604 / 0	-91.8	-91.8	0.36 (1)	2.75	H-C	0 / 3272	0.41 (1)	
K-B	-10343 / 0	-91.8	-91.8	0.68 (1)	2.58	H-D	-2394 / 0	0.47 (1)	
B-C	-7553 / 0	-91.8	-91.8	0.40 (1)	3.30	F-D	0 / 886	0.11 (1)	
C-D	-7552 / 0	-91.8	-91.8	0.41 (1)	3.28	B-H	-2852 / 0	0.55 (1)	
D-M	-9891 / 0	-91.8	-91.8	0.61 (1)	2.72	I-B	0 / 1117	0.14 (1)	
M-E	-10103 / 0	-91.8	-91.8	0.36 (1)	2.82	J-K	0 / 663	0.00 (1)	
						L-M	0 / 497	0.00 (1)	
A-J	0 / 10039	-18.5	-18.5	0.48 (1)	10.00				
J-N	0 / 10039	-18.5	-18.5	0.67 (1)	10.00				
N-C	0 / 10039	-18.5	-18.5	0.67 (1)	10.00				
O-I	0 / 10039	-18.5	-18.5	0.67 (1)	10.00				
I-P	0 / 10039	-18.5	-18.5	0.57 (1)	10.00				
P-Q	0 / 10039	-18.5	-18.5	0.57 (1)	10.00				
Q-H	0 / 10039	-18.5	-18.5	0.57 (1)	10.00				
H-R	0 / 9595	-18.5	-18.5	0.55 (1)	10.00				
R-G	0 / 9595	-18.5	-18.5	0.55 (1)	10.00				
G-S	0 / 9595	-18.5	-18.5	0.55 (1)	10.00				
S-F	0 / 9595	-18.5	-18.5	0.55 (1)	10.00				
F-T	0 / 9595	-18.5	-18.5	0.80 (1)	10.00				
T-U	0 / 9595	-18.5	-18.5	0.60 (1)	10.00				
U-L	0 / 9595	-18.5	-18.5	0.60 (1)	10.00				
L-E	0 / 9595	-18.5	-18.5	0.39 (1)	10.00				

04/16/72

H. J. G. ALVES

100009024

LICENSED PROFESSIONAL ENGINEER

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC	LC1	MAX	MAX+	FACE	VERT	TOTAL	CS1
F	14-7-12	-507	-507	---	FRONT	VERT	TOTAL	C1
J	7-4	-510	-510	---	FRONT	VERT	TOTAL	C1
N	2-7-4	-507	-507	---	FRONT	VERT	TOTAL	C1
O	4-7-8	-507	-507	---	FRONT	VERT	TOTAL	C1
P	6-7-12	-507	-507	---	FRONT	VERT	TOTAL	C1
Q	8-7-12	-507	-507	---	FRONT	VERT	TOTAL	C1
R	10-7-12	-507	-507	---	FRONT	VERT	TOTAL	C1
S	12-7-12	-507	-507	---	FRONT	VERT	TOTAL	C1
T	16-7-12	-387	-387	---	FRONT	VERT	TOTAL	C1
U	18-7-12	-265	-265	---	TOP	VERT	TOTAL	C1

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

DESIGN CRITERIA

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

SPACING = 24.0 IN. GIC
 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 (0.69")
 CALCULATED VERT. DEFL.(LL) = L/981 (0.25")
 ALLOWABLE DEFL.(TL) = L/360 (0.69")
 CALCULATED VERT. DEFL.(TL) = L/559 (0.44")

CSI: TC=0.68/1.00 (B-K-1), BC=0.67/1.00 (I-J-1), WB=0.56/1.00 (B-H-1), SSI=0.33/1.00 (F-H-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

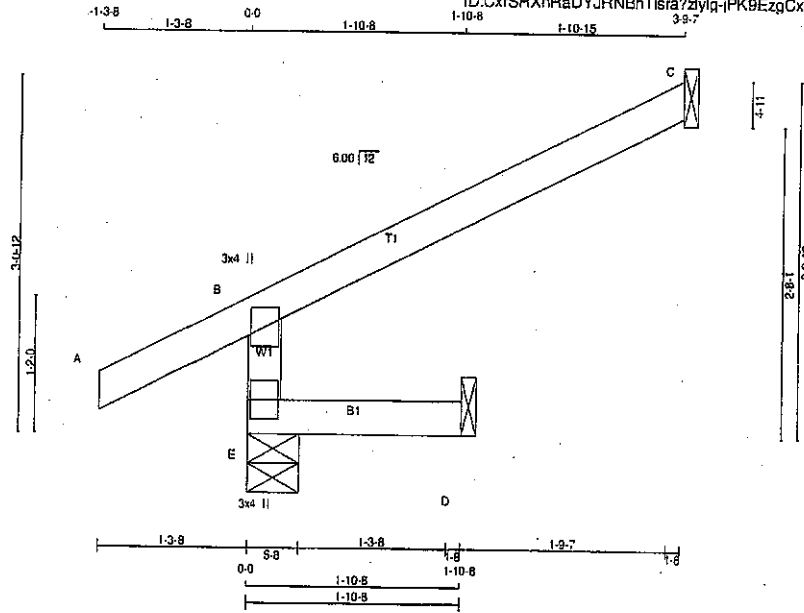
NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
 MAX MIN MAX MIN MAX MIN
 MT20 518 354 1667 789 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.85 (C) (INPUT = 0.90)
 JSI METAL = 0.87 (E) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408146	J2	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Wed Apr 15 14:02:19 2020 Page 1					
ID: CxrSRXnRaDYJRNhTisra?zdyloq-IPK9EzgCx2VvQFxaDsGkoM0P_2JqvYYkuNICYLzQT5I					
Scale = 1:16.2					



LUMBER

N. L. G. A. RULES

CHORDS SIZE

E - B 2x4 DRY

A - C 2x4 DRY

E - D 2x4 DRY

LUMBER

No.2

No.2

No.2

DESCR.

SPF

SPF

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	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
VERT	DOWN	DOWN	IN-SX	IN-SX
UP	UP	UP	IN-SX	IN-SX
E	361	361	5-8	5-8
C	130	130	1-8	1-8
D	16	17	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	250	190	0	0	0	0	0
C	90	73	0	0	0	17	0
D	12	0	0	0	0	12	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: (5)

MEMB.	CHORDS	WEBS
MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO	FROM TO	FROM TO
E-B	342 0	0 0
A-B	0 28	-91.8 -91.8
B-C	-19 0	-91.8 -91.8
E-D	0 0	-18.5 -18.5

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 10 = 19 LB

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

- PART 9 OF OBC 2012 (2019 AMENDMENT)

- CSA 086-09, CSA 086-14

- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

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

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

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

CSI: TC=0.22(1.00)(B-C:1), BC=0.02(1.00)(D-E:4),

WB=0.00(1.00)(A-B:0), SS=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 SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 618 354 1867 788 1987 1856

PLATE PLACEMENT TOL = 0.250 inches

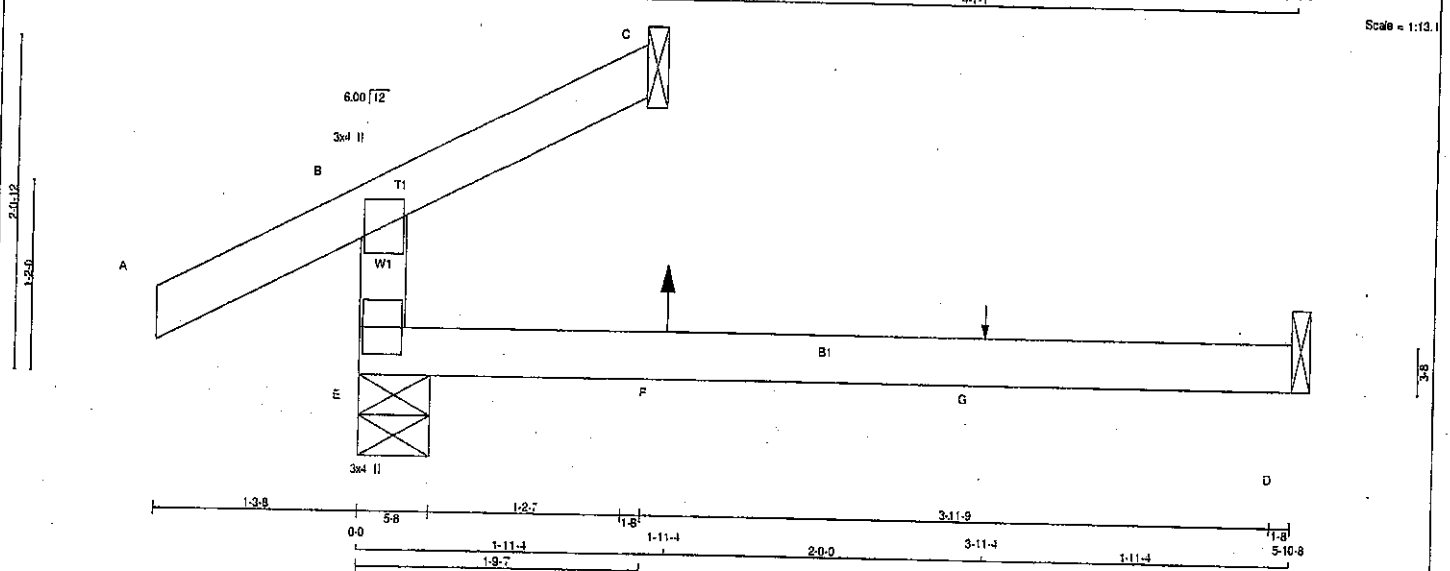
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.14 (E) INPUT = 0.90

