

9/12 ROOF PITCH UNLESS  
OTHERWISE NOTED

ASPHALT SHINGLES  
FINISHED OVERHANG: 12"  
2x6 EXTERIOR WALLS  
2x6 FASCIA BOARD  
HEEL: R.T.M.C.

All conventional framing to conform with  
Part 9 of O.B.C. 2012 (2019 amendment).  
Roof rafters that cross over or meet trusses  
to be min. 2x4 SPF #2 @ 24" o/c with a  
vertical post to the truss at each cross  
point. Vertical posts longer than 6' to have  
lateral bracing so that the distance between  
the post end points and lateral bracing does  
not exceed 6'.

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

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

HARDWARE:  
LJS26DS - (V)  
HGUS26-2 - (XX)  
LUS24- (O)  
LUS26-2- (VV)

 DENOTES:  
CONVENTIONAL  
FRAMING



Job Track: **53256**  
Plan Log: **207891**  
Layout ID: **436988**

Builder / Location:

**GREEN PARK HOMES / RICHMOND HILL**


Project: **TRINIGROUP DEVELOPMENTS**















Date: 1/2/2024 Sales: Rick DiCiano Designer: YPG

Model / Elevation:


**VILLA 9 / 1**















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PURPOSE. Mitek ver 8.6.3.353

 <p><b>TAMARACK</b> ROOF TRUSSES INC. <small>ALPHA LUMBER GROUP</small></p>	<b>DELIVERY SHIPLIST</b>				Lumber Yard: TAMARACK LUMBER Builder: GREEN PARK HOMES Project: TRINIGROUP DEVELOPMENTS Location: RICHMOND HILL Model: VILLA 9 Lot #: Elevation: 1		Job Track: 53256 PlanLog: 207891 Layout ID: 436988 Ref # Page: 1 of 4 Date: 03/04/2024 Designer: Sales Rep: Rick DiCiano	
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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	34-02-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	301.35 190.00		
	1	T2 Hip	6 /12	34-02-00	5-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	136.06 85.67		
	1	T3 Hip	6 /12	34-02-00	6-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	135.64 85.00		
	1	T4 Hip	6 /12	34-02-00	7-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	141.75 88.50		
	1	T5 Hip	6 /12	34-02-00	8-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	137.41 86.33		
	1	T6 Hip	6 /12	34-02-00	9-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	154.3 97.83		
	4	T7 Common	6 /12	34-02-00	9-08-08	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	590.47 364.00		
	1 2-ply	T8 Roof Special Girder	9 /12	34-02-00	9-03-10	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	390.29 244.33		
	2	T9 Hip	9 /12	34-02-00	7-05-02	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	308.79 195.33		
	1	T10 Hip	9 /12	34-02-00	8-09-13	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	160.95 99.83		
	1 2-ply	T11 Hip Girder	9 /12	31-02-00	5-11-02	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	310.54 195.33		
	1	T12 Hip	9 /12	31-02-00	7-05-02	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	142.94 89.83		
	1	T13 Hip	9 /12	31-02-00	8-06-10	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	143.84 90.33		
	1	T14 Hip Girder	6 /12	16-08-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	77.19 49.33		

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 BUILDING DIVISION  
 05/01/2024  
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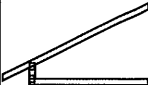
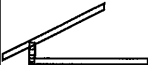
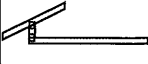



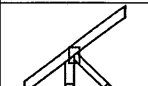
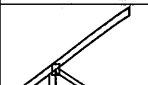
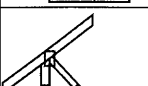
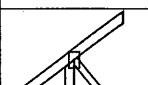

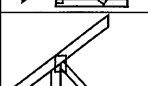

 <p><b>TAMARACK</b> ROOF TRUSSES INC. <small>ALPHA LUMBER GROUP</small></p>	DELIVERY SHIPLIST				Lumber Yard: TAMARACK LUMBER Builder: GREEN PARK HOMES Project: TRINIGROUP DEVELOPMENTS Location: RICHMOND HILL Model: VILLA 9 Lot #: Elevation: 1		Job Track: 53256 PlanLog: 207891 Layout ID: 436988 Ref # Page: 2 of 4 Date: 03/04/2024 Designer: Sales Rep: Rick DiCiano	
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Roof Trusses											
PROFILE	QTY <sup>1</sup> PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	T15 Hip	6 /12	16-08-00	5-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	68.06 43.00		
	2	T16 Common	6 /12	16-08-00	5-04-00	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	133.74 84.67		
	4	T17 Common	9 /12	13-06-00	6-07-00	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	245.21 158.67		
	1	T17G GABLE	9 /12	13-06-00	6-07-00	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	62.72 42.67		
	1	T18 Hip Girder	9 /12	12-04-00	4-05-02	2 x 4 2 x 6	1-03-08	1-06-04 3-00-04	66.73 43.83		
	1	T19 Hip	9 /12	12-04-00	5-11-02	2 x 4	1-03-08	1-06-04 3-00-04	59.06 39.17		
	1	T20 Common	9 /12	12-04-00	6-10-12	2 x 4		1-06-04 3-00-04	53.83 34.83		
	1 2-ply	T21 Half Hip Girder	9 /12	5-10-08	3-07-00	2 x 4 2 x 6		1-06-04 3-07-00	65.23 42.67		
	1 2-ply	T22 Jack-Closed Girder	6 /12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	58.39 37.67		
	1 2-ply	T23 Jack-Closed Girder	9 /12	5-10-08	5-11-02	2 x 4 2 x 6		1-06-04 5-11-02	69.13 44.67		
	1 2-ply	T23Z Jack-Closed Girder	9 /12	5-10-08	5-11-02	2 x 4 2 x 6		1-06-04 5-11-02	69.13 44.67		
	1	T24 Hip Girder	9 /12	8-06-00	2-11-02	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	45.32 33.00		
	1	T25 Hip	9 /12	8-06-00	5-11-02	2 x 6 2 x 4	1-03-08 1-03-08	3-00-04 3-00-04	52.29 34.00		
	1 2-ply	T26 Half Hip Girder	9 /12	3-10-08	4-02-08	2 x 4 2 x 6		1-06-04 4-02-08	42.45 28.00		

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### 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
	10	J1 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	167.94 106.67		
	3	J2 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	42.4 26.00		
	3	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	34.75 22.00		
	3	J4 Jack-Open	6 /12	1-10-08	3-00-12	2 x 4	1-03-08 1-10-15	1-02-00 2-01-04	28.71 18.00		
	3	J5 Jack-Open	6 /12	1-09-07	2-00-12	2 x 4	1-03-08 1-01	1-02-00 2-00-12	21.06 14.00		
	2	J6 Jack-Open	9 /12	5-10-08	5-11-02	2 x 4	1-03-08	1-06-04 5-11-02	40.36 27.00		
	4	J7 Jack-Open	9 /12	1-10-08	2-11-02	2 x 4	1-03-08	1-06-04 2-11-02	37.99 28.00		
	1	J8 Jack-Open	9 /12	3-07-00	4-02-08	2 x 4	1-03-08	1-06-04 4-02-08	14.3 10.17		
	1	J9 Jack-Open	9 /12	1-09-07	2-10-05	2 x 4	1-03-08 1-09-09	1-06-04 2-10-05	11.26 8.33		
	2	J10 Jack-Open	9 /12	1-09-07	2-10-05	2 x 4	1-03-08 1-01	1-06-04 2-10-05	18.46 14.00		
	2	J11 Jack-Open	9 /12	2-09-00	3-07-00	2 x 4	1-03-08	1-06-04 3-07-00	24.05 17.67		
	1	J12 Jack-Open	9 /12	1-09-07	2-10-05	2 x 4	1-03-08 11-09	1-06-04 2-10-05	10.31 7.67		
	3	J13 Jack-Open	6 /12	5-02-08	3-06-15	2 x 4	1-03-08	4-03 2-11-07	43.18 28.00		

TOTAL # TRUSS= 82      TOTAL BFT OF ALL TRUSSES= 3000.67      BFT.      TOTAL WEIGHT OF ALL TRSSES 4717.58 LBS

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

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 <b>TAMARACK</b> ROOF TRUSSES INC. <small>ALPHA LUMBER GROUP</small>	DELIVERY SHIPLIST			
	Lumber Yard:	TAMARACK LUMBER	Job Track:	53256
	Builder:	GREEN PARK HOMES	PlanLog:	207891
	Project:	TRINIGROUP DEVELOPMENTS	Layout ID:	436988
	Location:	RICHMOND HILL	Ref #	
	Model:	VILLA 9	Page:	4 of 4
	Lot #:		Date:	03/04/2024
	Elevation:	1	Designer:	
		Sales Rep:	Rick DiCiano	

**HARDWARE**

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

TOTAL NUMBER OF ITEMS= 17

CITY OF RICHMOND HILL  
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1. **Identify the main components of the system.**

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
436988	T1	1	2	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Mar 4 08:03:28 2024 Page 2  
ID:1PtzEZc03lbzkDC64XoV?RvgPui-FF7OL5usCpgYyst2oh?oiWyw7d5fA78rONZB7vzeNPT

**PLATES (table is in inches)**

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	4.0	10.0	1.00	5.00
C	TTWW-m	MT20	6.0	10.0	2.00	4.75
D	TMWW-t	MT20	4.0	6.0		
E	TMW-w	MT20	2.0	4.0		
F	TS-t	MT20	3.0	8.0		
G	TMWW-t	MT20	4.0	6.0		
H	TTWW-m	MT20	6.0	10.0	2.00	4.75
I	TMVW-p	MT20	4.0	10.0	1.00	5.00
K	BMV1+p	MT20	4.0	6.0		
L	BMWW-t	MT20	5.0	6.0	2.50	2.00
M	BMWW-t	MT20	5.0	6.0	2.50	2.50
N	BS-t	MT20	6.0	7.0		
O	BMWW-t	MT20	6.0	10.0	3.50	5.00
P	BS-t	MT20	6.0	7.0		
Q	BMWW-t	MT20	5.0	6.0	2.50	2.50
R	BMWW-t	MT20	5.0	6.0	2.50	2.00
S	BMV1+p	MT20	4.0	6.0		

**NOTES- (1)**

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

**SPECIFIED CONCENTRATED LOADS (LBS)**

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
X	18-8-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
Y	20-8-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
Z	24-8-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AA	26-8-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AB	30-2-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AC	32-2-12	-20	-20	---	FRONT	VERT	TOTAL	---	C1

**CONNECTION REQUIREMENTS**

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



Structural component only  
DWG# T-2406568

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

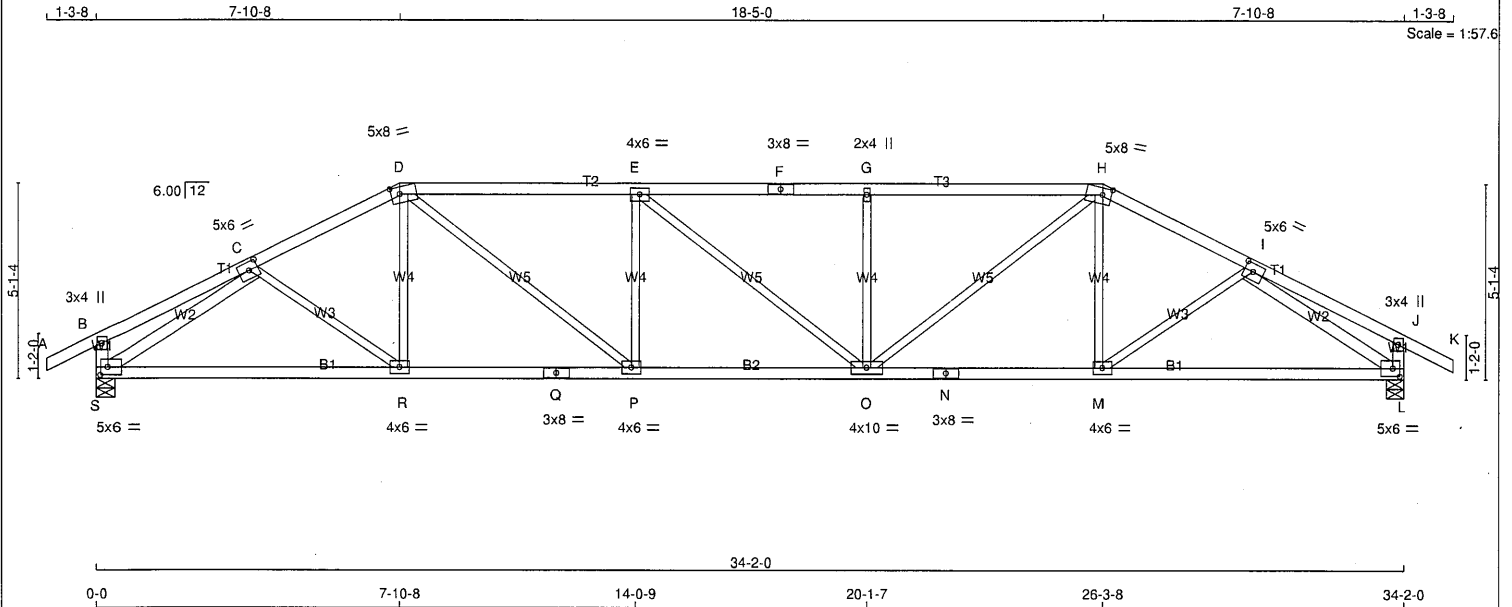
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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	T2	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Mar 4 08:03:28 2024 Page 1  
ID:1PtZc03lbzkdC64XoV?RygPui-FF7OL5usCpqYyst2oh?oiWyttd6HA5trONZB7vzeNPT



TOTAL WEIGHT = 136 lb

LUMBER				DESCR.	
N. L. G. A. RULES	SIZE	LUMBER			
CHORDS					
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	
S - B	2x4	DRY	No.2	SPF	
L - J	2x4	DRY	No.2	SPF	
S - Q	2x4	DRY	No.2	SPF	
Q - N	2x4	DRY	No.2	SPF	
N - L	2x4	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
EXCEPT					
S - C	2x4	DRY	No.2	SPF	
I - L	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0	
C	TMWW-t	MT20	5.0	6.0	2.50 2.75
D	TTWW-m	MT20	5.0	8.0	2.25 2.75
E	TMWW-t	MT20	4.0	6.0	
F	TS-t	MT20	3.0	8.0	
G	TMW+w	MT20	2.0	4.0	
H	TTWW-m	MT20	5.0	8.0	2.25 2.75
I	TMWW-t	MT20	5.0	6.0	2.50 2.75
J	TMV+p	MT20	3.0	4.0	
L	BMVW1-t	MT20	5.0	6.0	2.50 2.25
M, P, R					
M	BSW-t	MT20	4.0	6.0	
N	BS-t	MT20	3.0	8.0	
O	BMWWW-t	MT20	4.0	10.0	
Q	BS-t	MT20	3.0	8.0	
S	BMVW1-t	MT20	5.0	6.0	2.50 2.25

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

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

##### BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REORD BRG
JT	VERT	HORZ	DOWN	HORZ
S	2008	0	2008	0
L	2008	0	2008	0

##### UNFACTORED REACTIONS

1ST LCASE	MAX / MIN	COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
S	1418	944 / 0	0 / 0	0 / 0	0 / 0	474 / 0	0 / 0	
L	1418	944 / 0	0 / 0	0 / 0	0 / 0	474 / 0	0 / 0	

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.16 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

##### LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 MAX. UNBRACED LENGTH (LC)	
FR-TO				FR-TO			
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	C-R	0 / 87	0.03 (4)
B-C	0 / 16	-91.8	-91.8 0.20 (1)	10.00	R-D	0 / 122	0.04 (4)
C-D	-2697 / 0	-91.8	-91.8 0.31 (1)	3.96	D-P	0 / 1159	0.26 (1)
D-E	-3313 / 0	-91.8	-91.8 0.79 (1)	3.16	P-E	-610 / 0	0.23 (1)
E-F	-3311 / 0	-91.8	-91.8 0.78 (1)	3.16	E-O	-2 / 0	0.00 (1)
F-G	-3311 / 0	-91.8	-91.8 0.78 (1)	3.16	O-G	-609 / 0	0.23 (1)
G-H	-3311 / 0	-91.8	-91.8 0.79 (1)	3.17	O-H	0 / 1157	0.26 (1)
H-I	-2698 / 0	-91.8	-91.8 0.31 (1)	3.96	M-I	0 / 122	0.04 (4)
I-J	0 / 16	-91.8	-91.8 0.20 (1)	10.00	M-L	0 / 87	0.03 (4)
J-K	0 / 28	-91.8	-91.8 0.12 (1)	10.00	S-C	-2879 / 0	0.80 (1)
S-B	-270 / 0	0.0	0.0 0.03 (1)	7.81	I-L	-2879 / 0	0.80 (1)
L-J	-270 / 0	0.0	0.0 0.03 (1)	7.81			
S-R	0 / 2340	-18.5	-18.5 0.51 (1)	10.00			
R-Q	0 / 2398	-18.5	-18.5 0.52 (1)	10.00			
Q-P	0 / 2398	-18.5	-18.5 0.52 (1)	10.00			
P-O	0 / 3313	-18.5	-18.5 0.61 (1)	10.00			
O-N	0 / 2398	-18.5	-18.5 0.52 (1)	10.00			
N-M	0 / 2398	-18.5	-18.5 0.52 (1)	10.00			
M-L	0 / 2340	-18.5	-18.5 0.51 (1)	10.00			