JSI METAL= 0.09 (B) INPUT = 1.00



Structural component only
DWG# T-2006224



LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				DESIGN CRITERIA			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.	BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD	SPECIFIED LOADS:	
E - B	2x4	DRY	No.2	SPF	JT	GROSS REACTION	GROSS REACTION	BRG	BRG	TOP CH. LL = 25.6 PSF	
A - C	2x4	DRY	No.2	SPF	E	VERT	DOWN	IN-SX	IN-SX	DL = 6.0 PSF	
A - D	2x4	DRY	No.2	SPF	C	HORZ	UP	1-8	1-8	BOT CH. LL = 0.0 PSF	
					D			1-8	1-8	DL = 7.4 PSF	
DRY: SEASONED LUMBER.										TOTAL LOAD = 39.0 PSF	

PLATES (table is in inches)							SEE MITEK STANDARD DETAIL 897791H FOR CONNECTION TO JOINT(S) C - D							SPACING = 24.0 IN C/C		
JT	TYPE	PLATES	W	LEN	Y	X	UNFACTORED REACTIONS							THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCB 2010, NBCB 2015		
	TMV+p	MT20	3.0	4.0			1ST CASE							THIS DESIGN COMPLIES WITH:		
	6MV1+p	MT20	3.0	4.0			MAX. MIN. COMPONENT REACTIONS							PART 9 OF CBCB 2018 , OBC 2012 , ABC 2019		
JT	COMBINED						SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL				
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				

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

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				CHORDS				WEBS			
TOTAL LOAD CASES: (7)				MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED CS (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS (LBS)	
FR-TO				E-B	-227	0	0.0	0.0	0.11	7.81	
A-B				A-B	0	28	-91.8	-91.8	0.12	10.00	
B-C				B-C	9	9	-91.8	-91.8	0.08	10.00	
E-F				E-F	0	0	-18.5	-18.5	0.14	10.00	
F-G				F-G	0	0	-18.5	-18.5	0.14	10.00	
G-D				G-D	0	0	-18.5	-18.5	0.14	10.00	

FACTORED CONCENTRATED LOADS (LBS)										AUTOSOLVE RIGHT HEEL ONLY	
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.	TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.	
F	1-11-4	7	1	12	BACK	VERT	TOTAL	---	C1		
G	3-11-4	1	1	---	BACK	VERT	TOTAL	---	C1		

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

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")

CS: TC=0.12/1.00 (A-B:1), BC=0.14/1.00 (D-E:4), WB=0.00/1.00 (A-B:0), SS=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

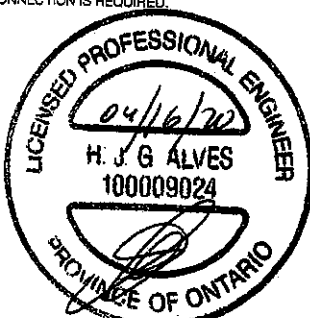
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PL) (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= 0.10 (E) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)

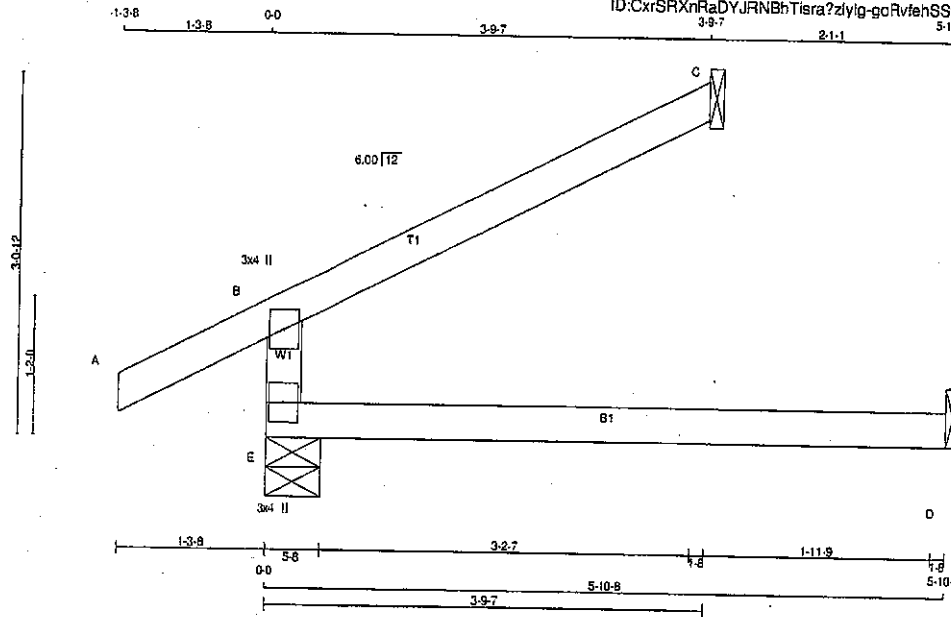
Structural component only
DWG# T-2006225



JOB NAME 408146	TRUSS NAME J4	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Wed Apr 15 14:02:22 2020 Page 1
ID: CxrSRXnRaDYJRNbTisra?zlylg-goRvlehSSfcrY5zLHJCtn6UayLNS11MgnJcDzQT5G

Scale = 1:17.9



LUMBER

N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	No.2
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

BEARINGS

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

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

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	286	190	0	0	0	98	0
C	90	73	0	0	0	17	0
D	36	0	0	0	0	36	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)	MAX. UNBRACED LENGTH (L)	MAX. FACTORED FORCE (LBS)	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (L)
FR-TO						FR-TO			
E-B	-342	0	0.0	0.13 (4)	7.81	E-B	-342	0	0.13 (4)
A-B	0	28	-91.8	-91.8 0.12 (1)	10.00	A-B	0	28	-91.8 0.12 (1)
B-C	-19	0	-91.8	-91.8 0.22 (1)	6.25	B-C	-19	0	0.22 (1)
E-D	0	0	-18.5	-18.5 0.13 (4)	10.00	E-D	0	0	0.13 (4)

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/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSF: 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

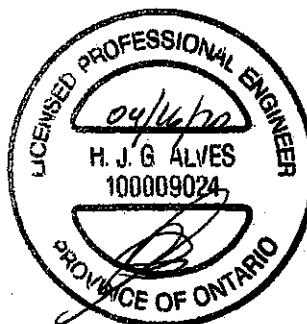
NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

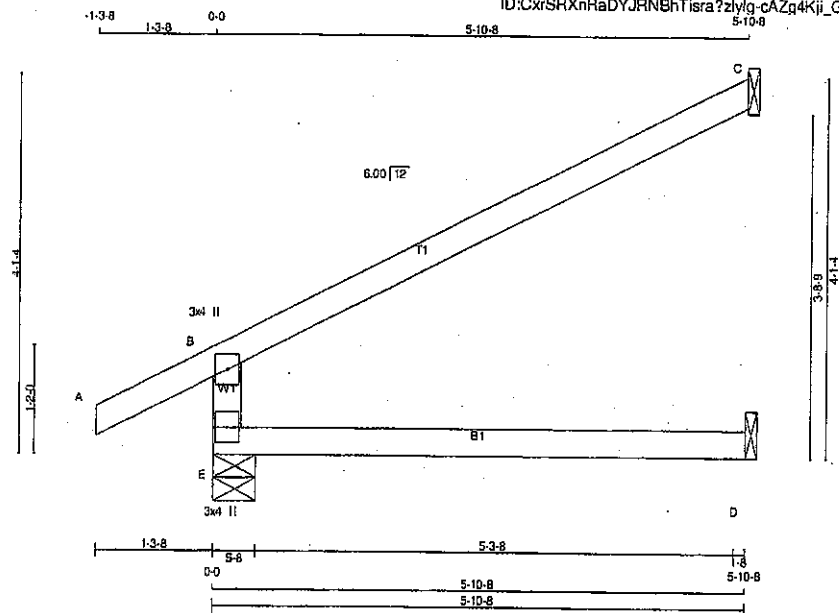
JSI GRIP = 0.14 (E) (INPUT = 0.90)
JSI METAL = 0.09 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006226

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408146	J5	11	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Wed Apr 15 14:02:23 2020 Page 1
ID:CxrSRXnRaDYJRNhTisra?2tlylg-cAZq4Kji_G?KusFLSiLgZCB01feprMXKp_GQh6zQT5E



Scale = 1:22.9

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		REQD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
E	525	0	525	0	0	5-8	5-8	
C	202	0	202	0	0	1-8	1-8	
D	46	0	50	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

JT	1ST CASE COMBINED		MAX. MIN. COMPONENT REACTIONS		PERM LIVE	WIND	DEAD	SOIL
	SNOW	LIVE	SNOW	LIVE				
E	369	257	0	0	0	0	111	0
C	139	113	0	0	0	0	29	0
D	36	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		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)
FR-TO				
E-B	-461	0	0	0
A-B	0	28	-91.8	-91.8
B-C	-30	0	-91.8	-91.8
E-D	0	0	-18.5	-18.5

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 089-09, CSA 086-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.54/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.09/1.00 (N/A:0), SSI=0.24/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

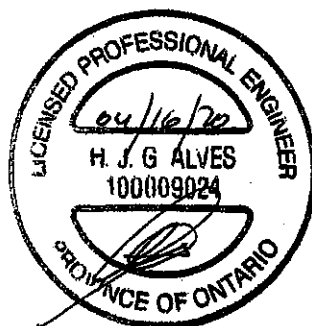
NAIL VALUES

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

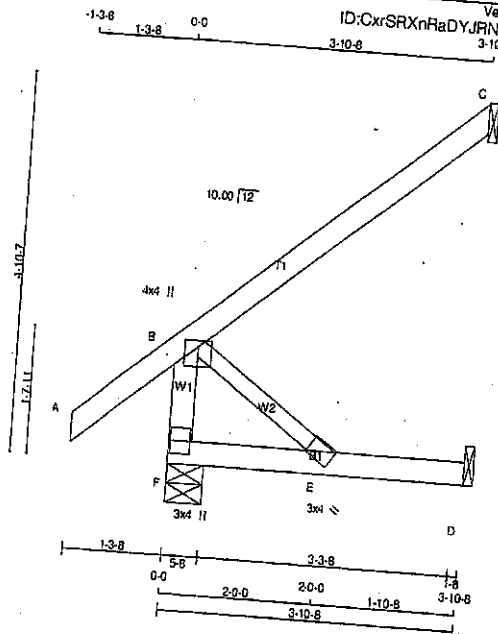
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



Structural component only
DWG# T-2006227



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	1.00	2.00
E	BMVW+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	MAXIMUM FACTORED GROSS REACTION	INPUT BRG IN-SX	REQD BRG IN-SX
F	341	341	5-8	5-8
C	178	178	5-8	5-8
D	35	40	1-8	1-8

SEE MITEK STANDARD DETAIL B67791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
F	239	170 0	0 0	0 0	69 0	0 0
C	122	99 0	0 0	0 0	23 0	0 0
D	29	0 0	0 0	0 0	29 0	0 0

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

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

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

LOADING
 TOTAL LOAD CASES: (5)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX CSI (LC)	MAX UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	TO			FR-TO			
F-B	-305.0	0.0	0.0	0.03 (1)	7.81	B-E	0.0	0.00 (1)	
A-B	0.41	-91.8	-91.8	0.14 (5)	10.00				
B-C	0.0	-91.8	-91.8	0.23 (1)	10.00				
C-E	0.0	-18.5	-18.5	0.08 (4)	10.00				
E-D	0.0	-18.5	-18.5	0.08 (4)	10.00				

CANTILEVER ANALYSIS HAS BE CONSIDERED IN THIS DESIGN



TOTAL WEIGHT = 6 X 16 = 93 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

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

CS1: TC=0.23/1.00 (B-C:1), BC=0.08/1.00 (E-F:4), WB=0.03/1.00 (B-E:1), SS=0.11/1.00 (B-C:1)

CS1: LUMBER=1.00 NAIL=1.00 LS BEND=1.10
 COMP=1.10 SHEAR=1.10 TENS=1.10

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE GRIP (H)	PLATE GRIP (V)	SHEAR (PS)	SECTION (PLI)
MAX	MIN	MAX	MIN
MT20	619	354	1667
	788	1987	1856

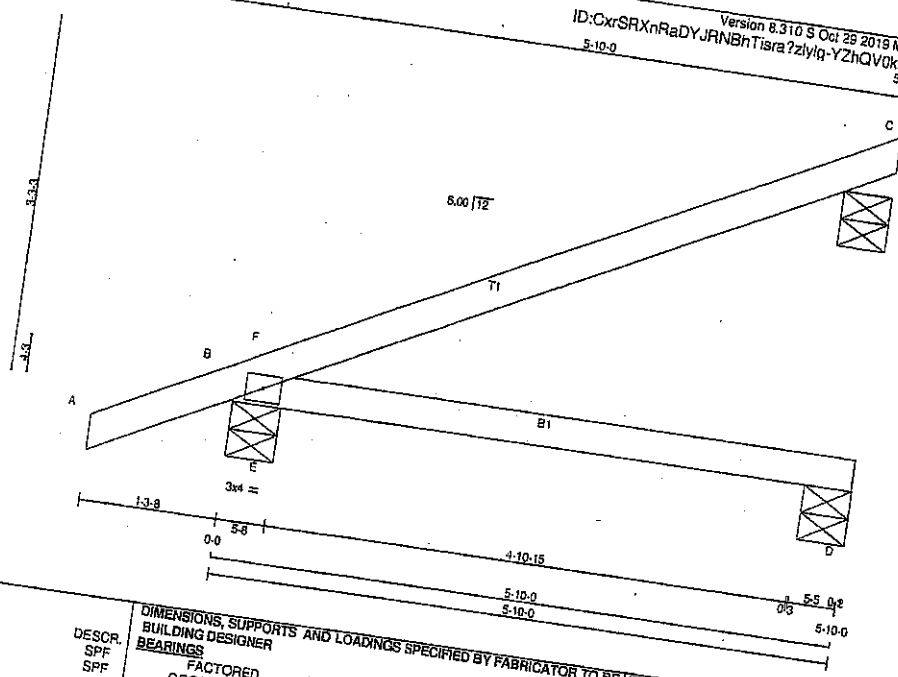
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.24 (8) (INPUT = 0.90)
 JSI METAL=0.05 (8) (INPUT = 1.00)

JOB NAME: 408146 TRUSS NAME: J7 QUANTITY: 7 PLY: 1 JOB DESC: GREEN PARK HOMES TRUSS DESC: Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Wed Apr 15 14:02:25 2020 Page 1
 ID: CxrSRXnRaDYJRNhTisra?zlyiq-YZhQV0kzWuG3BAPka7N82dGOaTl_JG1chIXm?zQT5C
 5-10-0
 Scale = 1:19.0



LUMBER

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

ATES (table is in inches)

TYPE	PLATES	W	LEN	Y	X
TM81-1	MT20	3.0	4.0		

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

FACTORED

JT	GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
C	235	235	5-8	5-8
D	446	446	5-8	5-8
E	67	67	5-8 (5-6)	5-8

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH
 BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): C

UNFACTORED REACTIONS

JT	1ST CASE	2ND CASE	MAX. MIN. COMPONENT REACTIONS	LIVE	PERM. LIVE	WIND	DEAD	SOIL
C	182	127.0	0.0	0.0	0.0	0.0	0.0	0.0
D	313	219.0	0.0	0.0	0.0	0.0	0.0	0.0
E	65	22.0	0.0	0.0	0.0	0.0	0.0	0.0

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
 ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING
 TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS1 (LC)	MAX. UNBRACED LENGTH FR-TO	MEMB. E-F	MAX. FORCE (LBS)	MAX. CS1 (LC)
FR-TO	0.26						
A-B	-29	-91.8	-91.8	10.00			
B-F	-6.2	-91.8	-91.8	6.25			
F-C		-91.8	-91.8	10.00			
B-E	0.0	-18.5	-18.5	0.27 (1)	10.00		
E-D	0.0	-18.5	-18.5	0.28 (1)	10.00		

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

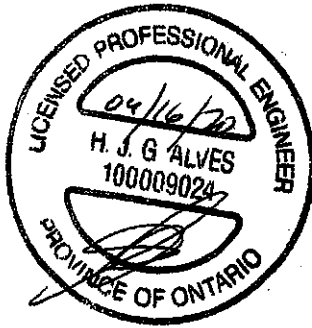
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015
 THIS DESIGN COMPLIES WITH:
 - PART 9 OF NBCC 2010, CBC 2012, ABC 2019
 - CSA 086-03, CSA 086-14
 - TPIC 2011, TRC 2014
 (55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.19")
 CALCULATED VERT. DEFL. (LL) = L/599 (0.07")
 ALLOWABLE DEFL. (TL) = L/360 (0.19")
 CALCULATED VERT. DEFL. (TL) = L/507 (0.14")
 CS1: 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=0.39:1.00 (B-E:1)
 DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
 COMP=1.10 SHEAR=1.10 TENS=1.10
 COMPANION LKE 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
 (PSD) (PLI)
 MAX. MIN. MAX. MIN.
 MT20 618 354 1667 788 1987 1656