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 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 (1.14")  
CALCULATED VERT. DEFL.(LL)= L/999 (0.19")  
ALLOWABLE DEFL.(TL)= L/360 (1.14")  
CALCULATED VERT. DEFL.(TL)= L/999 (0.37")

CSI: TC=0.79/1.00 (D-E:1), BC=0.61/1.00 (O-P:1),  
WB=0.80/1.00 (I-L:1), SSI=0.26/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.79 (I) (INPUT = 0.90)

JSI METAL= 0.73 (N) (INPUT = 0.95)



Structural component only  
DWG# T-2406569

CITY OF RICHMOND HILL  
BUILDING DIVISION

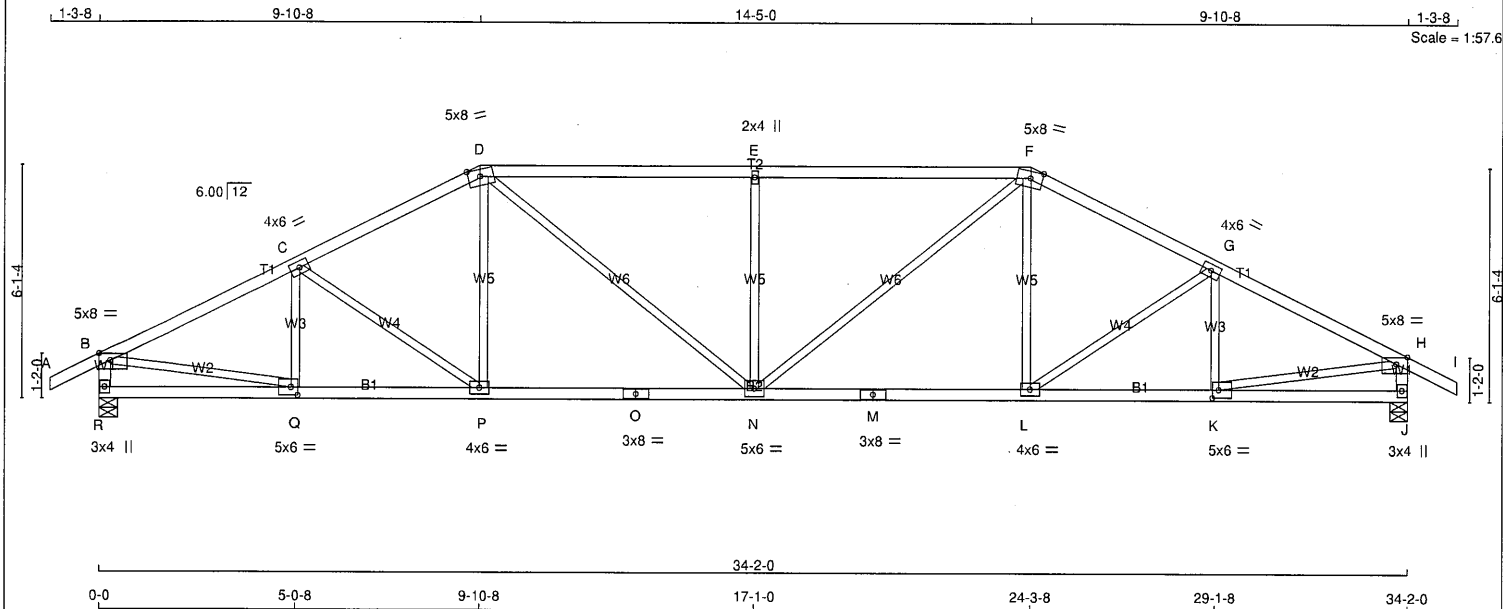
05/01/2024

RECEIVED  
Per: joshua.nabua



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
436988	T3	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.630 S Aug 30 2023 Mitek Industries, Inc. Mon Mar 4 08:03:29 2024 Page 1  
ID:1PtZEc03lbzkDC64XoV?RygPuj-iRhmZrVUz7yPa0SFLPW1FjV2O1UQvco\_d1JlgZeNPS



LUMBER	CHORDS	SIZE	LUMBER	DESCR.
N. L. G. A. RULES				
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
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

#### PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	Edge	3.50
C	TMVW-t	MT20	4.0	6.0		
D	TTVW-m	MT20	5.0	8.0	2.25	3.75
E	TMVW-w	MT20	2.0	4.0		
F	TTVW-m	MT20	5.0	8.0	2.25	3.75
G	TMVW-t	MT20	4.0	6.0		
H	TMVW-p	MT20	5.0	8.0	Edge	3.50
J	BMV1+p	MT20	3.0	4.0		
K	BMVW-t	MT20	5.0	6.0	2.50	2.00
L	BMVW-t	MT20	4.0	6.0		
M	BS-t	MT20	3.0	8.0		
N	BMVW-t	MT20	5.0	6.0		
O	BS-t	MT20	3.0	8.0		
P	BMVW-t	MT20	4.0	6.0		
Q	BMVW-t	MT20	5.0	6.0	2.50	2.00
R	BMV1+p	MT20	3.0	4.0		

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

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
R	2008	0	2008	0	0	5-8	3-0		
J	2008	0	2008	0	0	5-8	3-0		

#### UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1418	944 / 0	0 / 0	0 / 0	0 / 0	474 / 0	0 / 0
J	1418	944 / 0	0 / 0	0 / 0	0 / 0	474 / 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 = 3.19 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	MEMB.
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-91.8 -91.8	0.12 (1)	10.00	Q-C	-337 / 0	0.07 (1)
B-C	-2743 / 0	-91.8 -91.8	0.39 (1)	3.87	C-P	-227 / 0	0.14 (1)
C-D	-2581 / 0	-91.8 -91.8	0.36 (1)	3.99	P-D	0 / 249	0.06 (4)
D-E	-2879 / 0	-91.8 -91.8	0.81 (1)	3.19	D-N	0 / 755	0.17 (1)
E-F	-2879 / 0	-91.8 -91.8	0.81 (1)	3.19	N-E	-814 / 0	0.48 (1)
F-G	-2581 / 0	-91.8 -91.8	0.36 (1)	3.99	N-F	0 / 755	0.17 (1)
G-H	-2743 / 0	-91.8 -91.8	0.39 (1)	3.87	L-F	0 / 249	0.06 (4)
H-I	0 / 28	-91.8 -91.8	0.12 (1)	10.00	L-G	-227 / 0	0.14 (1)
R-B	-1964 / 0	0.0 0.0	0.20 (1)	6.01	K-G	-337 / 0	0.07 (1)
J-H	-1964 / 0	0.0 0.0	0.20 (1)	6.01	B-Q	0 / 2509	0.56 (1)
					K-H	0 / 2509	0.56 (1)
R-O	0 / 0	-18.5 -18.5	0.10 (4)	10.00			
Q-P	0 / 2473	-18.5 -18.5	0.48 (1)	10.00			
P-O	0 / 2290	-18.5 -18.5	0.46 (1)	10.00			
O-N	0 / 2290	-18.5 -18.5	0.46 (1)	10.00			
N-M	0 / 2290	-18.5 -18.5	0.46 (1)	10.00			
M-L	0 / 2290	-18.5 -18.5	0.46 (1)	10.00			
L-K	0 / 2473	-18.5 -18.5	0.48 (1)	10.00			
K-J	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/C

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

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

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

(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 (1.14")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.16")  
ALLOWABLE DEFL.(TL)= L/360 (1.14")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.30")

CSI: TC=0.81/1.00 (E-F:1), BC=0.48/1.00 (K-L:1), WB=0.56/1.00 (B-Q:1), SSI=0.32/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.78 (J) (INPUT = 0.90)  
JSI METAL= 0.77 (O) (INPUT = 0.95)



Structural component only  
DWG# T-2406570

CITY OF RICHMOND HILL  
BUILDING DIVISION

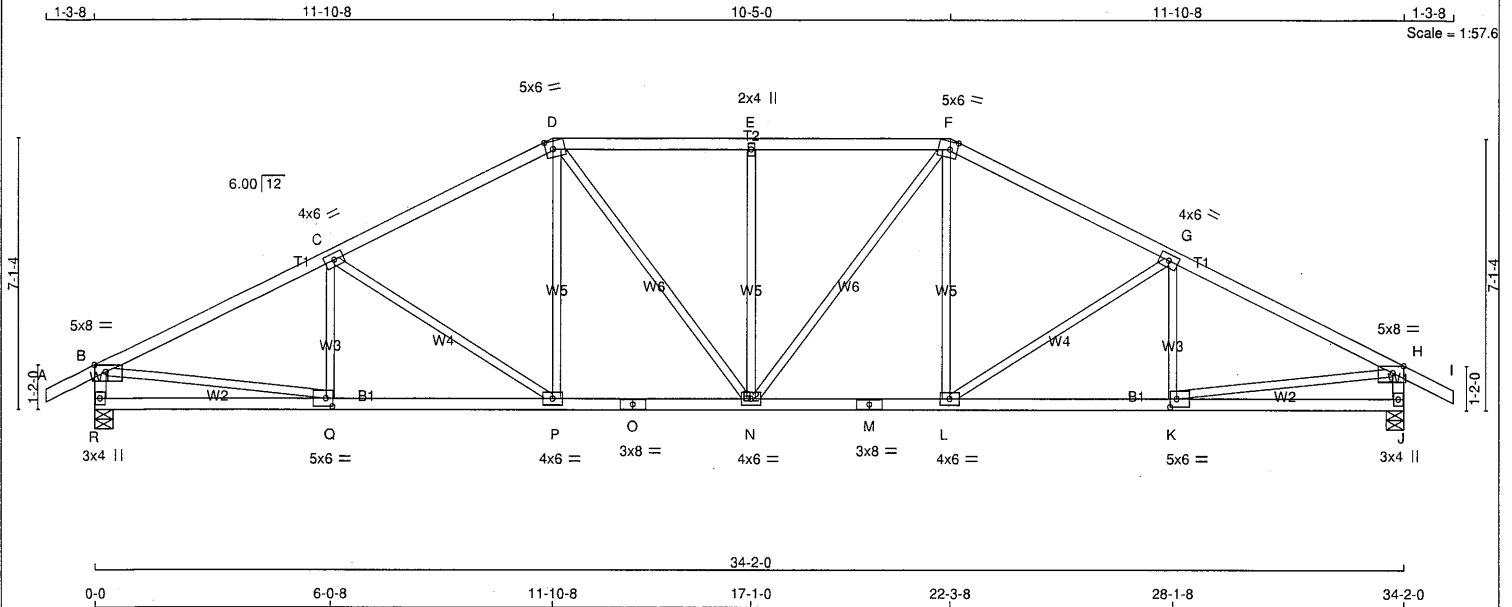
05/01/2024

RECEIVED  
Per: joshua.nabua

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	T4	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Mar 4 08:03:30 2024 Page 1  
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TOTAL WEIGHT = 142 lb [M][F]

LUMBER				DESCR.	
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
A - D	2x4	DRY	No.2	SPF	
D - F	2x4	DRY	No.2	SPF	
F - I	2x4	DRY	No.2	SPF	
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 (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-p	MT20	5.0	8.0	Edge 3.50
C	TMVW-t	MT20	4.0	6.0	
D	TTWW-m	MT20	5.0	6.0	2.50 2.25
E	TMVW-w	MT20	2.0	4.0	
F	TTWW-m	MT20	5.0	6.0	2.50 2.25
G	TMVW-t	MT20	4.0	6.0	
H	TMVW-p	MT20	5.0	8.0	Edge 3.50
K	BMV1+p	MT20	3.0	4.0	
L	BMVW-t	MT20	5.0	6.0	2.50 2.00
M	BS-t	MT20	3.0	8.0	
N	BMVW-t	MT20	4.0	6.0	
O	BS-t	MT20	3.0	8.0	
P	BMVW-t	MT20	4.0	6.0	
Q	BMVW-t	MT20	5.0	6.0	2.50 2.00
R	BMV1+p	MT20	3.0	4.0	

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

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REORD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
R	2008	0	2008	0	0	5-8	3-0	3-0	
J	2008	0	2008	0	0	5-8	3-0	3-0	

#### UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
R	1418	944 / 0	0 / 0	0 / 0	0 / 0	474 / 0	0 / 0	
J	1418	944 / 0	0 / 0	0 / 0	0 / 0	474 / 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 = 3.64 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 (PLF)	LC1 MAX. CSI (LC)	MEMB.	MAX. FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	Q-C	-241 / 18	0.06 (1)
B-C	-2793 / 0	-91.8	-91.8 0.57 (1)	3.64	C-P	-449 / 0	0.43 (1)
C-D	-2431 / 0	-91.8	-91.8 0.51 (1)	3.92	P-D	0 / 353	0.08 (1)
D-E	-2409 / 0	-91.8	-91.8 0.39 (1)	4.06	D-N	0 / 421	0.09 (1)
E-F	-2409 / 0	-91.8	-91.8 0.39 (1)	4.06	N-E	-583 / 0	0.51 (1)
F-G	-2431 / 0	-91.8	-91.8 0.51 (1)	3.92	N-F	0 / 421	0.09 (1)
G-H	-2793 / 0	-91.8	-91.8 0.57 (1)	3.64	L-F	0 / 353	0.08 (1)
H-I	0 / 28	-91.8	-91.8 0.12 (1)	10.00	L-G	-449 / 0	0.43 (1)
R-B	-1959 / 0	0.0	0.0 0.20 (1)	6.02	K-G	-241 / 18	0.06 (1)
J-H	-1959 / 0	0.0	0.0 0.20 (1)	6.02	B-Q	0 / 2549	0.57 (1)
					K-H	0 / 2549	0.57 (1)
R-Q	0 / 0	-18.5	-18.5 0.15 (4)	10.00			
Q-P	0 / 2523	-18.5	-18.5 0.47 (1)	10.00			
P-O	0 / 2153	-18.5	-18.5 0.41 (1)	10.00			
O-N	0 / 2153	-18.5	-18.5 0.41 (1)	10.00			
N-M	0 / 2153	-18.5	-18.5 0.41 (1)	10.00			
M-L	0 / 2153	-18.5	-18.5 0.41 (1)	10.00			
L-K	0 / 2523	-18.5	-18.5 0.47 (1)	10.00			
K-J	0 / 0	-18.5	-18.5 0.15 (4)	10.00			

#### DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

(55 % OF 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 (1.14")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.14")  
ALLOWABLE DEFL.(TL)= L/360 (1.14")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.26")

CSI: TC=0.57/1.00 (B-C:1), BC=0.47/1.00 (P-Q:1),  
WB=0.57/1.00 (B-Q:1), SSI=0.24/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.78 (J) (INPUT = 0.90)  
JSI METAL= 0.65 (O) (INPUT = 0.95)