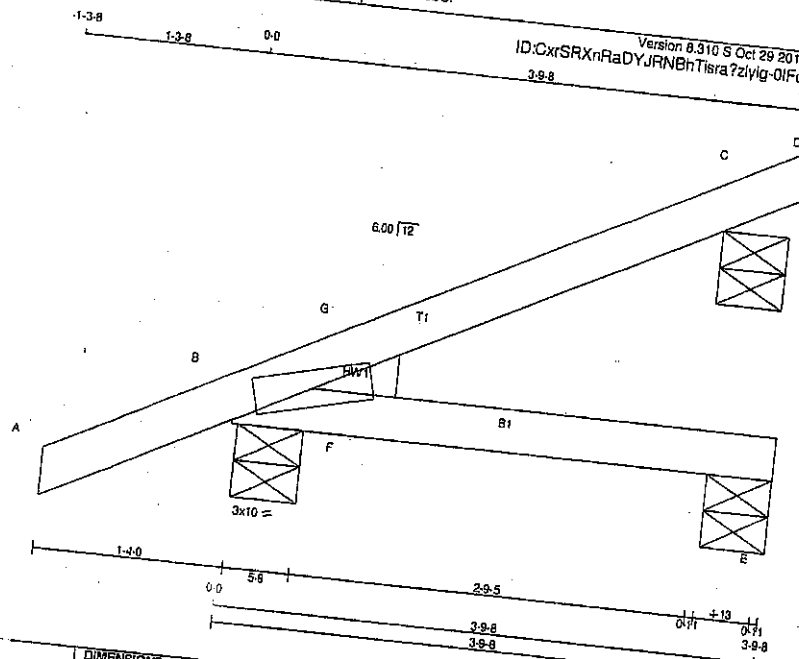
PLATE PLACEMENT TOL. = 0.250 inches
 PLATE ROTATION TOL. = 5.0 Deg.
 JSI GRIP = 0.36 (INPUT = 0.90)
 JSI METAL = 0.08 (INPUT = 1.00)



JOB NAME: 408146 TRUSS NAME: J8 QUANTITY: 4 PLY: 1 JOB DESC: GREEN PARK HOMES TRUSS DESC: Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Wed Apr 15 14:02:26 2020 Page 1
ID: CxrSRXnRaDYJRNbTisra7zilyg-0IFoIMbHBOVJ_w8quNaqpdWthg2HmVyU4IRzQT5E

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



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

FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG	HEEL
VERT	HORZ	DOWN	UP/LIFT	IN-SX
JT 322	0	322	0	5-8
B 57	0	57	0	5-8
C 169	0	169	0	5-8

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	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
B 226	160.0	0.0	0.0	0.0	65.0	0.0
E 42	16.0	0.0	0.0	0.0	27.0	0.0
C 117	90.0	0.0	0.0	0.0	27.0	0.0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, E, C
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	CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED FORCE (LBS)	W E B S	MAX. FACTORED FORCE (LBS)
TOTAL LOAD CASES: (5)	FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED FORCE (LBS)	W E B S	MAX. FACTORED FORCE (LBS)
	A-B	0.26	-91.8	-91.8	0.14 (5)	10.00	FR-TO
	B-G	-22.0	-91.8	-91.8	0.05 (1)	6.25	F-G
	G-C	0.7	-91.8	-91.8	0.14 (1)	10.00	
	C-D	-7.0	-91.8	-91.8	0.01 (1)	10.00	
	B-F	0.0	-18.5	-18.5	0.12 (1)	10.00	
	F-E	0.0	-18.5	-18.5	0.12 (1)	10.00	

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2018, NBCC 2015

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

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

ALLOWABLE DEF. (LL) = L/360 (0.19')
CALCULATED VERT. DEF. (LL) = L/999 (0.01')
ALLOWABLE DEF. (TL) = L/360 (0.19')
CALCULATED VERT. DEF. (TL) = L/999 (0.02')

CSI: TC=0.14/1.00 (C-G:1), BC=0.12/1.00 (B-F:1), WB=0.00/1.00 (F-G:1), SSI=0.10/1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

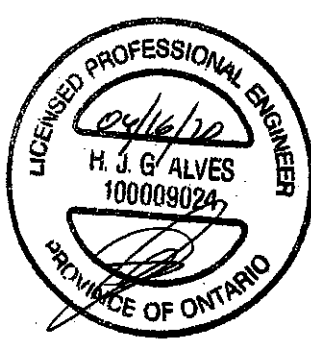
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

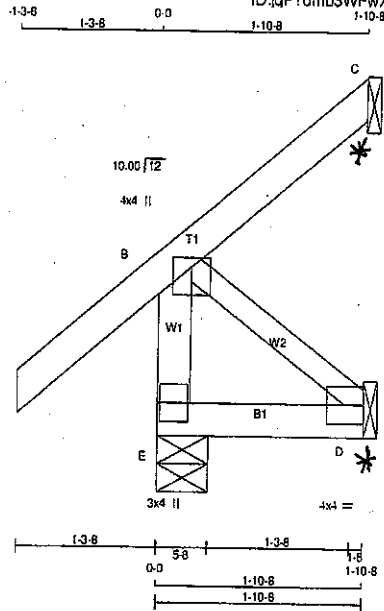
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.08 (8) (INPUT = 0.90)
JSI METAL = 0.0283 (INPUT = 1.00)



Structural component only
DWG#: T-2006230

JOB NAME 408147	TRUSS NAME J21	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



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
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	1.00	2.00
D BMV1-t	MT20	4.0	4.0	2.00	Edge
E BMV1-p	MT20	3.0	4.0		

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	VERT	HORZ	DOWN	HORZ
E	277	0	277	0
C	39	0	39	0
D	17	0	19	0

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

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

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	152	145/0	0/0	0/0	0/0	47/0	0/0
C	27	22/-26	0/0	0/0	0/0	5/0	0/0
D	13	0/0	0/0	0/0	0/0	13/0	0/0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	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												
E-B	-280/0	0.0	0.0	0.03 (1)	7.61	0.0	0.0	0.00 (1)				
A-B	0/41	-91.8	-91.8	0.13 (1)	10.00							
B-C	-30/0	-91.8	-91.8	0.12 (1)	6.25							
E-D	0/0	-18.5	-18.5	0.02 (4)	10.00							

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 4 X 10 = 40 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, 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.

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

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

CSI: TO=0.13/1.00 (A-B:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (B-D:1), SI=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

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

NAIL VALUES

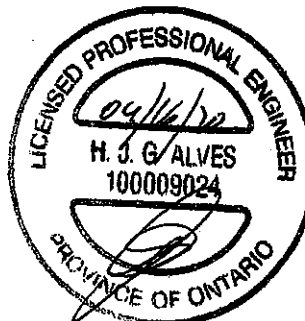
PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PL)	PL (PL)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1567 788	1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

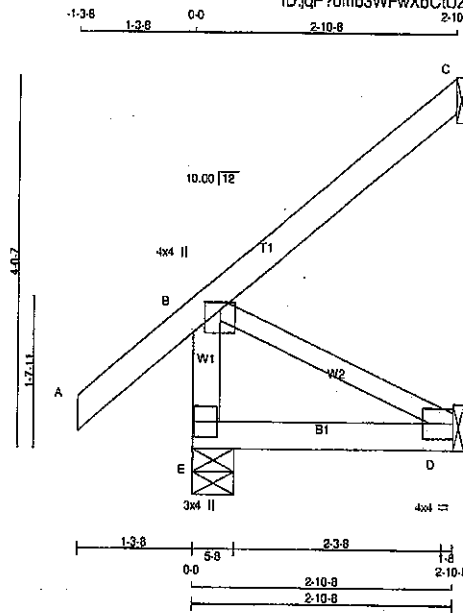
JSI GRIP= 0.20 (B) (INPUT = 0.90)

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



Structural component only
DWG# T-2006244

JOB NAME 408147	TRUSS NAME J22	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Wed Apr 15 15:52:26 2020 Page 1

Scale = 1:23.0

TOTAL WEIGHT = 13 lb

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

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE				
8 TMVW+p	MT20	4.0	4.0	1.00 2.00
D BMV1-t	MT20	4.0	4.0	2.00 Edge
E BMV1+p	MT20	3.0	4.0	

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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	BRG	BRG
E	284 0	284 0	5-8	5-8
C	132 0	132 0	1-8	1-8
D	25 0	25 0	1-8	1-8

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

UNFACTORED REACTIONS	1ST CASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW LIVE PERM LIVE WIND DEAD SOIL
E	199	144 0 0 0 0 0 54 0 0 0
C	91	74 0 0 0 0 0 17 0 0 0
D	20	0 0 0 0 0 0 20 0 0 0

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

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

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

LOADING
TOTAL LOAD CASES: (5)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	CS1 (LC) UNBRAC LENGTH FR-TO	MEMB. FORCE (LBS) CS1 (LC)
FR-TO				
E-B	259 0	0.0 0.0 0.03 (1)	7.81	B-D 0 0 0.00 (1)
A-B	0 41	-91.8 -91.8 0.13 (5)	10.00	
B-C	0 0	-91.8 -91.8 0.13 (1)	10.00	
E-D	0 0	-18.5 -18.5 0.04 (4)	10.00	

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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 2019, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 085-09, CSA 086-14
- TPO 2011, TPO 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. (TL) = L/360 (0.19")
CALCULATED VERT. DEFL. (TL) = L/999 (0.00")

CSI: TC=0.13/1.00 (A-B-5), BC=0.04/1.00 (D-E-4),
WB=0.00/1.00 (B-D-1), SS=0.08/1.00 (A-B-5)