Structural component only  
DWG# T-2406571

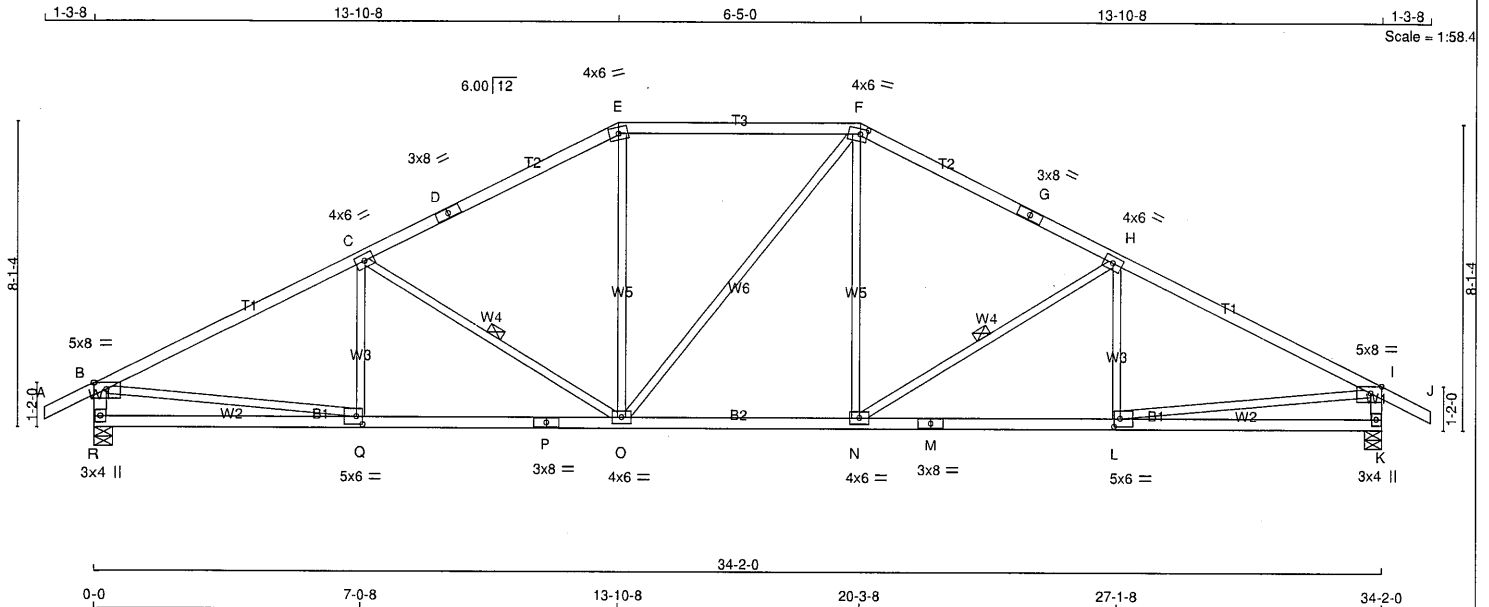
CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

RECEIVED  
Per: joshua.nabua

JOB NAME 436988	TRUSS NAME T5	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.630 S Aug 30 2023 MTek Industries, Inc. Mon Mar 4 08:03:31 2024 Page 1  
ID:1PtZc03lbzkDC64XoV?RygPuj-fqoWz7xVkc7pJbdTqZVK8aOqrAYNU6H4LorkEzeNPQ



TOTAL WEIGHT = 137 lb

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	MT20	5.0	8.0	Edge 3.50	
C	TMWV-t	MT20	4.0	6.0		
D	TS-t	MT20	3.0	8.0		
E	TTW-m	MT20	4.0	6.0		
F	TTWV-m	MT20	4.0	6.0	1.75	2.25
G	TS-t	MT20	3.0	8.0		
H	TMWV-t	MT20	4.0	6.0		
I	TMWV-p	MT20	5.0	8.0	Edge 3.50	
K	BMV1-p	MT20	3.0	4.0		
L	BMWV-t	MT20	5.0	6.0	2.50	2.00
M	BS-t	MT20	3.0	8.0		
N	BMWV-t	MT20	4.0	6.0		
O	BMWV-t	MT20	4.0	6.0		
P	BS-t	MT20	3.0	8.0		
Q	BMWV-t	MT20	5.0	6.0	2.50	2.00
R	BMV1-p	MT20	3.0	4.0		

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

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REORD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
R	2008	0	2008	0	0	5-8	3-0	3-0	3-0
K	2008	0	2008	0	0	5-8	3-0	3-0	3-0

#### UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1418	944 / 0	0 / 0	0 / 0	0 / 0	474 / 0	0 / 0
K	1418	944 / 0	0 / 0	0 / 0	0 / 0	474 / 0	0 / 0

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.31 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-N.

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

#### LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MAX. FACTORED		FACTORED		MAX. FACTORED		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO	LENGTH	FR-TO		
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	Q-C	-169 / 58	0.06 (1)
B-C	-2808 / 0	-91.8	-91.8 0.81 (1)	3.31	C-O	-651 / 0	0.30 (1)
C-D	-2262 / 0	-91.8	-91.8 0.71 (1)	3.75	O-E	0 / 468	0.11 (1)
D-E	-2262 / 0	-91.8	-91.8 0.71 (1)	3.75	O-F	0 / 0	0.00 (1)
E-F	-1998 / 0	-91.8	-91.8 0.56 (1)	4.14	N-F	0 / 467	0.11 (1)
F-G	-2262 / 0	-91.8	-91.8 0.71 (1)	3.75	N-H	-652 / 0	0.30 (1)
G-H	-2262 / 0	-91.8	-91.8 0.71 (1)	3.75	L-H	-169 / 59	0.05 (1)
H-I	-2809 / 0	-91.8	-91.8 0.81 (1)	3.31	B-Q	0 / 2561	0.58 (1)
I-J	0 / 28	-91.8	-91.8 0.12 (1)	10.00	L-I	0 / 2561	0.58 (1)
R-B	-1953 / 0	0.0	0.0 0.20 (1)	6.03			
K-I	-1953 / 0	0.0	0.0 0.20 (1)	6.03			
R-Q	0 / 0	-18.5	-18.5 0.21 (4)	10.00			
Q-P	0 / 2542	-18.5	-18.5 0.50 (1)	10.00			
P-O	0 / 2542	-18.5	-18.5 0.50 (1)	10.00			
O-N	0 / 1997	-18.5	-18.5 0.41 (1)	10.00			
N-M	0 / 2542	-18.5	-18.5 0.51 (1)	10.00			
M-L	0 / 2542	-18.5	-18.5 0.51 (1)	10.00			
L-K	0 / 0	-18.5	-18.5 0.21 (4)	10.00			

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEF.(LL) = L/360 (1.14")  
CALCULATED VERT. DEF.(LL) = L/999 (0.13")  
ALLOWABLE DEF.(TL) = L/360 (1.14")  
CALCULATED VERT. DEF.(TL) = L/999 (0.26")

CSI: TC=0.81/1.00 (H-I), BC=0.51/1.00 (L-N), WB=0.58/1.00 (I-L), SSI=0.28/1.00 (B-C-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

#### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.78 (K) (INPUT = 0.90)  
JSI METAL= 0.79 (M) (INPUT = 0.95)



Structural component only  
DWG# T-2406572

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

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Tamarack Roof Truss, Burlington



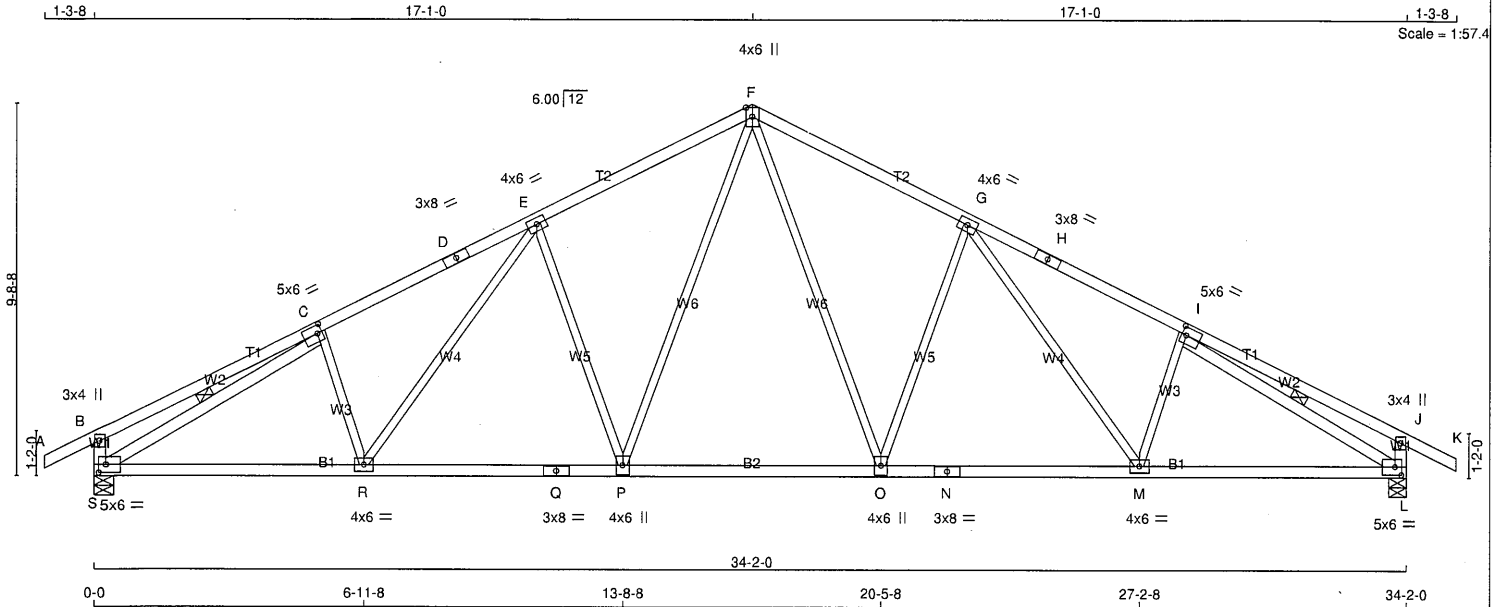
**RECEIVED**  
Per: joshua.nabua



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	T7	4	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:1PtZEzc03lbzkDC64XoV?RygPuj-3PUfc9zdfahgnKC8y6CynCzh2BBaqZjmJOVLZzeNPN



TOTAL WEIGHT = 4 X 148 = 590 lb [M][F]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMV+p	MT20	3.0	4.0	
C TMWW-t	MT20	5.0	6.0	2.50 1.50
D TS-t	MT20	3.0	8.0	
E TMWW-t	MT20	4.0	6.0	
F TTWW+p	MT20	4.0	6.0	Edge
G TMWW-t	MT20	4.0	6.0	
H TS-t	MT20	3.0	8.0	
I TMWW-t	MT20	5.0	6.0	2.50 1.50
J TMV+p	MT20	3.0	4.0	
L BMWW-t	MT20	5.0	6.0	2.50 2.00
M BMWW-t	MT20	4.0	6.0	
N BS-t	MT20	3.0	8.0	
O BMWW-t	MT20	4.0	6.0	
P BMWW-t	MT20	4.0	6.0	
Q BS-t	MT20	3.0	8.0	
R BMWW-t	MT20	4.0	6.0	
S BMWW-t	MT20	5.0	6.0	2.50 2.00

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

NOTES: (1)  
1)

#### 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
S	2008	0	2008	0	0	5-8	2-3		
L	2008	0	2008	0	0	5-8	2-3		

#### UNFACTORED REACTIONS

JT	1ST LCASE	MAX / MIN	COMPONENT REACTIONS						
S	1418	944 / 0	0 / 0	0 / 0	0 / 0	474 / 0	0 / 0		
L	1418	944 / 0	0 / 0	0 / 0	0 / 0	474 / 0	0 / 0		

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.85 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-S, 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)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	F-O	0 / 838	0.19 (1)
B-C	0 / 22	-91.8	-91.8 0.38 (1)	10.00	O-G	-701 / 0	0.65 (1)
C-D	-2712 / 0	-91.8	-91.8 0.45 (1)	3.85	G-M	0 / 371	0.08 (1)
D-E	-2712 / 0	-91.8	-91.8 0.45 (1)	3.85	M-I	-179 / 20	0.05 (1)
E-F	-2249 / 0	-91.8	-91.8 0.43 (1)	4.16	P-F	0 / 838	0.19 (1)
F-G	-2249 / 0	-91.8	-91.8 0.43 (1)	4.16	E-P	-701 / 0	0.65 (1)
G-H	-2712 / 0	-91.8	-91.8 0.45 (1)	3.85	R-E	0 / 371	0.08 (1)
H-I	-2712 / 0	-91.8	-91.8 0.45 (1)	3.85	C-R	-179 / 20	0.05 (1)
I-J	0 / 22	-91.8	-91.8 0.38 (1)	10.00	S-C	-2962 / 0	0.66 (1)
J-K	0 / 28	-91.8	-91.8 0.12 (1)	10.00	I-L	-2962 / 0	0.66 (1)
S-B	-338 / 0	0.0	0.0 0.03 (1)	7.81			
L-J	-338 / 0	0.0	0.0 0.03 (1)	7.81			
S-R	0 / 2484	-18.5	-18.5 0.51 (1)	10.00			
R-Q	0 / 2217	-18.5	-18.5 0.45 (1)	10.00			
Q-P	0 / 2217	-18.5	-18.5 0.45 (1)	10.00			
P-O	0 / 1707	-18.5	-18.5 0.36 (1)	10.00			
O-N	0 / 2217	-18.5	-18.5 0.45 (1)	10.00			
N-M	0 / 2217	-18.5	-18.5 0.45 (1)	10.00			
M-L	0 / 2484	-18.5	-18.5 0.51 (1)	10.00			

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

##### SPACING = 24.0 IN. C/C

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

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

(55 % OF 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 (1.14")  
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.13")  
ALLOWABLE DEFL.(TL)= L/360 (1.14")  
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.26")

CSI: TC=0.45/1.00 (C-E:1), BC=0.51/1.00 (L-M:1), WB=0.66/1.00 (I-L:1), SSI=0.22/1.00 (I-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.79 (C) (INPUT = 0.90)  
JSI METAL = 0.67 (C) (INPUT = 0.95)



Structural component only  
DWG# T-2406574

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BUILDING DIVISION

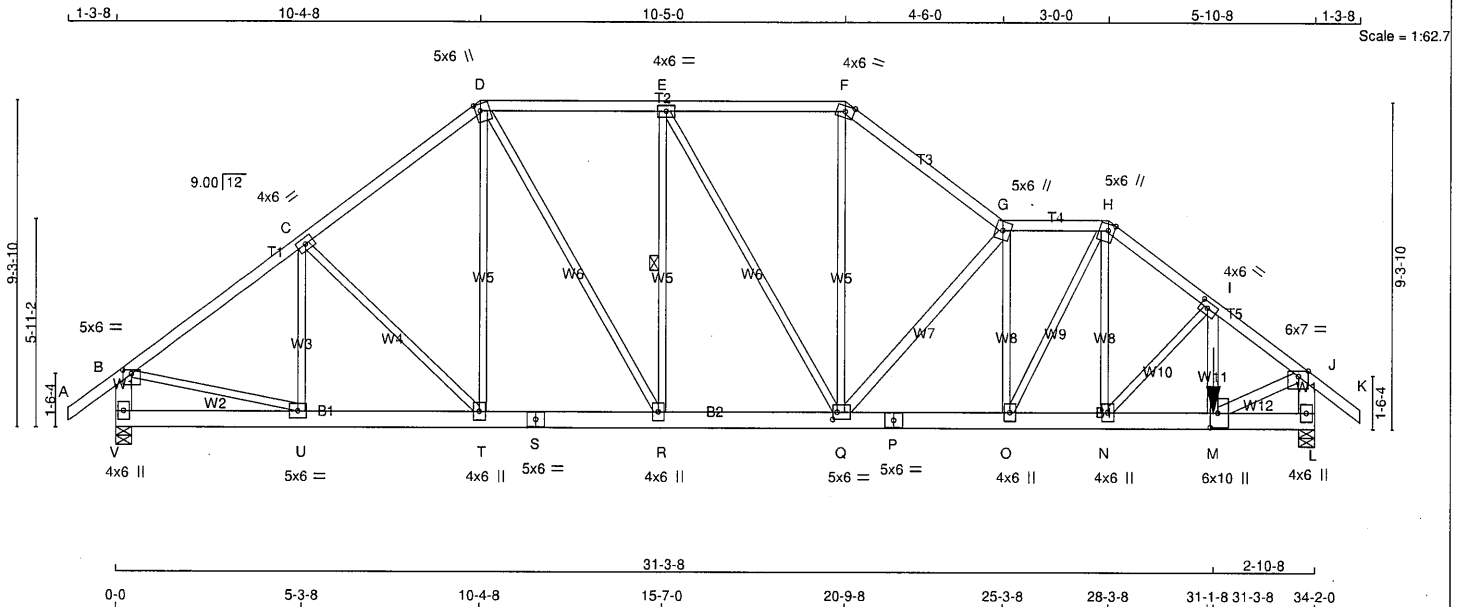
05/01/2024

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Per: joshua.nabua

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	T8	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MITek Industries, Inc. Mon Mar 4 08:03:35 2024 Page 1  
ID:1PtZc03lbzKDC64XoV?RygPuj-Yb21pV\_FZziYlxvPifdRU\_IB7SYoJHJs?zm3t?zeNPM



TOTAL WEIGHT = 2 X 195 = 390 lb

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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-D	12	TOP
D-F	12	TOP
F-G	12	TOP
G-H	12	TOP
H-K	12	TOP
V-B	12	TOP
L-J	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
V-S	12	TOP
S-P	12	TOP
P-L	12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	SIDE(816.1)
1-M	3	
2x4	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

#### 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	UPLIFT	IN-SX
V	2335	0	5-8	1-8
L	5516	0	5-8	3-7

#### UNFACTORED REACTIONS

1ST LCASE	MAX /MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
V	1648	1100 / 0	0 / 0	0 / 0	0 / 0	548 / 0	0 / 0
L	3889	2616 / 0	0 / 0	0 / 0	0 / 0	1273 / 0	0 / 0

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.98 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-R.