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

COMPANION LIVE LOAD FACTOR = 1.00

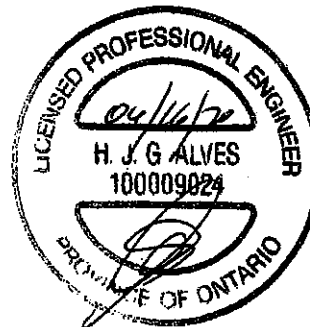
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1666

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.20 (B) (INPUT = 0.80)
JSI METAL = 0.05 (B) (INPUT = 1.00)

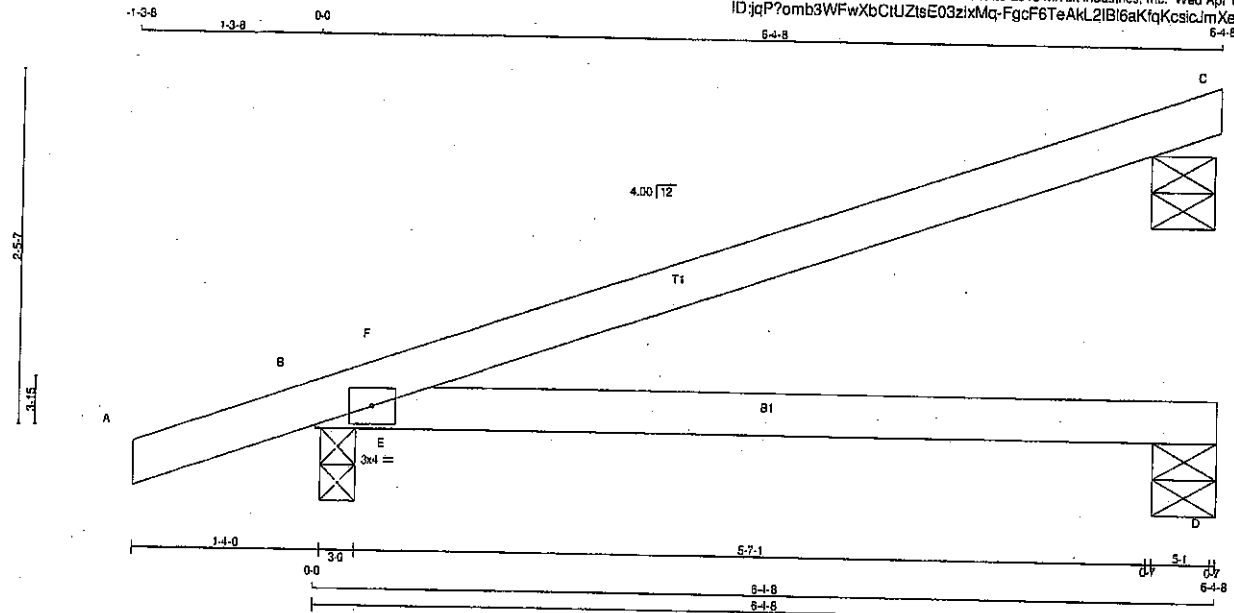


Structural component only
DWG# T-2006245

JOB NAME 408147	TRUSS NAME J23	QUANTITY 6	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
--------------------	-------------------	---------------	----------	-------------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Wed Apr 15 15:52:27 2020 Page 1
ID:jqP?omb3WFwXbCIUZIsE03zixMq-FgcF6TeAkL2IB6aKtqKscicmXeA8QNPR?uLzQRU2



Scale = 1:14.6

LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - C 2x4 DRY No.2

B - D 2x4 DRY No.2

DRY: SEASONED LUMBER.

LUMBER

No.2

No.2

DESCR.

SPF

SPF

PLATES (table is in inches)

JT TYPE PLATES

B TMB1-I MT20

W LEN Y X

3.0 4.0

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

BEARINGS

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
C	256	0	256	0	0	5-8	5-8
B	474	0	474	0	0	3-0	3-0
D	95	0	95	0	0	5-8 (5.7)	5-8

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

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

UNFACTORED REACTIONS

	1ST LCASE	MAX. MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
C	177	138 / 0	0 / 0	0 / 0	0 / 0	39 / 0	0 / 0
B	333	232 / 0	0 / 0	0 / 0	0 / 0	101 / 0	0 / 0
D	71	25 / 0	0 / 0	0 / 0	0 / 0	46 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

	CHORDS				WEBS			
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	MEMB. MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)
FR-TO								
A-B	0 / 18	-91.8	-91.8	0.11 (1)	10.00	E-F	-381 / 15	0.00 (1)
B-F	-22 / 28	-91.8	-91.8	0.07 (1)	6.25			
F-C	-3 / 2	-91.8	-91.8	0.48 (1)	10.00			
B-E	0 / 0	-18.5	-18.5	0.33 (1)	10.00			
E-D	0 / 0	-18.5	-18.5	0.33 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

(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 (0.21")
CALCULATED VERT. DEFL.(LL) = L/795 (0.10")
ALLOWABLE DEFL.(TL) = L/360 (0.21")
CALCULATED VERT. DEFL.(TL) = L/387 (0.20")

CSI: TC=0.48/1.00 (C-F:1), BC=0.33/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SS=0.31/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

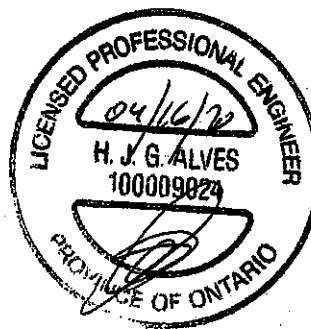
PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	610 354	1667 788	1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

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



Structural component only.
DWG# T-2006246

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

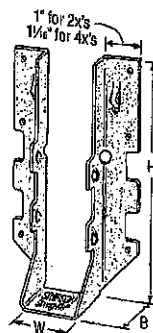
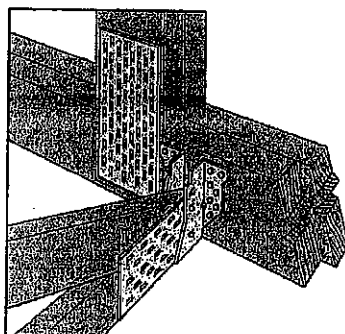


Double-Shear Nailing Side View; Do not bend tab

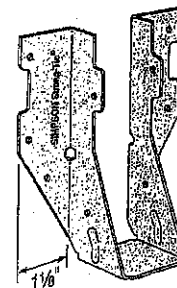


Dome Double-Shear Nailing Side View (available on some models) U.S. Patent 5,603,580

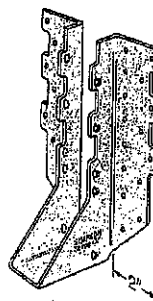
Typical HUS26 Installation with Reduced Heel Height (Truss Designer to provide fastener quantity for connecting multiple members together)



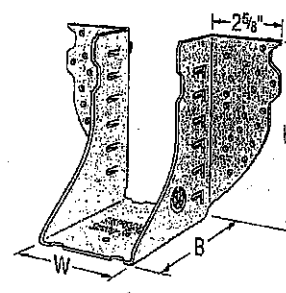
LUS28



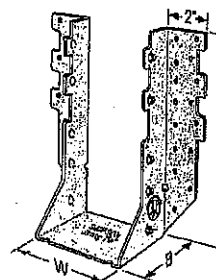
LU26L



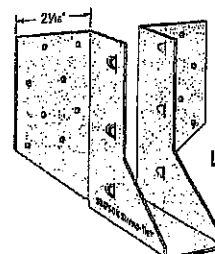
HUS210
(HUS26, HUS28, and HHUS similar)



HGUS28-2



HHUS210-2



LJS26DS

Plated Truss Connectors

LUL/LUS/LJS/HUS/HHUS/HGUS**HHUS/HGUS**

See Hanger Options information on pp. 125-127.

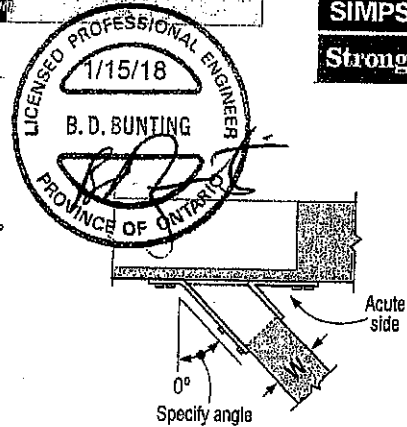
HHUS — Sloped and/or Skewed Seat

- HHUS hangers can be skewed to a maximum of 45° and/or sloped to a maximum of 45°
- For skew only, maximum factored down resistance is 0.85 of the table value
- For sloped only or sloped and skewed hangers, the maximum factored down resistance is 0.72 of the table value
- Uplift resistances for sloped/skewed conditions are 0.62 of the table value
- The joist must be bevel-cut to allow for double-shear nailing

HGUS — Skewed Seat

- HGUS hangers can be skewed only to a maximum of 45°. Factored resistances are:

HGUS Seat Width	Joist	Down Resistance	Uplift
W < 2"	Bevel or square cut	0.82 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	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	
Single 2x Sizes												
■	LUS24	18	1 1/8	3 1/2	1 3/4	2 1/4	(4) 10d	(2) 10d	710	1625	645	1155
									3.16	7.23	2.87	5.14
■	LU24L	22	1 1/8	3	1 1/2	2 1/8	(4) 10d	(2) 10d x 1 1/2"	360	1020	320	725
									1.60	4.54	1.42	3.22
■	LU26L	22	1 1/8	5	1 1/2	4 1/2	(6) 10d	(4) 10d x 1 1/2"	720	1605	645	1140
									3.20	7.14	2.87	5.07
SS	LUS26	18	1 1/8	4 1/4	1 1/4	3 1/4	(4) 10d	(4) 10d	1420	2170	1290	1630
									6.32	9.85	5.74	7.25
■	HUS28	16	1 1/8	5 1/2	3	3 1/8	(14) 16d	(6) 16d	2705	4940	2065	3875
									11.80	21.97	9.20	17.24
■	LJS26DS	18	1 1/8	5	3 1/2	4 1/2	(16) 16d	(6) 16d	2055	4265	1460	4115
									9.14	18.97	6.49	18.31
■	HGUS26	12	1 1/8	5 1/2	5	4 1/2	(20) 16d	(6) 16d	2685	6625	2685	5700
									11.96	29.51	11.96	25.35
■	LU28L	20	1 1/8	6 1/2	1 1/2	5 1/2	(8) 10d	(6) 10d x 1 1/2"	1140	2185	1020	1550
									5.07	9.72	4.54	6.89
SS	LUS28	18	1 1/8	6 1/2	1 1/4	3 1/4	(6) 10d	(4) 10d	1420	2520	1290	1790
									6.32	11.21	5.74	7.96
■	HUS28	16	1 1/8	7 1/2	3	6 1/8	(22) 16d	(8) 16d	3605	5365	2675	4345
									16.04	23.88	11.90	19.33
■	HGUS28	12	1 1/8	7 1/2	5	6 1/2	(36) 16d	(12) 16d	3310	7675	3310	6900
									14.74	34.19	14.74	30.73
■	LU210L	20	1 1/8	8	1 1/2	7 1/2	(10) 10d	(6) 10d x 1 1/2"	1140	2495	1020	1770
									5.07	11.10	4.54	7.87
SS	LUS210	18	1 1/8	7 1/8	1 1/4	3 1/4	(8) 10d	(4) 10d	1420	2785	1290	2210
									6.32	12.39	5.74	9.83

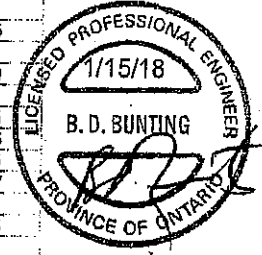
1. Factored uplift resistances have been increased 15% for wind or earthquake loading; no further increase is allowed.
2. Designer must ensure that hanger is compatible with truss when reduced heel height is used.
3. d_g is the distance from the bearing seat to the top joist nail.
4. Resistances shown require a minimum 2-ply girder truss. For fastening to single-ply truss request technical bulletin T-C-N10TRSSCN and/or see installation notes.
5. Nails: 16d = 0.162" dia. x 3 3/4" long. See pp. 27-28 for other nail sizes and information.

Face-Mount Hangers

These products are available with additional corrosion protection. For more information, see p. 24.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32-34 for more information.

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance							
		W	H	B	d _o ²	Header	Joist	D-Fir-L		S-P-F					
								Uplift	Normal	Uplift	Normal				
								(K _D = 1.15) lb.	(K _D = 1.00) lb.	(K _D = 1.15) lb.	(K _D = 1.00) lb.				
												kN	kN	kN	kN
Double 2x Sizes															
LUS24-2	18	3 1/8	3 1/8	2	1 1/2	(4) 16d	(2) 16d	835	2020	590	1435				
LUS26-2	18	3 1/8	4 7/8	2	4	(4) 16d	(4) 16d	3.71	8.89	2.62	6.38				
HHUS26-2	14	3 1/8	5 7/8	3	3 1/8	(14) 16d	(6) 16d	1720	2595	1545	1920				
HGUS26-2	12	3 1/8	5 7/8	4	4 1/8	(20) 16d	(8) 16d	7.65	11.54	6.87	8.54				
LUS28-2	18	3 1/8	7	2	4	(6) 16d	(4) 16d	2850	7335	2065	5205				
HHUS28-2	14	3 1/8	7 7/8	3	6 1/8	(22) 16d	(8) 16d	12.68	32.63	9.20	23.15				
HGUS28-2	12	3 1/8	7 7/8	4	6 1/8	(36) 16d	(12) 16d	4385	8950	3110	6355				
LUS210-2	18	3 1/8	9	2	6	(8) 16d	(6) 16d	19.51	39.81	13.83	28.27				
HHUS210-2	14	3 1/8	9 7/8	3	8	(30) 16d	(10) 16d	1720	3325	1545	2575				
HGUS210-2	12	3 1/8	9 7/8	4	8 1/8	(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
LUS210-2	18	3 1/8	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195				
HHUS210-2	14	3 1/8	9 7/8	3	8	(30) 16d	(10) 16d	11.48	20.02	10.32	14.21				
HGUS210-2	12	3 1/8	9 7/8	4	8 1/8	(46) 16d	(16) 16d	4670	9660	4235	7000				
												20.77	42.97	18.84	31.34
												6840	14015	4855	10270
												30.43	62.34	21.60	45.69
Triple 2x Sizes															
HGUS26-3	12	4 1/8	5 1/2	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355				
HGUS28-3	12	4 1/8	7 1/4	4	6 1/8	(36) 16d	(12) 16d	19.51	39.81	13.83	28.27				
HHUS210-3	14	4 1/8	9	3	7 1/8	(30) 16d	(10) 16d	6070	12980	4310	9215				
HGUS210-3	12	4 1/8	9 1/4	4	8 1/8	(46) 16d	(16) 16d	27.00	57.74	19.17	40.99				
												4670	9670	4235	6865
												20.77	43.02	18.84	30.54
												6840	14645	4855	10400
												30.43	65.14	21.60	46.26
Quadruple 2x Sizes															
HGUS26-4	12	6 1/8	5 7/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355				
HGUS28-4	12	6 1/8	7 7/8	4	6 1/8	(36) 16d	(12) 16d	19.51	39.81	13.83	28.27				
HHUS210-4	14	8 1/8	8 3/8	3	7 1/8	(30) 16d	(10) 16d	6070	12980	4310	9215				
HGUS210-4	12	6 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	27.00	57.74	19.17	40.99				
HGUS212-4	12	6 1/8	10 3/8	4	10 1/8	(56) 16d	(20) 16d	4670	10156	4235	7210				
HGUS214-4	12	6 1/8	12 3/8	4	11 1/8	(66) 16d	(22) 16d	20.77	45.17	18.84	32.07				
												6840	14645	4855	10400
												30.43	65.14	21.60	46.26
												7640	14995	5425	10645
												33.98	66.70	24.13	47.35
												10130	16400	7195	11645
												45.06	72.95	32.00	51.80
4x Sizes															
LUS46	18	3 3/8	4 3/4	2	3 3/8	(4) 16d	(4) 16d	1720	2595	1545	1920				
HHUS46	14	3 3/8	5 1/4	3	3 1/8	(14) 16d	(6) 16d	7.65	11.54	6.87	8.54				
HGUS46	12	3 3/8	5 1/4	4	4 1/8	(20) 16d	(8) 16d	2540	7335	2065	5205				
LUS48	18	3 3/8	6 3/4	2	3 3/8	(6) 16d	(4) 16d	11.30	32.63	9.20	23.15				
HHUS48	14	3 3/8	7 1/4	3	6 1/8	(22) 16d	(8) 16d	4385	8950	3110	6355				
HGUS48	12	3 3/8	7 1/4	4	6 1/8	(36) 16d	(12) 16d	19.51	39.81	13.83	28.27				
LUS410	18	3 3/8	8 3/4	2	5 3/8	(8) 16d	(6) 16d	1720	3325	1545	2575				
HGUS410	12	3 3/8	9	4	8 1/8	(46) 16d	(16) 16d	7.65	14.79	6.87	11.45				
HGUS412	12	3 3/8	10 3/8	4	10 1/8	(56) 16d	(20) 16d	3765	8940	2675	6345				
HGUS414	12	3 3/8	12 3/8	4	11 1/8	(66) 16d	(22) 16d	16.75	39.77	11.90	28.22				
												6070	12980	4310	9215
												27.00	57.74	19.17	40.99
LUS410	18	3 3/8	8 3/4	2	5 3/8	(8) 16d	(6) 16d	2580	4500	2320	3195				
HGUS410	12	3 3/8	9	4	8 1/8	(46) 16d	(16) 16d	11.48	20.02	10.32	14.21				
HGUS412	12	3 3/8	10 3/8	4	10 1/8	(56) 16d	(20) 16d	4670	14995	5425	10645				
HGUS414	12	3 3/8	12 3/8	4	11 1/8	(66) 16d	(22) 16d	33.98	66.70	24.13	47.35				
												10130	16400	7195	11645
												45.06	72.95	32.00	51.80



Plated Truss Connectors

See footnotes on p. 258.

TC – Truss Connectors

SIMPSON
Strong-Tie

The TC truss connector is an ideal connector for scissor trusses and can allow horizontal movement up to 1¼". The TC also attaches plated trusses to top plates or sill plates to resist uplift forces. Typically used on one or both ends of truss as determined by the building designer.