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	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX. CSI (LC)	UNBRAC LENGTH	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO			FROM	TO			FR-TO			
A-B	0 / 38	-91.8	-91.8	0.07 (1)	10.00	U-C	-350 / 0	0.08 (1)		
B-C	-2531 / 0	-91.8	-91.8	0.28 (1)	5.40	C-T	-199 / 0	0.10 (1)		
C-D	-2425 / 0	-91.8	-91.8	0.27 (1)	5.49	T-D	0 / 253	0.03 (1)		
D-E	-2390 / 0	-91.8	-91.8	0.26 (1)	5.52	D-R	0 / 948	0.12 (1)		
E-F	-2477 / 0	-91.8	-91.8	0.26 (1)	5.44	R-E	-724 / 0	0.20 (1)		
F-G	-3076 / 0	-91.8	-91.8	0.23 (1)	5.05	E-Q	0 / 175	0.02 (1)		
G-H	-3700 / 0	-91.8	-91.8	0.12 (1)	4.80	Q-F	0 / 1447	0.18 (1)		
H-I	-4147 / 0	-91.8	-91.8	0.13 (1)	4.58	Q-G	-1958 / 0	0.69 (1)		
I-J	-5643 / 0	-91.8	-91.8	0.17 (1)	3.98	O-G	-684 / 0	0.18 (1)		
J-K	0 / 38	-91.8	-91.8	0.07 (1)	10.00	O-H	0 / 794	0.10 (1)		
V-B	-2282 / 0	0.0	0.0	0.08 (1)	7.81	N-H	0 / 1531	0.19 (1)		
L-J	-5369 / 0	0.0	0.0	0.19 (1)	6.32	N-I	-1777 / 0	0.30 (1)		
V-U	0 / 0	-18.5	-18.5	0.03 (4)	10.00	M-I	0 / 1895	0.17 (1)		
U-T	0 / 2051	-18.5	-18.5	0.15 (1)	10.00	B-U	0 / 2096	0.26 (1)		
T-S	0 / 1912	-18.5	-18.5	0.14 (1)	10.00	M-J	0 / 4840	0.43 (1)		
S-R	0 / 1912	-18.5	-18.5	0.14 (1)	10.00					
R-Q	0 / 2391	-18.5	-18.5	0.17 (1)	10.00					
Q-P	0 / 3713	-18.5	-18.5	0.27 (1)	10.00					
P-O	0 / 3713	-18.5	-18.5	0.27 (1)	10.00					
O-N	0 / 3332	-18.5	-18.5	0.25 (1)	10.00					
N-M	0 / 4520	-18.5	-18.5	0.42 (1)	10.00					
M-L	0 / 0	-18.5	-18.5	0.13 (1)	10.00					

#### SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
M	31-3-8	-2699	-2699	---	BACK	VERT	TOTAL	---	C1

#### CONNECTION REQUIREMENTS

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

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 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 (1.14")  
CALCULATED VERT. DEFL.(LL)= L/999 (0.07")  
ALLOWABLE DEFL.(TL)= L/360 (1.14")  
CALCULATED VERT. DEFL.(TL)= L/999 (0.12")

CSI: TC=0.28/1.00 (B-C:1), BC=0.42/1.00 (M-N:1), WB=0.69/1.00 (G-Q:1), SSI=0.13/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

#### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.77 (M) (INPUT = 0.90)  
JSI METAL= 0.68 (M) (INPUT = 0.95)



Structural component only  
DWG# T-2406575

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

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CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
436988	T8	1	2	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Mar 4 08:03:35 2024 Page 2

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.25	3.00
C	TMVW-t	MT20	4.0	6.0		
D	TTWW+m	MT20	5.0	6.0	2.25	1.75
E	TMVW-t	MT20	4.0	6.0		
F	TTW-m	MT20	4.0	6.0	Edge	
G	TTWW+m	MT20	5.0	6.0		
H	TTWW+m	MT20	5.0	6.0	Edge	2.00
I	TMVW-t	MT20	4.0	6.0	2.00	2.75
J	TMVW-p	MT20	6.0	7.0	Edge	3.25
L	BMV1+p	MT20	4.0	6.0		
M	BMVW+t	MT20	6.0	10.0	5.00	2.50
N, O, R, T						
N	BMVW+t	MT20	4.0	6.0		
P	BS-t	MT20	5.0	6.0		
Q	BMVWW-t	MT20	5.0	6.0	2.50	1.50
S	BS-t	MT20	5.0	6.0		
U	BMVW-t	MT20	5.0	6.0		
V	BMV1+p	MT20	4.0	6.0		

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

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



Structural component only  
DWG# T-2406575

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

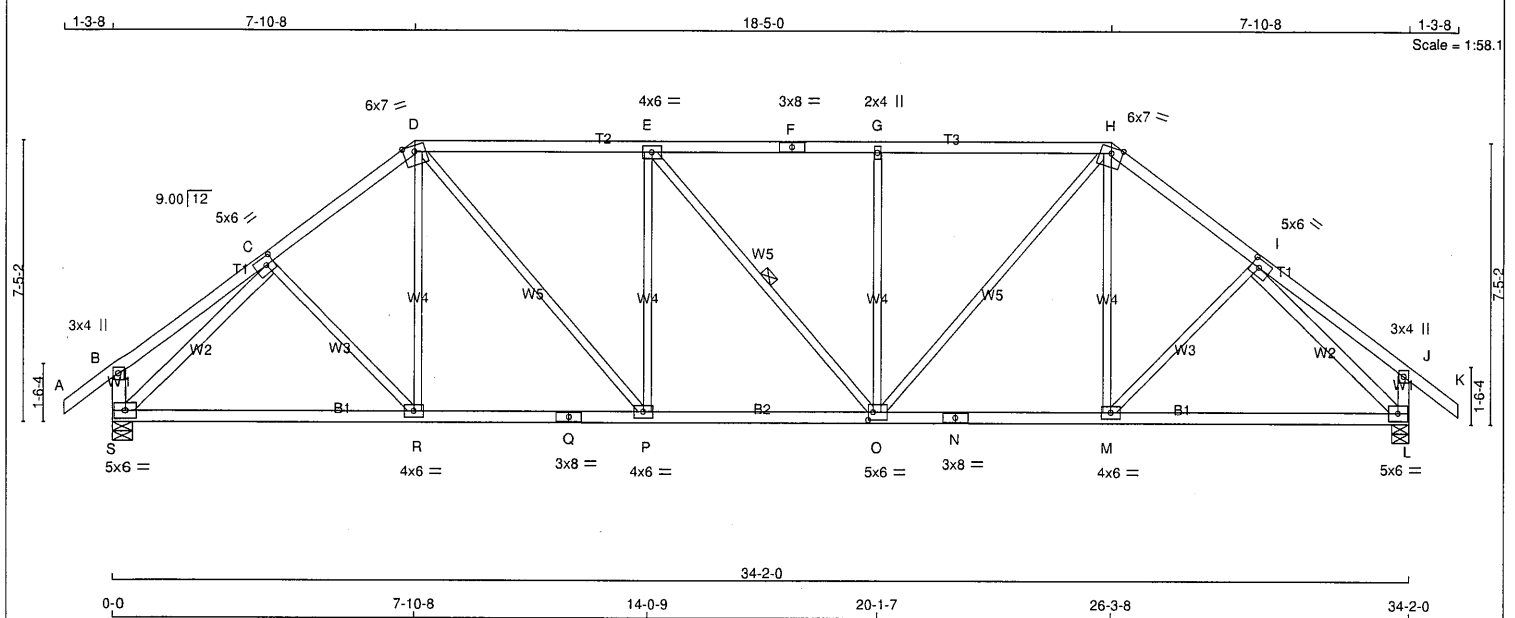
RECEIVED  
Per: joshua.nabua



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	T9	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Mar 4 08:03:36 2024 Page 1  
ID:1PtZEc03lbzKDC64XoV?RygPuj-0ocP1q\_tKGqPv4UbGN8g1CIHHru?2hW0EdVcPRzeNPL



TOTAL WEIGHT = 2 X 154 = 309 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0	
C	TMWW-t	MT20	5.0	6.0	2.50 2.50
D	TTWW-m	MT20	6.0	7.0	Edge
E	TMWW-t	MT20	4.0	6.0	
F	TS-t	MT20	3.0	8.0	
G	TMW+w	MT20	2.0	4.0	
H	TTWW-m	MT20	6.0	7.0	Edge
I	TMWW-t	MT20	5.0	6.0	2.50 2.50
J	TMV+p	MT20	3.0	4.0	
L	BMVW1-t	MT20	5.0	6.0	
M, P, R					
M	BMWW-t	MT20	4.0	6.0	
N	BS-t	MT20	3.0	8.0	
O	BMWWW-t	MT20	5.0	6.0	2.50 1.50
Q	BS-t	MT20	3.0	8.0	
S	BMVW1-t	MT20	5.0	6.0	

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

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
S	2010	0	2010	0	0	5-8	2-3		
L	2010	0	2010	0	0	5-8	2-3		

#### UNFACTORED REACTIONS

1ST LCASE		MAX / MIN. COMPONENT REACTIONS		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE								
S	1419	945 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	474 / 0	0 / 0	0 / 0	0 / 0
L	1419	945 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	474 / 0	0 / 0	0 / 0	0 / 0

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.88 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-O.

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

#### LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 38	-91.8	-91.8 0.12 (1)	10.00	C-R	0 / 62	0.02 (4)
B-C	0 / 24	-91.8	-91.8 0.22 (1)	10.00	R-D	0 / 132	0.04 (4)
C-D	-2050 / 0	-91.8	-91.8 0.29 (1)	4.46	D-P	0 / 942	0.21 (1)
D-E	-2236 / 0	-91.8	-91.8 0.64 (1)	3.88	P-E	-609 / 0	0.60 (1)
E-F	-2235 / 0	-91.8	-91.8 0.63 (1)	3.88	E-O	-2 / 0	0.00 (1)
F-G	-2235 / 0	-91.8	-91.8 0.63 (1)	3.88	O-G	-608 / 0	0.60 (1)
G-H	-2235 / 0	-91.8	-91.8 0.63 (1)	3.89	O-H	0 / 939	0.21 (1)
H-I	-2050 / 0	-91.8	-91.8 0.29 (1)	4.46	M-H	0 / 133	0.04 (4)
I-J	0 / 24	-91.8	-91.8 0.22 (1)	10.00	M-I	0 / 62	0.02 (4)
J-K	0 / 38	-91.8	-91.8 0.12 (1)	10.00	S-C	-2320 / 0	0.89 (1)
S-B	-266 / 0	0.0	0.0 0.03 (1)	7.81	I-L	-2320 / 0	0.89 (1)
L-J	-266 / 0	0.0	0.0 0.03 (1)	7.81			
S-R	0 / 1596	-18.5	-18.5 0.40 (1)	10.00			
R-Q	0 / 1619	-18.5	-18.5 0.40 (1)	10.00			
Q-P	0 / 1619	-18.5	-18.5 0.40 (1)	10.00			
P-O	0 / 2236	-18.5	-18.5 0.42 (1)	10.00			
O-N	0 / 1620	-18.5	-18.5 0.40 (1)	10.00			
N-M	0 / 1620	-18.5	-18.5 0.40 (1)	10.00			
M-L	0 / 1596	-18.5	-18.5 0.40 (1)	10.00			

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

(55 % OF 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 (1.14")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.10")  
ALLOWABLE DEFL.(TL)= L/360 (1.14")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")

CSI: TC=0.64/1.00 (D-E:1), BC=0.42/1.00 (O-P:1),  
WB=0.89/1.00 (I-L:1), SSI=0.26/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

#### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.79 (L) (INPUT = 0.90)  
JSI METAL= 0.52 (I) (INPUT = 0.95)



Structural component only  
DWG# T-2406576

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

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[illegible]

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
436988	T11	1	2	GREEN PARK HOMES	
				TRUSS DESC.	

Tamarack Roof Truss, Burlington

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**PLATES (table is in inches)**

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWW-p	MT20	5.0	6.0	1.25	3.00
C	TTWW+m	MT20	6.0	7.0	Edge	2.00
D	TMWW-t	MT20	4.0	6.0		
E	TMW+w	MT20	2.0	4.0		
F	TS-t	MT20	3.0	8.0		
G	TMWW-t	MT20	4.0	6.0		
H	TTWW+m	MT20	6.0	7.0	Edge	2.00
I	TMWW-p	MT20	5.0	6.0	1.25	3.00
K	BMV1+p	MT20	4.0	6.0		
L	BMWW-t	MT20	5.0	6.0		
M	BMWW-t	MT20	5.0	6.0		
N	BS-t	MT20	5.0	6.0		
O	BMWW-t	MT20	5.0	6.0		
P	BS-t	MT20	5.0	6.0		
Q	BMWW-t	MT20	5.0	6.0		
R	BMWW-t	MT20	5.0	6.0		
S	BMV1+p	MT20	4.0	6.0		

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

**NOTES- (1)**

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

**CONNECTION REQUIREMENTS**

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



Structural component only  
DWG# T-2406578

CITY OF RICHMOND HILL  
BUILDING DIVISION

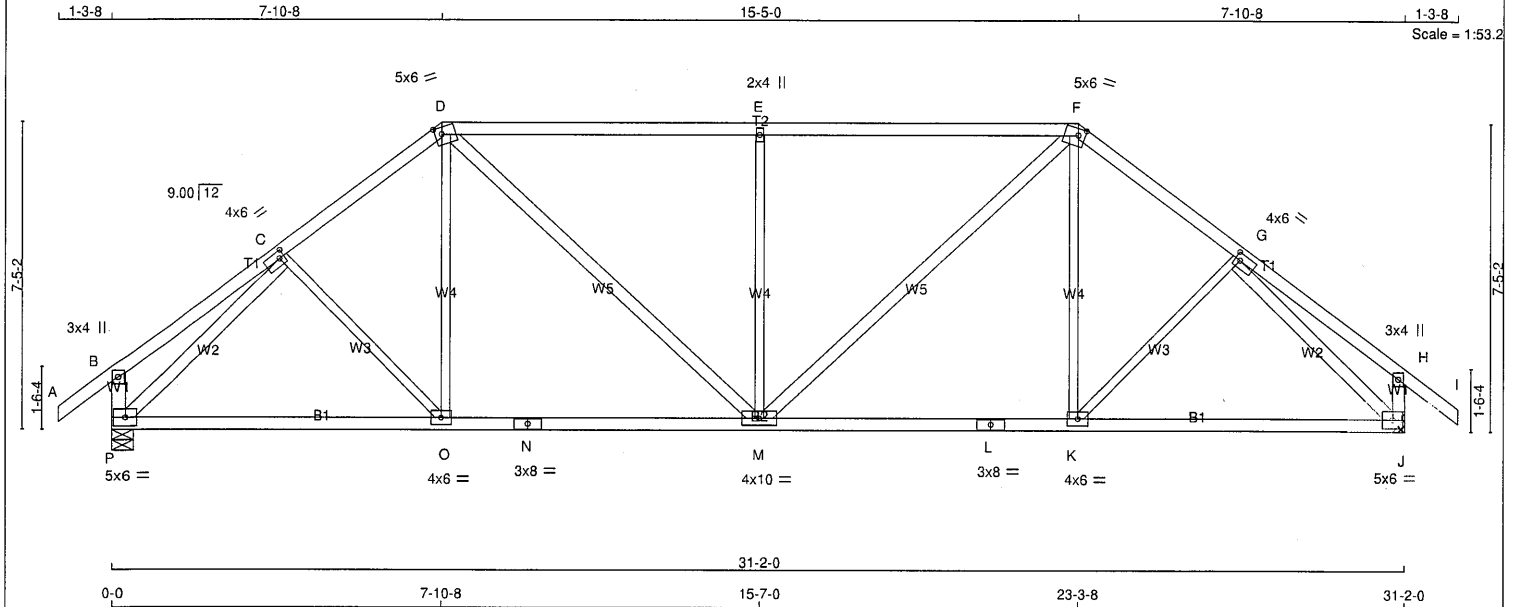
05/01/2024

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Per: joshua.nabua

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	T12	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 143 lb

#### LUMBER

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

A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
F - I	2x4	DRY	No.2	SPF
P - B	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
P - N	2x4	DRY	No.2	SPF
N - L	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF

ALL WEBS	2x4	DRY	No.2	SPF
EXCEPT				
C - O	2x3	DRY	No.2	SPF
O - D	2x3	DRY	No.2	SPF
M - E	2x3	DRY	No.2	SPF
K - F	2x3	DRY	No.2	SPF
K - G	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMV+p	MT20	3.0	4.0		
C TMWW-t	MT20	4.0	6.0	2.00	1.50
D TTWW-m	MT20	5.0	6.0	2.00	2.00
E TMW+w	MT20	2.0	4.0		
F TTWW-m	MT20	5.0	6.0	2.00	2.00
G TMWW-t	MT20	4.0	6.0	2.00	1.50
H TMV+p	MT20	3.0	4.0		
J BMVW1-t	MT20	5.0	6.0		
K BMWW-t	MT20	4.0	6.0		
L BS-t	MT20	3.0	8.0		
M BMWW-t	MT20	4.0	10.0		
N BS-t	MT20	3.0	8.0		
O BMWW-t	MT20	4.0	6.0		
P BMVW1-t	MT20	5.0	6.0		

#### NOTES:

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

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

##### BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT VERT	1845	1845	0	0
P	1845	1845	0	0
J	1845	1845	0	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT J. MINIMUM BEARING LENGTH AT JOINT J = 2-0.

##### UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. SNOW	MAX./MIN. LIVE	MAX./MIN. PERM. LIVE	WIND	DEAD	SOIL
P	1302	868 / 0	0 / 0	0 / 0	0 / 0	434 / 0	0 / 0
J	1302	868 / 0	0 / 0	0 / 0	0 / 0	434 / 0	0 / 0

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.63 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. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	UNBRACED LENGTH
FR-TO				FR-TO			
A-B	0 / 38	-91.8	-91.8 0.12 (1)	10.00	C-O	-8 / 49	0.02 (4)
B-C	0 / 24	-91.8	-91.8 0.22 (1)	10.00	O-D	0 / 171	0.05 (4)
C-D	-1823 / 0	-91.8	-91.8 0.21 (1)	4.78	D-M	0 / 736	0.12 (1)
D-E	-1979 / 0	-91.8	-91.8 0.82 (1)	3.63	M-E	-871 / 0	0.86 (1)
E-F	-1979 / 0	-91.8	-91.8 0.82 (1)	3.63	M-F	0 / 736	0.12 (1)
F-G	-1823 / 0	-91.8	-91.8 0.21 (1)	4.78	K-F	0 / 171	0.05 (4)
G-H	0 / 24	-91.8	-91.8 0.22 (1)	10.00	K-G	-8 / 49	0.02 (4)
H-I	0 / 38	-91.8	-91.8 0.12 (1)	10.00	P-C	-2095 / 0	0.80 (1)
P-B	-266 / 0	0.0	0.0 0.03 (1)	7.81	G-J	-2095 / 0	0.80 (1)
J-H	-266 / 0	0.0	0.0 0.03 (1)	7.81			
P-O	0 / 1441	-18.5	-18.5 0.40 (4)	10.00			
O-N	0 / 1438	-18.5	-18.5 0.41 (4)	10.00			
N-M	0 / 1438	-18.5	-18.5 0.41 (4)	10.00			
M-L	0 / 1438	-18.5	-18.5 0.41 (4)	10.00			
L-K	0 / 1438	-18.5	-18.5 0.41 (4)	10.00			
K-J	0 / 1441	-18.5	-18.5 0.40 (4)	10.00			

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.04")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")  
ALLOWABLE DEFL.(TL)= L/360 (1.04")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CSI: TC=0.82/1.00 (E-F:1), BC=0.41/1.00 (K-M:4), WB=0.86/1.00 (E-M:1), SSI=0.34/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

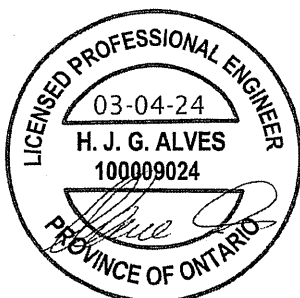
##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.78 (C) (INPUT = 0.90)  
JSI METAL= 0.47 (C) (INPUT = 0.95)



Structural component only  
DWG# T-2406579

CITY OF RICHMOND HILL  
BUILDING DIVISION

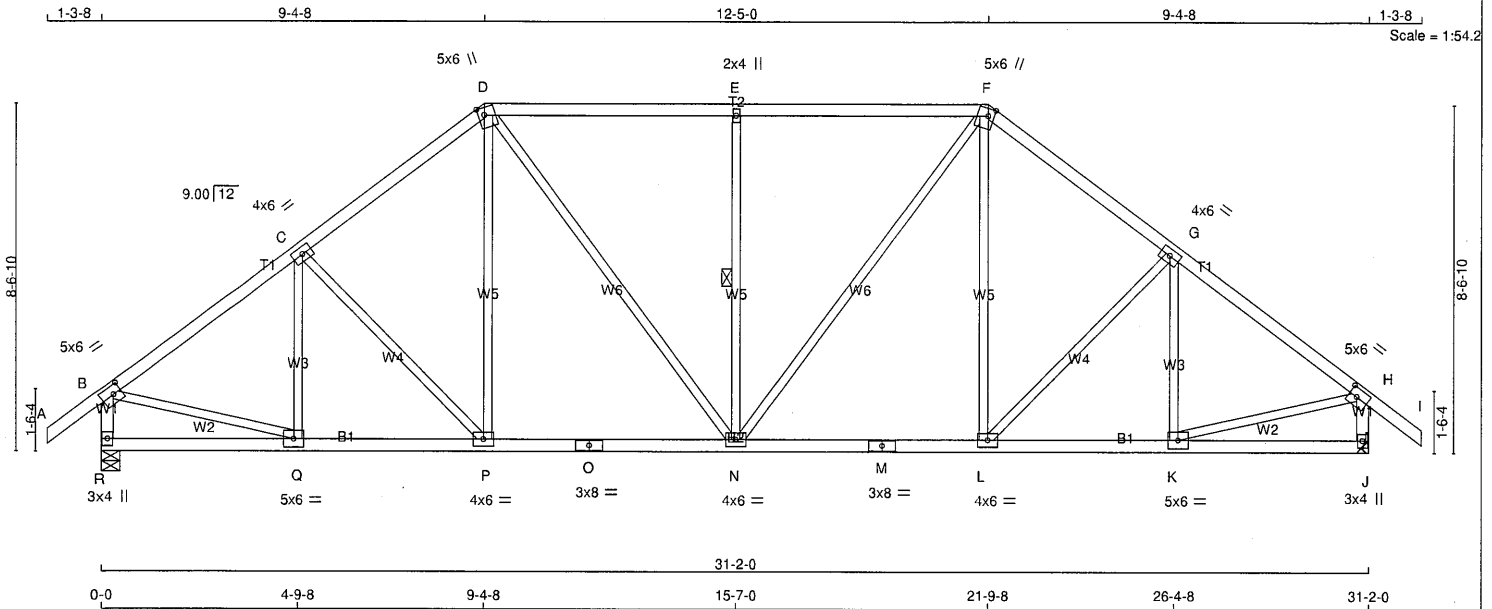
05/01/2024

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Per: joshua.nabua



JOB NAME <b>436988</b>	TRUSS NAME <b>T13</b>	QUANTITY <b>1</b>	PLY <b>1</b>	JOB DESC. <b>GREEN PARK HOMES</b>	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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TOTAL WEIGHT = 144 lb [M/F]

#### LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
F - I	2x4	DRY	No.2	SPF
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 (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	6.0	2.50	2.50
C	TMVW-t	MT20	4.0	6.0		
D	TTWW+m	MT20	5.0	6.0	2.25	1.75
E	TMVW-w	MT20	2.0	4.0		
F	TTWW+m	MT20	5.0	6.0	2.25	1.75
G	TMVW-t	MT20	4.0	6.0		
H	TMVW-t	MT20	5.0	6.0	2.50	2.50
J	BMV1+p	MT20	3.0	4.0		
K	BMVW-t	MT20	5.0	6.0		
L	BMVW-t	MT20	4.0	6.0		
M	BS-t	MT20	3.0	8.0		
N	BMVWW-t	MT20	4.0	6.0		
O	BS-t	MT20	3.0	8.0		
P	BMVW-t	MT20	4.0	6.0		
Q	BMVW-t	MT20	5.0	6.0		
R	BMV1+p	MT20	3.0	4.0		

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

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

BEARINGS	FACTORED		MAXIMUM FACTORED		INPUT		REQD	
	GROSS	REACTION	GROSS	REACTION	BRG	BRG	IN-SX	IN-SX
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
R	1845	0	1845	0	0	5-8	2-8	
J	1845	0	1845	0	0	MECHANICAL		

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT J. MINIMUM BEARING LENGTH AT JOINT J = 2-8.

#### UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1302	868 / 0	0 / 0	0 / 0	0 / 0	434 / 0	0 / 0
J	1302	868 / 0	0 / 0	0 / 0	0 / 0	434 / 0	0 / 0

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

#### BRACING

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

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

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

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

#### LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS1 (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)	
FR-TO		FROM TO		LENGTH FR-TO				
A-B	0 / 38	-91.8	-91.8	0.12 (1)	10.00	Q-C	-288 / 0	0.11 (1)
B-C	-1858 / 0	-91.8	-91.8	0.31 (1)	4.64	C-P	-201 / 0	0.17 (1)
C-D	-1747 / 0	-91.8	-91.8	0.30 (1)	4.76	P-D	0 / 247	0.06 (1)
D-E	-1679 / 0	-91.8	-91.8	0.50 (1)	4.54	D-N	0 / 509	0.11 (1)
E-F	-1679 / 0	-91.8	-91.8	0.50 (1)	4.54	N-E	-698 / 0	0.33 (1)
F-G	-1747 / 0	-91.8	-91.8	0.30 (1)	4.76	N-F	0 / 509	0.11 (1)
G-H	-1858 / 0	-91.8	-91.8	0.31 (1)	4.64	L-F	0 / 247	0.06 (1)
H-I	0 / 38	-91.8	-91.8	0.12 (1)	10.00	L-G	-201 / 0	0.17 (1)
R-B	-1806 / 0	0.0	0.0	0.19 (1)	6.23	K-G	-288 / 0	0.11 (1)
J-H	-1806 / 0	0.0	0.0	0.19 (1)	6.23	B-Q	0 / 1557	0.35 (1)
						K-H	0 / 1557	0.35 (1)
R-Q	0 / 0	-18.5	-18.5	0.09 (4)	10.00			
Q-P	0 / 1510	-18.5	-18.5	0.31 (1)	10.00			
P-O	0 / 1373	-18.5	-18.5	0.30 (1)	10.00			
O-N	0 / 1373	-18.5	-18.5	0.30 (1)	10.00			
N-M	0 / 1373	-18.5	-18.5	0.30 (1)	10.00			
M-L	0 / 1373	-18.5	-18.5	0.30 (1)	10.00			
L-K	0 / 1510	-18.5	-18.5	0.31 (1)	10.00			
K-J	0 / 0	-18.5	-18.5	0.09 (4)	10.00			

#### DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.04")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")  
ALLOWABLE DEFL.(TL) = L/360 (1.04")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.50/1.00 (E-F:1), BC=0.31/1.00 (K-L:1), WB=0.35/1.00 (B-Q:1), SSI=0.28/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.78 (H) (INPUT = 0.90)  
JSI METAL = 0.47 (O) (INPUT = 0.95)



Structural component only  
DWG# T-2406580

CITY OF RICHMOND HILL  
BUILDING DIVISION

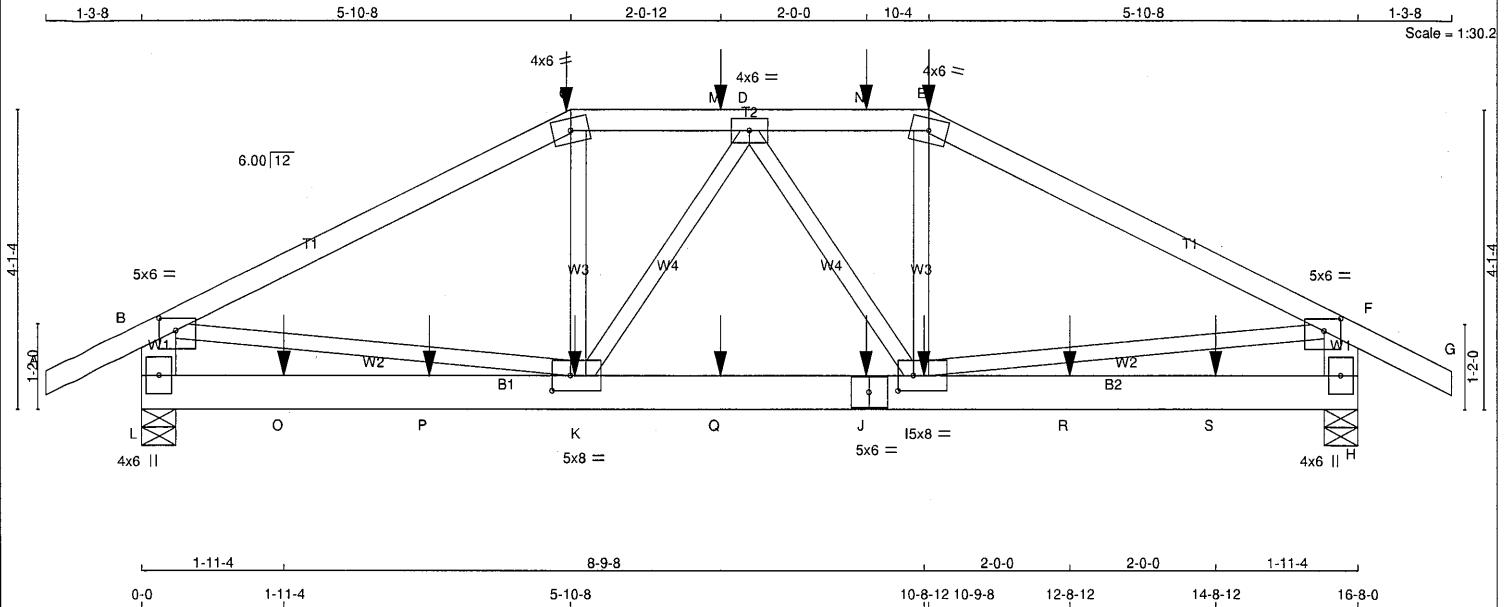
05/01/2024

RECEIVED  
Per: joshua.nabua

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	T14	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Mar 4 08:03:41 2024 Page 1  
ID:1PtZEc03lbzkDC64XoV?RygPuj-MIPI4Y209pTi0sMY2wkrkF?5Msd7j2NINvDN5fzeNPG



TOTAL WEIGHT = 77 lb

LUMBER				DESCR.	
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
A - C	2x4	DRY	No.2	SPF	
C - E	2x4	DRY	No.2	SPF	
E - G	2x4	DRY	No.2	SPF	
L - B	2x6	DRY	No.2	SPF	
H - F	2x6	DRY	No.2	SPF	
L - J	2x6	DRY	No.2	SPF	
J - 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	6.0	2.00 2.75
C	TTW-m	MT20	4.0	6.0	
D	TMVW-t	MT20	4.0	6.0	
E	TTW-m	MT20	4.0	6.0	
F	TMVW-p	MT20	5.0	6.0	2.00 2.75
H	BMV1+p	MT20	4.0	6.0	
I	BMVWVW-t	MT20	5.0	8.0	2.50 2.50
J	BS-t	MT20	5.0	6.0	
K	BMVWVW-t	MT20	5.0	8.0	2.50 3.00
L	BMV1+p	MT20	4.0	6.0	

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQ'D	
JT	VERT	GROSS	REACT	GROSS	REACT	BRG	IN-SX	BRG	IN-SX
L	1618	0	1618	0	0	5-8	1-12	5-8	1-12
H	1639	0	1639	0	0	5-8	1-12	5-8	1-12

#### UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM	LIVE	WIND	DEAD	SOIL
L	1144	752 / 0	0 / 0	0 / 0	0 / 0	0 / 0	392 / 0	0 / 0
H	1159	761 / 0	0 / 0	0 / 0	0 / 0	0 / 0	398 / 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 = 3.66 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		FACTORED		WEBS		FACTORED	
MEMB.	FORCE	VERT. LOAD	LC1 MAX	MEMB.	FORCE	VERT. LOAD	LC1 MAX
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 28	-91.8	-91.8 0.13 (1)	K-C	0 / 177	0.06 (4)	
B-C	-2037 / 0	-91.8	-91.8 0.80 (1)	K-D	-277 / 0	0.09 (1)	
C-M	-1828 / 0	-91.8	-91.8 0.18 (1)	D-I	-217 / 0	0.07 (1)	
M-D	-1828 / 0	-91.8	-91.8 0.18 (1)	I-E	0 / 164	0.06 (4)	
D-N	-1860 / 0	-91.8	-91.8 0.19 (1)	B-K	0 / 1836	0.45 (1)	
N-E	-1860 / 0	-91.8	-91.8 0.19 (1)	I-F	0 / 1869	0.46 (1)	
E-F	-2074 / 0	-91.8	-91.8 0.81 (1)				
F-G	0 / 28	-91.8	-91.8 0.13 (1)				
L-B	-1540 / 0	0.0	0.0 0.11 (1)				
H-F	-1561 / 0	0.0	0.0 0.11 (1)				
L-O	0 / 0	-18.5	-18.5 0.14 (4)				
O-P	0 / 0	-18.5	-18.5 0.14 (4)				
P-K	0 / 0	-18.5	-18.5 0.14 (4)				
K-Q	0 / 1974	-18.5	-18.5 0.30 (1)				
Q-J	0 / 1974	-18.5	-18.5 0.30 (1)				
J-I	0 / 1974	-18.5	-18.5 0.30 (1)				
I-R	0 / 0	-18.5	-18.5 0.14 (4)				
R-S	0 / 0	-18.5	-18.5 0.14 (4)				
S-H	0 / 0	-18.5	-18.5 0.14 (4)				

#### SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	5-10-8	-254	-254	---	FRONT	VERT	TOTAL	---	C1
E	10-9-8	-254	-254	---	FRONT	VERT	TOTAL	---	C1
I	10-8-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
J	9-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
K	5-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
M	7-11-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
N	9-11-4	-81	-81	---	FRONT	VERT	TOTAL	---	C1
O	1-11-4	-20	-20	---	FRONT	VERT	TOTAL	---	C1
P	3-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
Q	7-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
R	12-8-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
S	14-8-12	-20	-20	---	FRONT	VERT	TOTAL	---	C1

#### CONNECTION REQUIREMENTS

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

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.56")  
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")  
ALLOWABLE DEFL.(TL)= L/360 (0.56")  
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.81/1.00 (E-F:1), BC=0.30/1.00 (I-K:1),  
WB=0.46/1.00 (F-I:1), SSI=0.21/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.78 (I) (INPUT = 0.90)  
JSI METAL= 0.42 (F) (INPUT = 0.95)



Structural component only  
DWG# T-2406581

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

RECEIVED  
Per: joshua.nabua

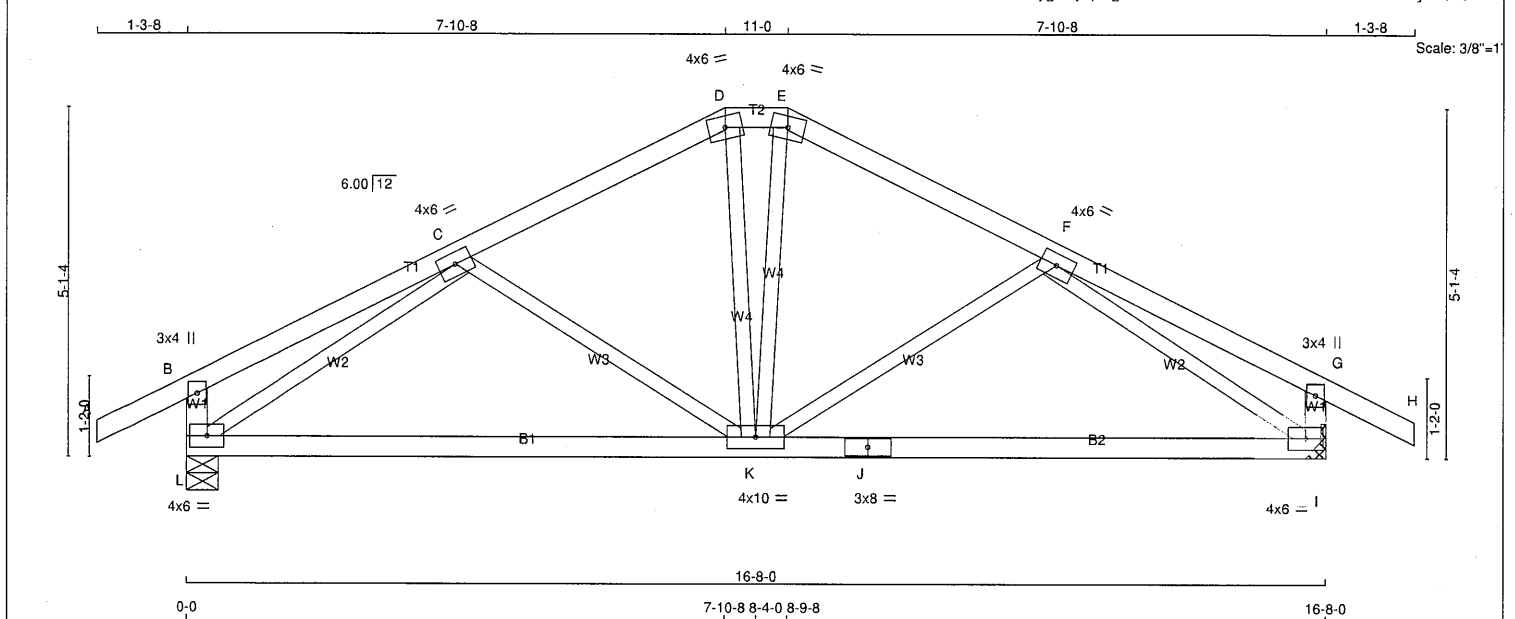


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	T15	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Mar 4 08:03:42 2024 Page 1

ID:1PtZEc03lbzKDC64XoV?RygPuj-qxzgHu3ev6bZd?xldF4GTyPLGx3SVRucZyxd5zeNPF



TOTAL WEIGHT = 68 lb

[M/F]

LUMBER

N. L. G. A. RULES

CHORDS SIZE

LUMBER

DESCR.

A - D

2x4

DRY

No.2

SPF

D - E

2x4

DRY

No.2

SPF

E - H

2x4

DRY

No.2

SPF

L - B

2x4

DRY

No.2

SPF

I - G

2x4

DRY

No.2

SPF

L - J

2x4

DRY

No.2

SPF

J - I

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT

TYPE

PLATES

W

LEN

Y

X

B

TMV+p

MT20

3.0

4.0

C

TMVW-t

MT20

4.0

6.0

D

TTW-m

MT20

4.0

6.0

E

TTW-m

MT20

4.0

6.0

F

TMVW-t

MT20

4.0

6.0

G

TMV+p

MT20

3.0

4.0

I

BMVW1-t

MT20

4.0

6.0

J

BS-t

MT20

3.0

8.0

K

BMVWWV-t

MT20

4.0

10.0

L

BMVW1-t

MT20

4.0

6.0

NOTES-

(1)

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

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

BEARINGS

FACTORED

GROSS REACTION

GROSS REACTION

INPUT

REQD

JT

VERT

HORZ

DOWN

HORZ

UPLIFT

IN-SX

IN-SX

L

1043

0

1043

0

0

5-8

1-8

I

1043

0

1043

0

0

MECHANICAL

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

UNFACTORED REACTIONS

1ST LCASE

MAX./MIN. COMPONENT REACTIONS

JT

COMBINED

SNOW

LIVE

PERM.LIVE

WIND

DEAD

SOIL

L

735

496 / 0

0 / 0

0 / 0

0 / 0

240 / 0

0 / 0

I

735

496 / 0

0 / 0

0 / 0

0 / 0

240 / 0

0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.24 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)

C H O R D S

MAX. FACTORED

FACTORED

W E B S

MAX. FACTORED

MEMB.

FORCE

VERT. LOAD

LC1

MAX.

MAX.

MEMB.

FORCE

MAX.

(LBS)

(PLF)

CSI (LC)

UNBRAC

(LBS)

CSI (LC)

FR-TO

FROM

TO

LENGTH

FR-TO

A-B

0 / 28

-91.8

-91.8

0.12 (1)

10.00

C-K

-235 / 0

0.11 (1)

B-C

0 / 18

-91.8

-91.8

0.22 (1)

10.00

K-F

-235 / 0

0.11 (1)

C-D

-919 / 0

-91.8

-91.8

0.18 (1)

6.24

L-C

-1233 / 0

0.47 (1)

D-E

-826 / 0

-91.8

-91.8

0.02 (1)

6.25

F-I

-1233 / 0

0.47 (1)

E-F

-919 / 0

-91.8

-91.8

0.18 (1)

6.24

D-K

0 / 224

0.05 (1)

F-G

0 / 18

-91.8

-91.8

0.22 (1)

10.00

K-E

0 / 224

0.05 (1)

G-H

0 / 28

-91.8

-91.8

0.12 (1)

10.00

L-B

-266 / 0

0.0

0.0

0.03 (1)

7.81

I-G

-266 / 0

0.0

0.0

0.03 (1)

7.81

L-K

0 / 1002

-18.5

-18.5

0.45 (4)

10.00

K-J

0 / 1002

-18.5

-18.5

0.45 (4)

10.00

J-I

0 / 1002

-18.5

-18.5

0.45 (4)

10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018 , NBC-2019AE

- PART 9 OF OBC 2012 (2019 AMENDMENT)

- CSA 086-14

- TPIC 2014

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

ALLOWABLE DEFL.(LL)= L/360 (0.56")

CALCULATED VERT. DEFL.(LL) = L/999 (0.03")

ALLOWABLE DEFL.(TL)= L/360 (0.56")

CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TC=0.22/1.00 (F-G:1) , BC=0.45/1.00 (H-K:4) .

WB=0.47/1.00 (F-I:1) , SSI=0.15/1.00 (F-G:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE

GRIP(DRY)

SHEAR (PSI)

SECTION (PLI)

MT20

650

371

1747

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.33 (J) (INPUT = 0.95 )

Structural component only  
DWG# T-2406582

CITY OF RICHMOND HILL  
BUILDING DIVISION

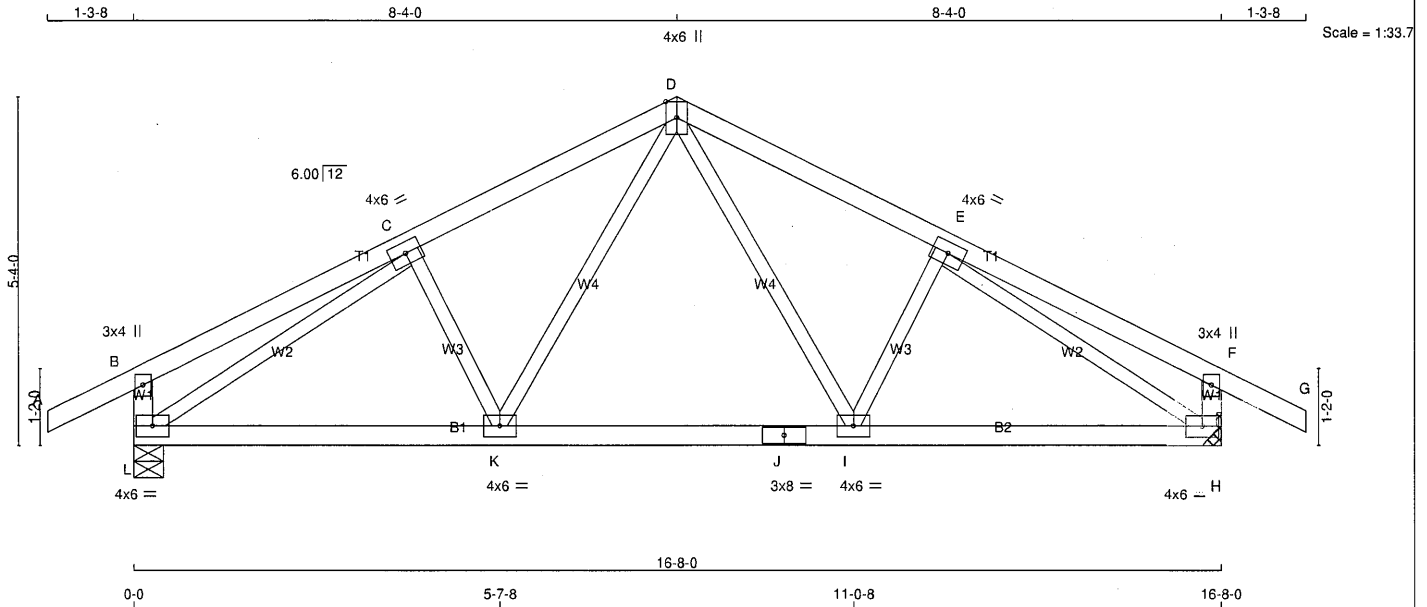
05/01/2024

RECEIVED  
Per: joshua.nabua

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	T16	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Mar 4 08:03:43 2024 Page 1  
ID:1PtZEc03lbzkDC64XoV?RygpUj-J8X3VE4GgQIQF9WxALmJpg4aegKaBxx2rCiU9XzeNPE



TOTAL WEIGHT = 2 X 67 = 134 lb [M][F]

#### LUMBER

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

ALL WEBS 2x3 DRY No.2  
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+P	MT20	4.0	6.0	Edge	
E	TMWW-t	MT20	4.0	6.0		
F	TMV+P	MT20	3.0	4.0		
H	BMVW1-t	MT20	4.0	6.0		
I	BMVW-t	MT20	4.0	6.0		
J	BS-t	MT20	3.0	8.0		
K	BMVW-t	MT20	4.0	6.0		
L	BMVW1-t	MT20	4.0	6.0		

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

#### NOTES (1)

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

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

##### BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REORD BRG
JT	VERT	HORZ	DOWN	HORZ
L	1043	0	1043	0
H	1043	0	1043	0

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

##### UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	735	496 / 0	0 / 0	0 / 0	0 / 0	240 / 0	0 / 0
H	735	496 / 0	0 / 0	0 / 0	0 / 0	240 / 0	0 / 0

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.90 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

##### LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-91.8 -91.8	0.12 (1)	D-I	0 / 359	0.08 (1)	
B-C	0 / 19	-91.8 -91.8	0.25 (1)	I-E	-229 / 0	0.05 (1)	
C-D	-1057 / 0	-91.8 -91.8	0.20 (1)	K-D	0 / 359	0.08 (1)	
D-E	-1057 / 0	-91.8 -91.8	0.20 (1)	C-K	-229 / 0	0.05 (1)	
E-F	0 / 19	-91.8 -91.8	0.25 (1)	L-C	-1260 / 0	0.52 (1)	
F-G	0 / 28	-91.8 -91.8	0.12 (1)	E-H	-1260 / 0	0.52 (1)	
L-B	-273 / 0	0.0 0.0	0.03 (1)				
H-F	-273 / 0	0.0 0.0	0.03 (1)				
L-K	0 / 1030	-18.5 -18.5	0.24 (1)				
K-J	0 / 758	-18.5 -18.5	0.19 (4)				
J-I	0 / 758	-18.5 -18.5	0.19 (4)				
I-H	0 / 1030	-18.5 -18.5	0.24 (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, NBCC 2015

##### THIS DESIGN COMPLIES WITH:

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

(55 % OF 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 (0.56")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")  
ALLOWABLE DEFL.(TL)= L/360 (0.56")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.25/1.00 (E-F:1), BC=0.24/1.00 (H-I:1),  
WB=0.52/1.00 (E-H:1), CSI=0.16/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.73 (E) (INPUT = 0.90 )  
JSI METAL= 0.28 (E) (INPUT = 0.95 )