Material: 16 gauge

Finish: G90 galvanized

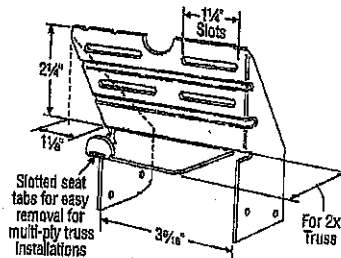
Design: Factored resistances are in accordance with CSA 086-14

Installation:

- Use all specified fasteners.
- Nails: 10d = 0.148" dia. x 3" long common wire, 10d x 1½" = 0.148" dia. x 1½" long.
- Drive 10d nails into the truss at the inside end of the slotted holes (inside end is towards the centre of the truss) and clinch on the back side. Do not seat these nails into the truss—allow room under the nail head for movement of the truss with respect to the wall.

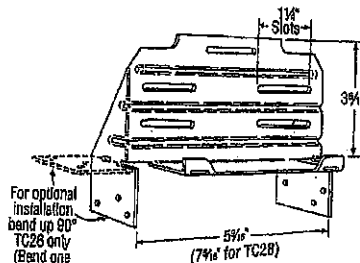
Optional TC Installation:

- Bend one flange up 90°. Drive specified nails into the top and face of the top plates or install Titen® screws into the top and face of masonry wall. See optional load tables and installation details.



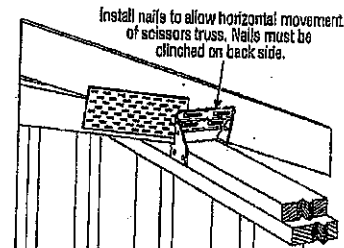
TC24

U.S. Patent 4,932,173

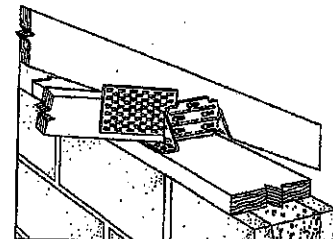


TC26

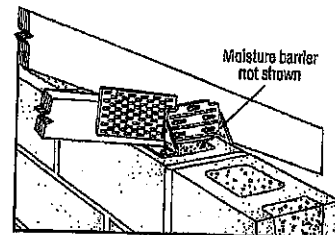
(TC28 Similar)



Typical TC24 Installation



Optional TC26 Installation for Grouted Concrete Block using a Wood Nailer (8", 10", 12" Wall Installation Similar)



Optional TC26 Installation for Grouted Concrete Block using Titen Screws

Model No.	Fasteners		Factored Resistance	
	Truss	Wall Plates	D.Fir-L Uplift (K _u =1.15)	S-P-F Uplift (K _u =1.15)
			lb.	lb.
TC24	(4) 10d	(4) 10d	805	430
TC26	(5) 10d	(5) 10d	1015	720
TC28	(5) 10d	(5) 10d	1015	720

Optional TC Installation Table

Model No.	Fasteners		Factored Resistance	
	Truss	Wall Plates	D.Fir-L Uplift (K _u =1.15)	S-P-F Uplift (K _u =1.15)
			lb.	lb.
TC26	(5) 10d	(5) 10d x 1½"	810	660
	(5) 10d	(5) 10d	930	660

1. Factored resistances have been increased 15% for earthquake or wind loading; no further increase allowed; reduce where other loads govern.
2. Grout strength is 15 MPa minimum.
3. Optional TC26 installation with 10d nails requires minimum 3" top plate thickness.
4. TC26 fastened to grouted concrete block with (5) – 9/16" x 2 3/4" Titen screws has a factored uplift resistance of 275 lb.



UNITED STATES DESIGN

© 2017 Simpson Strong-Tie Company, Inc. All rights reserved. This document is the property of Simpson Strong-Tie Company, Inc. and is not to be reproduced without written permission. The information contained herein is for general informational purposes only and does not constitute an offer of any product or service. The information contained herein is subject to change without notice. The information contained herein is not to be used in any way that may result in personal injury or property damage. The information contained herein is not to be used in any way that may result in personal injury or property damage. The information contained herein is not to be used in any way that may result in personal injury or property damage.

(800) 999-5099
strongtie.com

H/TSP

Seismic and Hurricane Ties (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.	Fasteners			Factored Resistance ($K_D = 1.15$)					
					D.Fir-L			S-P-F		
		To Rafters/Truss	To Plates	To Studs	Uplift	Lateral		Uplift	Lateral	
						F_1	F_2		F_1	F_2
					lb.	lb.	lb.	lb.	lb.	lb.
					kN	kN	kN	kN	kN	kN
H1	18	(3) 8d x 1½"	(4) 8d	—	740	685	300	680	485	215
					3.29	3.05	1.33	3.02	2.16	0.96
SS H2A	18	(5) 8d x 1½"	(2) 8d x 1½"	(5) 8d x 1½"	830	220	75	590	155	55
					3.69	0.98	0.33	2.62	0.69	0.24
SS H2.5A	18	(5) 8d	(5) 8d	—	605	160	160	755	160	160
					3.58	0.71	0.71	3.38	0.71	0.71
H2.5T	18	(5) 8d	(5) 8d	—	835	175	210	740	160	210
					3.71	0.78	0.93	3.29	0.71	0.93
SS H3	18	(4) 8d	(4) 8d	—	740	180	265	615	125	190
					3.29	0.80	1.18	2.74	0.56	0.85
H6	16	—	(3) 8d	(8) 8d	1585	1085	—	1125	770	—
					7.05	4.83	—	5.00	3.43	—
H7Z	16	(4) 8d	(2) 8d	(8) 8d	1390	670	—	990	475	—
					6.18	2.98	—	4.40	2.11	—
SS H8 ³	18	(5) 10d x 1½"	(5) 10d x 1½"	—	1120	—	—	1025	—	—
					4.98	—	—	4.56	—	—
SS H10A ⁹	18	(9) 10d x 1½"	(9) 10d x 1½"	—	1735	795	410	1505	565	290
					7.72	3.54	1.82	6.69	2.51	1.29
H10AR	18	(9) 10d x 1½"	(9) 10d x 1½"	—	1485	690	430	1220	570	305
					6.61	3.07	1.91	5.43	2.54	1.36
H10A-2	18	(9) 10d x 1½"	(9) 10d x 1½"	—	1835	1275	430	1645	880	305
					8.16	5.67	1.91	7.32	3.91	1.36
H10S ^{7,9}	18	(8) 8d x 1½"	(8) 8d x 1½"	(8) 8d	1485	795	315	1040	565	225
					6.52	3.54	1.40	4.63	2.51	1.00
H11Z	18	(6) 16d x 2½"	(6) 16d x 2½"	—	1085	920	545	780	655	390
					4.87	4.09	2.42	3.47	2.91	1.73
H14	18	1 (12) 8d x 1½"	(13) 8d	—	2390	855	320	1805	610	230
		2 (12) 8d x 1½"	(15) 8d	—	2390	855	320	1805	610	230
					10.63	3.80	1.42	8.03	2.71	1.02
TSP	16	(9) 10d x 1½"	(6) 10d x 1½"	—	1295	440	—	920	310	—
					5.76	1.96	—	4.09	1.38	—
		(9) 10d x 1½"	(6) 10d	—	1560	440	—	1105	310	—
					6.94	1.98	—	4.92	1.38	—

- Factored resistances have been increased 15% for short term loading; no further increase is allowed.
- Factored resistances are for one anchor. A minimum rafter thickness of 2½" must be used when framing anchors are installed on the same side of the plate (exception: H2.5A).
- H8 factored uplift resistances for stud-to-bottom plate installations are 595 lb. (2.65 kN) for D.Fir-L and 390 lb. (1.74 kN) for S-P-F.
- When cross-grain bending or cross-grain tension cannot be avoided, mechanical reinforcement to resist such forces should be considered.
- Hurricane ties are shown installed on the outside of the wall for clarity. Installation on the inside of the wall is acceptable. For a continuous load path, connections at the top and bottom of the wall must be on the same side of the wall (see technical bulletin T-HTIECONPATH).
- Factored resistances in the F_1 direction are not intended to replace diaphragm boundary members or prevent cross grain bending of the truss or rafter members. Additional shear transfer elements shall be considered where there may be effects of cross grain bending or tension.

- H10S can have the stud offset a maximum of 1" from the rafter (centre to centre) for a reduced uplift of 1435 lb. (6.38 kN) D.Fir-L and 1015 lb. (4.51 kN) S-P-F.
- H10S nails to plates are optional for uplift but required for lateral loads.
- H10A may be field-bent up to a slope of 8/12. Multiply the tabulated uplift value x 0.75. Full tabulated lateral resistances apply.
- The factored resistances of stainless-steel connectors match carbon-steel connectors when installed with Simpson Strong-Tie® stainless-steel, SCN® ring-shank nails. For more information, refer to engineering letter L-F-SSNAILS at strongtie.com.
- D.Fir-L/S-P-F factored uplift resistances for the H2.5A fastened to a 2x4 truss bottom chord and double top plates using (5) 8d x 1½" nails into the top plates and (3) 8d x 1½" nails into the lowest three flange holes into the truss bottom chord is 495 lb. (2.20 kN).
- Nails: 16d x 2½" = 0.162" dia. x 2½" long, 10d = 0.148" dia. x 3" long, 10d x 1½" = 0.148" dia. x 1½" long, 8d = 0.131" dia. x 2½" long, 8d x 1½" = 0.131" dia. x 1½" long. See pp. 27–28 for other nail sizes and information.

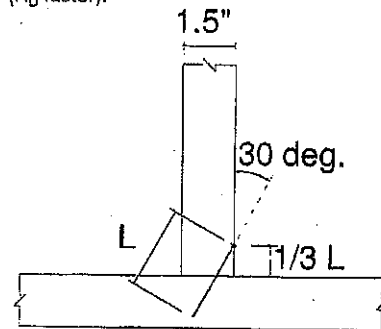
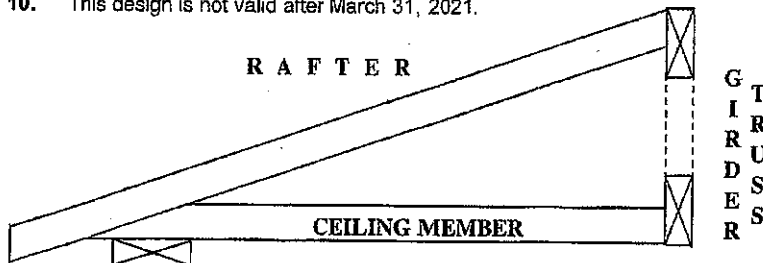
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B97791H1

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

NOTES:

1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
2. Toe nail capacities shown in the table are for one toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.4.1.
3. For 9-3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in tables below.
5. Nail values in table are based on the following relative lumber densities: $G = 0.42$ (SPF), $G = 0.49$ (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See next page for nailing on bearing plate).
7. For loads due to wind the nail lateral capacity in this table may be multiplied by 1.15 (K_D factor).
8. Lumber must be dry (< 19% moisture content) at the time of nail installation.
9. Nail values in this table comply with CSA O86-14, section 12.9.4
10. This design is not valid after March 31, 2021.



TOE-NAIL INSTALLATION

Nail type	Common wire	Common spiral	Common wire	Common spiral
Nail dia. (in)	0.160	0.152	0.144	0.122
	(3.5" nail)		(3" and 3.25" nail)	
LUMBER SIZE	MAXIMUM NUMBER OF TOE-NAILS			
2X4 SPF	2	2	3	3
2X4 D. Fir	2	2	2	2
2X6 SPF	4	4	4	5
2X6 D. Fir	3	3	3	4

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

December 2, 2019

PEO
Certificate No. 10889485



BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

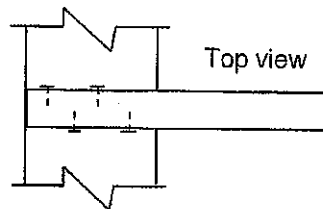
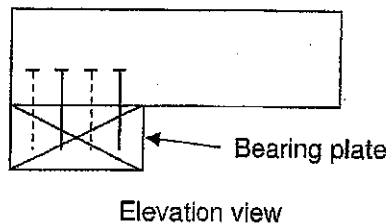
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52
COMMON SPIRAL	3.00	0.122	26	36
	3.25	0.122	28	40
	3.50	0.152	36	50

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

NOTES:

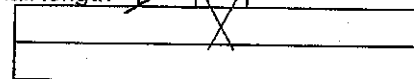
1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to **wind** or **earthquake** load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are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

Toe-nailing on 2x6 Bearing Plate



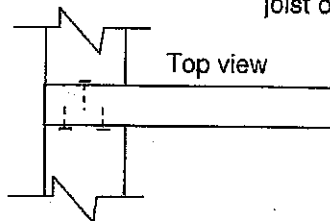
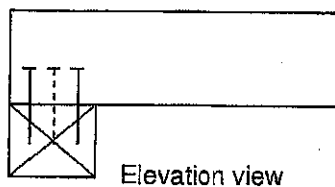
Approx. 1/3
of nail length

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

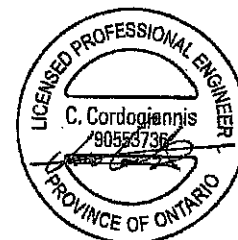


Toe-nailing viewed from end of
joist or truss

Toe-nailing on 2x4 Bearing Plate



PEO
Certificate No. 10889485

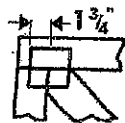


MiTek® MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7

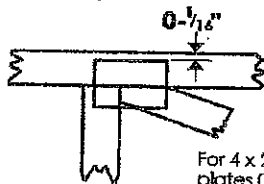
December 2, 2019

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



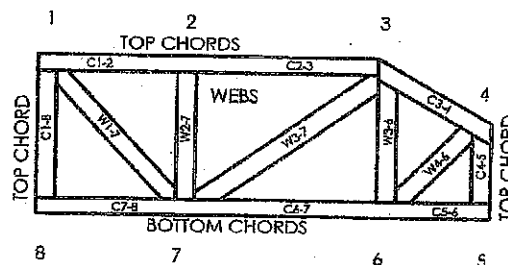
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

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

6-4-8 dimensions shown in ft-in-sixteenths or mm (Drawings not to scale)



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

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

PRODUCT CODE APPROVALS

CCMC Reports:

11996-L, 10319-L, 13270-L, 12691-R

© 2007 MiTek® All Rights Reserved

MiTek
POWER TO PERFORM.™

MiTek Engineering Reference Sheet: MII-7473C rev. 10-'08

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

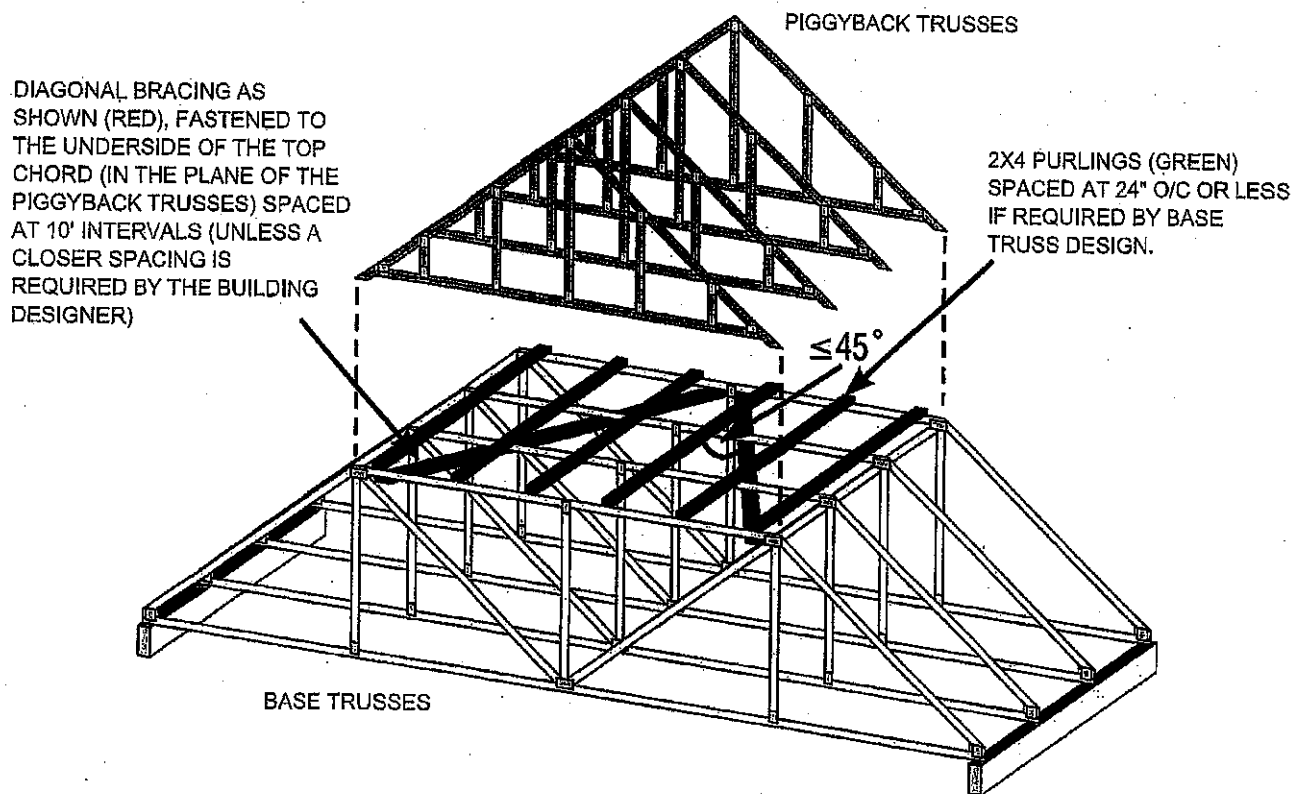
1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never 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.

Overview:

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

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

Detail:



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

SKETCH FROM BCSI-CANADA 2013

Disclaimer:

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



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 MH7473C REV.10-08 attached for information on symbols, numbering system and General Safety notes.

T-1900215

Feb 09, 2018