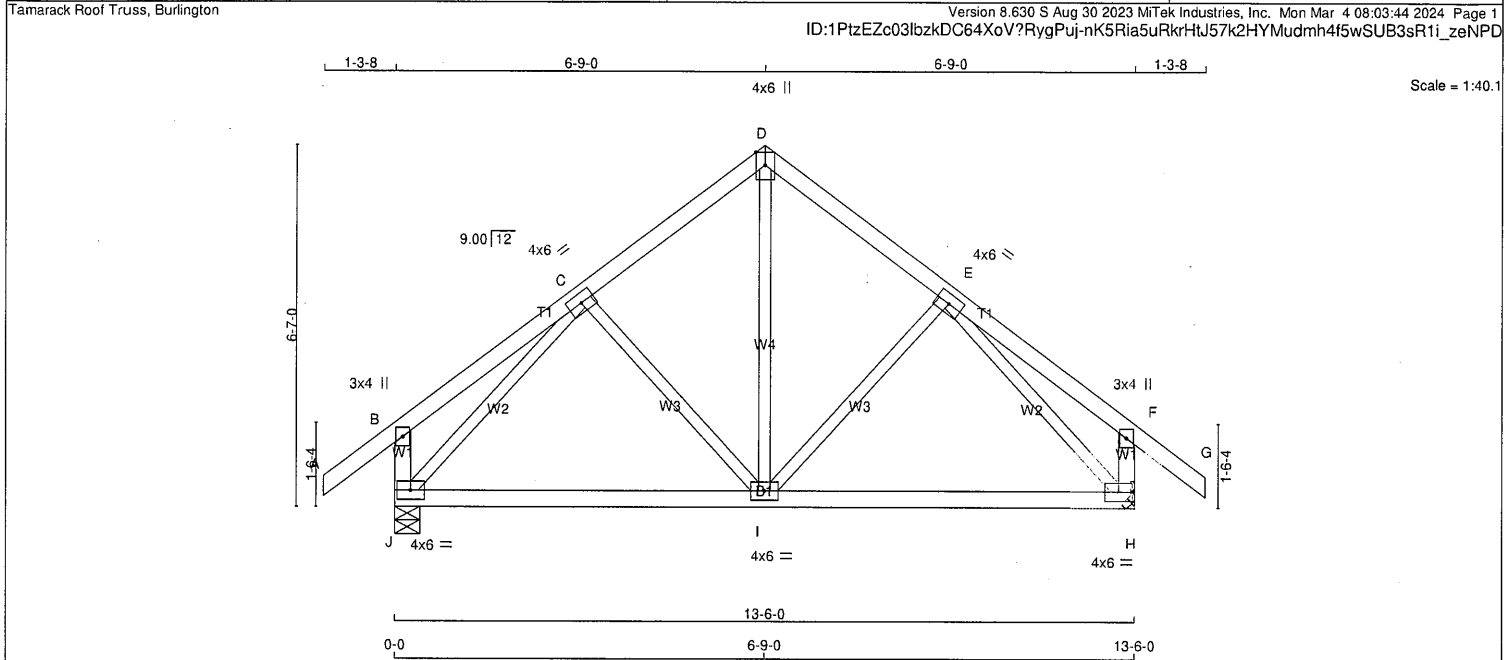
Structural component only  
DWG# T-2406583

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

RECEIVED  
Per: joshua.nabua

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	T17	4	1	TRUSS DESC.		



<b>LUMBER</b> 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.				<b>DESIGN CRITERIA</b> 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 <b>SPACING = 24.0 IN./C</b> THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF BCBC 2018, NBC-2019AE - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 (55 % OF 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 (0.45") CALCULATED VERT. DEFL.(LL) = L/999 (0.01") ALLOWABLE DEFL.(TL)= L/360 (0.45") CALCULATED VERT. DEFL.(TL) = L/999 (0.05") CSI: TC=0.16/1.00 (E-F:1), BC=0.28/1.00 (I-J:4), WB=0.31/1.00 (E-H:1), SSI=0.12/1.00 (E-F:1) DOL LUMBER=1.00 NAIL=1.00 LBS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10 COMPANION LIVE LOAD FACTOR = 1.00 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT. <b>NAIL VALUES</b> PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.52 (E) (INPUT = 0.90 ) JSI METAL= 0.17 (E) (INPUT = 0.95 )				<b>BEARINGS</b> FACTORED MAXIMUM FACTORED INPUT REQRD GROSS REACTION GROSS REACTION BRG BRG JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX J 871 0 871 0 0 5-8 1-8 H 871 0 871 0 0 MECHANICAL A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT H. MINIMUM BEARING LENGTH AT JOINT H = 1-8. <b>UNFACTORED REACTIONS</b> 1ST LCASE MAX /MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL J 613 416 / 0 0 / 0 0 / 0 0 / 0 197 / 0 0 / 0 H 613 416 / 0 0 / 0 0 / 0 0 / 0 197 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) J <b>BRACING</b> 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. <b>LOADING</b> TOTAL LOAD CASES: (4) CHORDS WEBS MAX. FACTORED MAX. FACTORED MEMB. FORCE VERT. LOAD LC1 MAX MAX. MEMB. FORCE MAX (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC) FR-TO FROM TO A-B 0 / 38 -91.8 -91.8 0.12 (1) 10.00 I-D 0 / 387 0.09 (1) B-C 0 / 21 -91.8 -91.8 0.16 (1) 10.00 I-E -157 / 0 0.07 (1) C-D -543 / 0 -91.8 -91.8 0.13 (1) 6.25 C-I -157 / 0 0.07 (1) D-E -543 / 0 -91.8 -91.8 0.13 (1) 6.25 J-C -778 / 0 0.31 (1) E-F 0 / 21 -91.8 -91.8 0.16 (1) 10.00 E-H -778 / 0 0.31 (1) F-G 0 / 38 -91.8 -91.8 0.12 (1) 10.00 J-B -247 / 0 0.0 0.0 0.03 (1) 7.81 H-F -247 / 0 0.0 0.0 0.03 (1) 7.81 J-I 0 / 522 -18.5 -18.5 0.28 (4) 10.00 I-H 0 / 522 -18.5 -18.5 0.28 (4) 10.00			
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03-04-24

H. J. G. ALVES

100009024

PROVINCE OF ONTARIO

Structural component only

DWG# T-2406584

CITY OF RICHMOND HILL

BUILDING DIVISION

05/01/2024

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Per: joshua.nabua

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Mar 4 08:03:45 2024 Page 1  
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GABLE STUDS SPACED AT 2-0-0 OC.

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

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

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

## DESIGN CRITERIA

SPECIFIED LOADS:			
TOP	CH.	LL =	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 2015

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

DESIGN ASSUMPTIONS  
-OVERHANG NOT TO BE ALTERED OR CUT OFF

(55 % OF 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 (J-K:1) , BC=0.02/1.00 (M-N:4) ,  
WB=0.11/1.00 (F-P:1) , SSI=0.08/1.00 (I-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.16 (J) (INPUT = 0.90 )  
JSI METAL= 0.11 (E) (INPUT = 0.95 )

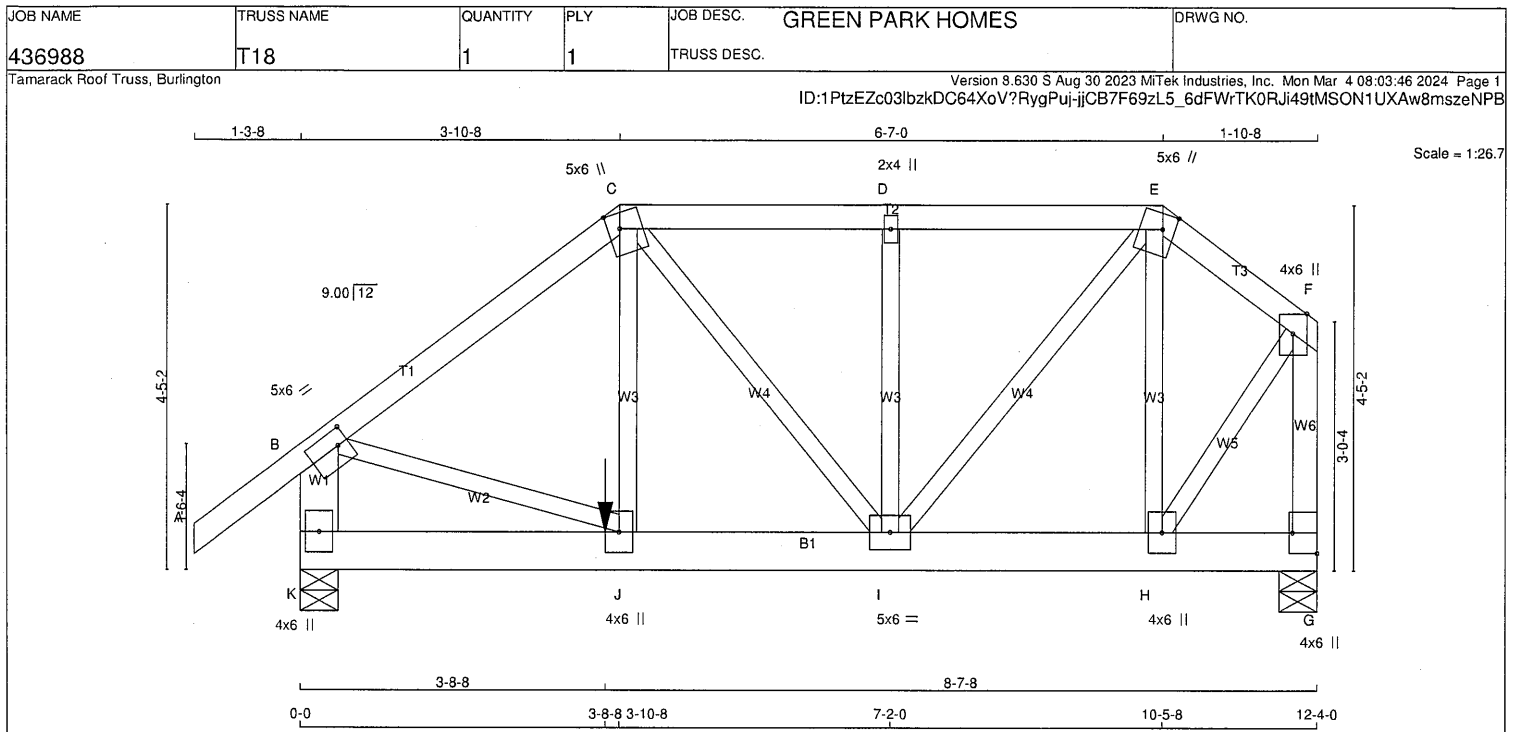


Structural component only  
DWG# T-2406585

**CITY OF RICHMOND HILL  
BUILDING DIVISION**

05/01/2024

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Per: joshua.nabua



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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	6.0	2.25	1.50
C	TTWW+m	MT20	5.0	6.0	2.25	1.75
D	TMW+w	MT20	2.0	4.0		
E	TTWW+m	MT20	5.0	6.0	2.25	1.75
F	TMVW+p	MT20	4.0	6.0	Edge	
G	BMV1+p	MT20	4.0	6.0	3.00	Edge
H	BMWW+t	MT20	4.0	6.0		
I	BMWWW-t	MT20	5.0	6.0		
J	BMWW+t	MT20	4.0	6.0		
K	BMV1+p	MT20	4.0	6.0		

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

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	HORZ	GROSS REACTION	DOWN	HORZ	UPLIFT	BRG IN-SX	BRG IN-SX	
K	1329	0	1329	0	0	5-8	1-8		
G	929	0	929	0	0	5-8	1-8		

#### UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
K	933	649 / 0	0 / 0	0 / 0	0 / 0	285 / 0	0 / 0	
G	655	441 / 0	0 / 0	0 / 0	0 / 0	214 / 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 = 5.47 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PL)	MAX. LC1 (LC)	MEMB.	MAX. FORCE (LBS)	MAX. LC1 (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 38	-91.8	-91.8 0.14 (1)	10.00	J-C	0 / 556	0.14 (1)
B-C	-1186 / 0	-91.8	-91.8 0.29 (1)	5.47	C-I	-182 / 0	0.08 (1)
C-D	-846 / 0	-91.8	-91.8 0.18 (1)	6.25	I-D	-360 / 0	0.10 (1)
D-E	-846 / 0	-91.8	-91.8 0.18 (1)	6.25	I-E	0 / 719	0.18 (1)
E-F	-507 / 0	-91.8	-91.8 0.06 (1)	6.25	H-E	-459 / 0	0.13 (1)
K-B	-1283 / 0	0.0	0.0 0.09 (1)	7.81	B-J	0 / 983	0.24 (1)
G-F	-924 / 0	0.0	0.0 0.15 (1)	7.81	H-F	0 / 667	0.17 (1)
K-J	0 / 0	-18.5	-18.5 0.04 (1)	10.00			
J-I	0 / 961	-18.5	-18.5 0.16 (1)	10.00			
I-H	0 / 392	-18.5	-18.5 0.07 (1)	10.00			
H-G	0 / 0	-18.5	-18.5 0.02 (1)	10.00			

#### SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
J	3-8-8	-540	-540	---	FRONT	VERT	TOTAL	---	C1

#### CONNECTION REQUIREMENTS

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

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

##### SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) =  $L/360$  (0.41")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.02")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.41")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.03")

CSI: TC=0.29/1.00 (B-C:1), BC=0.16/1.00 (I-J:1), WB=0.24/1.00 (B-J:1), SSI=0.16/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

#### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.79 (E) (INPUT = 0.90)  
JSI METAL= 0.43 (J) (INPUT = 0.95)



Structural component only  
DWG# T-2406586

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

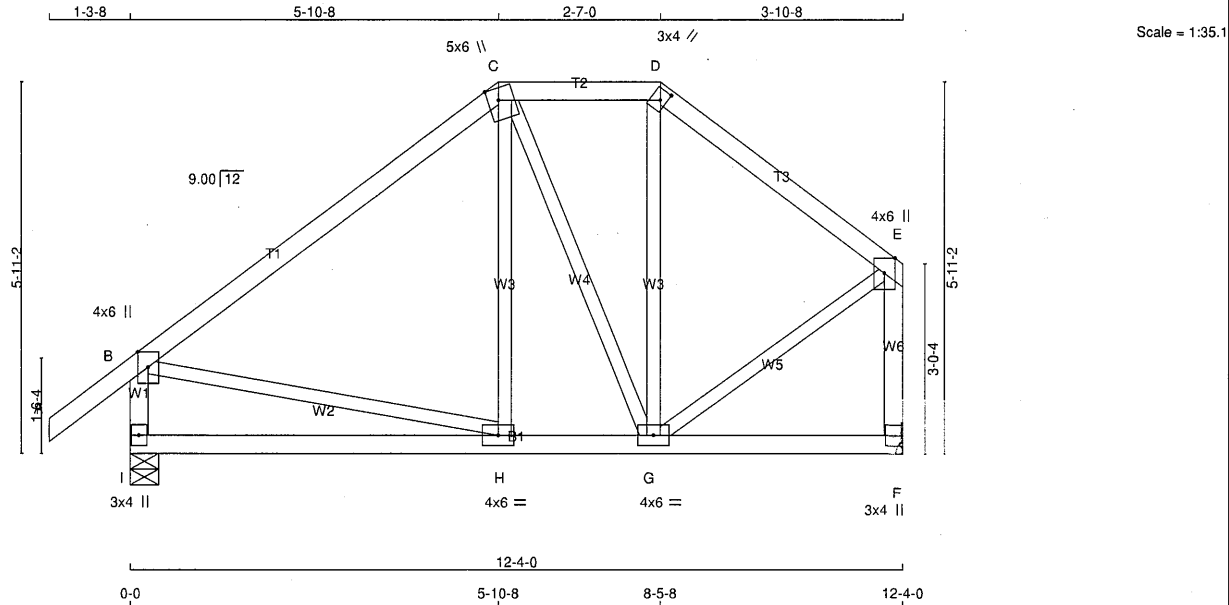
RECEIVED  
Per: joshua.nabua



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	T19	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 Mitek Industries, Inc. Mon Mar 4 08:03:47 2024 Page 1  
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TOTAL WEIGHT = 59 lb  
[M][F]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	6.0	Edge
C	TTWW+m	MT20	5.0	6.0	Edge 2.00
D	TTW+h	MT20	3.0	4.0	2.00 1.25
E	TMVW+p	MT20	4.0	6.0	Edge
F	BMV1+p	MT20	3.0	4.0	
G	BMVWW-t	MT20	4.0	6.0	
H	BMVWW-t	MT20	4.0	6.0	
I	BMV1+p	MT20	3.0	4.0	

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

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
JT	VERT	GROSS	REACTION	GROSS	REACTION	BRG	BRG	IN-SX	IN-SX
I	806	0	806	0	0	5-8	1-8		
F	680	0	680	0	0	MECHANICAL			

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

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	COMBINED	SNOW	LIVE	PERM. LIVE
I	568	386 / 0	0 / 0	0 / 0	0 / 0	182 / 0	0 / 0				
F	481	316 / 0	0 / 0	0 / 0	0 / 0	165 / 0	0 / 0				

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		W E B S		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 38	-91.8	-91.8 0.12 (1)	H-C	0 / 89	0.03 (4)	
B-C	-479 / 0	-91.8	-91.8 0.41 (1)	C-G	-139 / 0	0.09 (1)	
C-D	-327 / 0	-91.8	-91.8 0.08 (1)	G-D	-49 / 31	0.03 (1)	
D-E	-410 / 0	-91.8	-91.8 0.18 (1)	B-H	0 / 390	0.09 (1)	
I-B	-760 / 0	0.0	0.0 0.08 (1)	G-E	0 / 396	0.09 (1)	
F-E	-647 / 0	0.0	0.0 0.11 (1)				
I-H	0 / 0	-18.5	-18.5 0.14 (4)				
H-G	0 / 383	-18.5	-18.5 0.17 (4)				
G-F	0 / 0	-18.5	-18.5 0.07 (4)				

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

(55 % OF 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 (0.41")  
CALCULATED VERT. DEFL.(LL)= L/999 (0.01")  
ALLOWABLE DEFL.(TL)= L/360 (0.41")  
CALCULATED VERT. DEFL.(TL)= L/999 (0.04")

CSI: TC=0.41/1.00 (B-C:1) , BC=0.17/1.00 (G-H:4) , WB=0.09/1.00 (C-G:1) , SSI=0.17/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.47 (G) (INPUT = 0.90 )  
JSI METAL= 0.32 (B) (INPUT = 0.95 )



Structural component only  
DWG# T-2406587

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

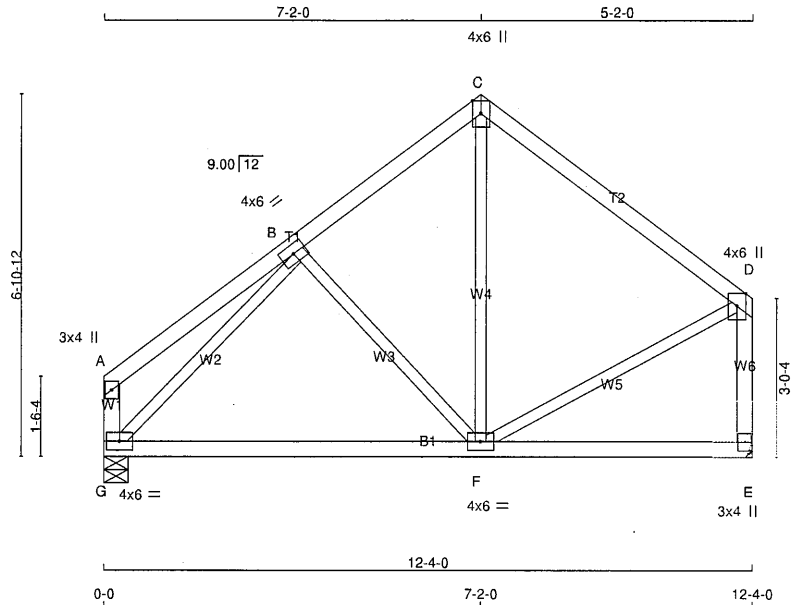
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Per: joshua.nabua

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
436988	T20	1	1	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

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ID:1PtZEc03lbzkDC64XoV?RygPuj-f5KyYx8PVyLiMwPuzuMUWknPJh1VsFan\_UPFrzeNP9



Scale = 1:41.9

TOTAL WEIGHT = 54 lb

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

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

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
E	680	0	680	0	0	MECHANICAL
G	680	0	680	0	0	5-8 1-8

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

#### UNFACTORED REACTIONS

JT	1ST CASE COMBINED		MAX /MIN. COMPONENT REACTIONS		PERM. LIVE	WIND	DEAD	SOIL
	SNOW	LIVE	SNOW	LIVE				
E	481	316 / 0	0 / 0	0 / 0	0 / 0	0 / 0	165 / 0	0 / 0
G	481	316 / 0	0 / 0	0 / 0	0 / 0	0 / 0	165 / 0	0 / 0

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		MEMB.	WEBS		MEMB.	FACTORED	
	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (PLF)	LC1 MAX (LC)		FORCE (LBS)	VERT. LOAD (PLF)		FORCE (LBS)	VERT. LOAD (PLF)
FR-TO					FR-TO			FR-TO		
A-B	0 / 23	-91.8	-91.8	0.19 (1)	10.00	B-F	-202 / 0	0.09 (1)		
B-C	-428 / 0	-91.8	-91.8	0.15 (1)	6.25	F-C	0 / 122	0.04 (4)		
C-D	-405 / 0	-91.8	-91.8	0.32 (1)	6.25	G-B	-682 / 0	0.30 (1)		
G-A	-125 / 0	0.0	0.0	0.01 (1)	7.81	F-D	0 / 366	0.08 (1)		
E-D	-649 / 0	0.0	0.0	0.11 (1)	7.81					
G-F	0 / 462	-18.5	-18.5	0.25 (4)	10.00					
F-E	0 / 0	-18.5	-18.5	0.22 (4)	10.00					

#### DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.41")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
ALLOWABLE DEFL.(TL)= L/360 (0.41")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.32/1.00 (C-D:1), BC=0.25/1.00 (F-G:4),  
WB=0.30/1.00 (B-G:1), SSI=0.15/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.45 (F) (INPUT = 0.90 )  
JSI METAL= 0.24 (D) (INPUT = 0.95 )



Structural component only  
DWG# T-2406588

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

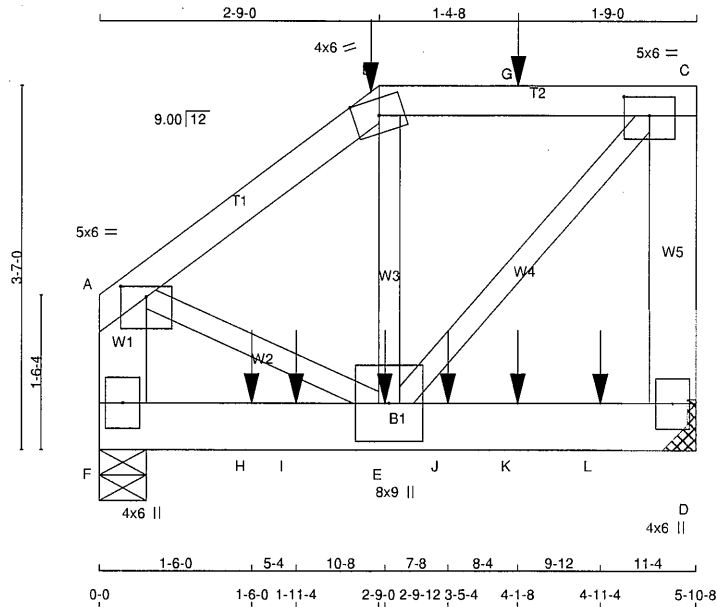
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Per: joshua.nabua



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	T21	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:1PtZEc03lbzkDC64XoV?RygPuj-7luKIh81GGTZz4\_5Wctj3xKcR5H6bguwD89oNBzeNP8



Scale = 1:21.7

TOTAL WEIGHT = 2 X 33 = 65 lb

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

ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - B 1 12		SIDE(61.0)
B - C 1 12		SIDE(61.0)
C - D 2 12		TOP
F - A 2 12		TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F - D 2 12		SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1 6		

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
D	3849	0	3849	0	0
F	3907	0	3907	0	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 2-1.

#### UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
D	2714	1826 / 0	0 / 0	0 / 0	0 / 0	0 / 0	887 / 0	0 / 0
F	2754	1859 / 0	0 / 0	0 / 0	0 / 0	0 / 0	895 / 0	0 / 0

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.31 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (7)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	-2911 / 0	E-B	0 / 1370
B-G	-2366 / 0	E-C	0 / 3452
C-C	-2366 / 0	A-E	0 / 2491
D-C	-2658 / 0		
F-A	-2785 / 0		
F-H	0 / 0		
H-I	0 / 0		
I-E	0 / 0		
E-J	0 / 0		
J-K	0 / 0		
K-L	0 / 0		
L-D	0 / 0		

SPECIFIED CONCENTRATED LOADS (LBS)		FACE	DIR.	TYPE	HEEL	CONN.
JT	LOC.	LC1	MAX-	MAX+		
B	2-9-0	-59	-59	99	BACK	VERT
E	2-9-12	-6	-6	---	BACK	VERT
G	4-1-8	-24	-24	---	BACK	VERT
H	1-6-0	-2335	-2335	---	FRONT	VERT
I	1-11-4	-6	-6	---	BACK	VERT
J	3-5-4	-1287	-1287	---	FRONT	VERT
K	4-1-8	-6	-6	---	BACK	VERT
L	4-11-4	-1288	-1288	---	FRONT	VERT

#### CONNECTION REQUIREMENTS

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

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.16/1.00 (C-D:1) , BC=0.61/1.00 (E-F:1) , WB=0.43/1.00 (C-E:1) , SSI=0.84/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

#### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.80 (E) (INPUT = 0.90 )  
JSI METAL= 0.33 (C) (INPUT = 0.95 )



Structural component only  
DWG# T-2406589

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

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CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
436988	T21	1	2	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

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**PLATES (table is in inches)**

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-p	MT20	5.0	6.0	1.25	3.00
B	TTW-m	MT20	4.0	6.0	Edge	
C	TMVW-l	MT20	5.0	6.0	2.25	3.00
D	BMV1+p	MT20	4.0	6.0		
E	BMWWW+t	MT20	8.0	9.0		
F	BMV1+p	MT20	4.0	6.0		

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

**NOTES- (1)**

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



Structural component only  
DWG# T-2406589

CITY OF RICHMOND HILL  
BUILDING DIVISION

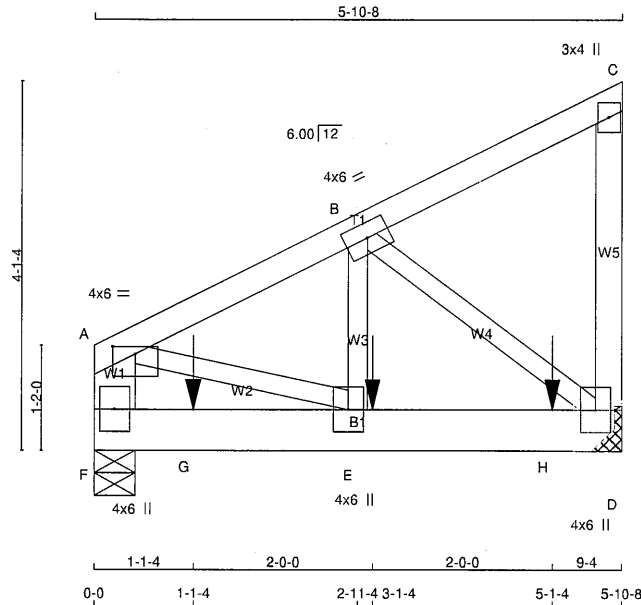
05/01/2024

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Per: joshua.nabua

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	T22	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:24.5

TOTAL WEIGHT = 2 X 29 = 58 lb

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

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
F-A 2	12	TOP
A-C 1	12	TOP
C-D 1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F-D 2	12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
B-E 1	6	SIDE(84.3)
2x3 1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-p	MT20	4.0	6.0	1.00	3.00
B	TMVW-t	MT20	4.0	6.0		
C	TMV-p	MT20	3.0	4.0		

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REORD BRG
JT	VERT	HORZ	DOWN	HORZ
F	1803	0	1803	0
D	1921	0	1921	0

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

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	SNOW	MAX /MIN	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	1269	866 / 0	0 / 0	0 / 0	0 / 0	0 / 0	403 / 0	0 / 0
D	1352	922 / 0	0 / 0	0 / 0	0 / 0	0 / 0	430 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
F-A	-1217 / 0	A-E	0 / 1496
A-B	-1607 / 0	E-B	0 / 1514
B-C	-10 / 0	B-D	-1820 / 0
D-C	-113 / 0		
F-G	0 / 0		
G-E	0 / 0		
E-H	0 / 1446		
H-D	0 / 1446		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	3-1-4	-721	-721	---	BACK	VERT	TOTAL	---	C1
G	1-1-4	-721	-721	---	BACK	VERT	TOTAL	---	C1
H	5-1-4	-722	-722	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.06/1.00 (A-B:1), BC=0.29/1.00 (D-E:1), WB=0.22/1.00 (B-D:1), SSI=0.23/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.69 (D) (INPUT = 0.90 )  
JSI METAL= 0.33 (D) (INPUT = 0.95 )



Structural component only  
DWG# T-2406590

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
436988	T22	1	2	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

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PLATES (table is in inches)

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

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



Structural component only  
DWG# T-2406590

CITY OF RICHMOND HILL  
BUILDING DIVISION

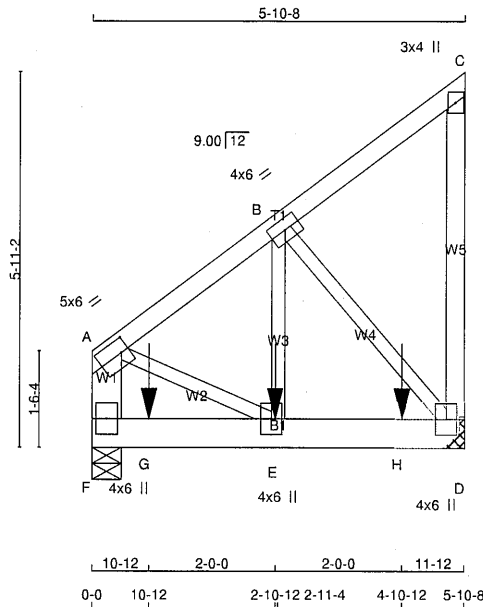
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RECEIVED  
Per: joshua.nabua

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	T23	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Mar 4 08:03:51 2024 Page 1  
ID:1PtZEc03lbzkDC64XoV?RygPuj-4g04AzAHotjHDO7Te0vB8MPzRu3P3dvDgSevR4zeNP6



TOTAL WEIGHT = 2 X 35 = 69 lb

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

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
F - A	2 12	TOP
A - C	1 12	TOP
C - D	1 12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F - D	2 12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
B - E	1 6	SIDE(39.2)
2x3	1 6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

#### PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	5.0	6.0	2.50	1.50
B	TMVW-t	MT20	4.0	6.0		
C	TMV+p	MT20	3.0	4.0		

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

##### BEARINGS

JT	VERT	HORZ	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
F	1615	0	1615	0	0	1-8
D	1591	0	1591	0	0	MECHANICAL

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

##### UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	MAX./MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	1136	780 / 0	0 / 0	0 / 0	0 / 0	356 / 0	0 / 0
D	1119	768 / 0	0 / 0	0 / 0	0 / 0	350 / 0	0 / 0

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
F - A	-1074 / 0	0.0 0.0	0.04 (1)	7.81	A - E	0 / 917	0.11 (1)
A - B	-1055 / 0	-91.8 -91.8	0.07 (1)	6.25	E - B	0 / 1284	0.16 (1)
B - C	-17 / 0	-91.8 -91.8	0.06 (1)	6.25	B - D	-1293 / 0	0.20 (1)
D - C	-106 / 0	0.0 0.0	0.03 (1)	7.81			
F - G	0 / 0	-18.5 -18.5	0.18 (1)	10.00			
G - E	0 / 0	-18.5 -18.5	0.18 (1)	10.00			
E - H	0 / 858	-18.5 -18.5	0.24 (1)	10.00			
H - D	0 / 858	-18.5 -18.5	0.24 (1)	10.00			

##### SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	2-10-12	-599	-599	---	FRONT	VERT	TOTAL	---	C1
G	10-12	-599	-599	---	FRONT	VERT	TOTAL	---	C1
H	4-10-12	-599	-599	---	FRONT	VERT	TOTAL	---	C1

##### CONNECTION REQUIREMENTS

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

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

TOP CH.	LL = 25.6 PSF
	DL = 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 2015

##### THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.07/1.00 (A-B:1) , BC=0.24/1.00 (D-E:1) , WB=0.20/1.00 (B-D:1) , SSI=0.18/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.56 (B) (INPUT = 0.90 )  
JSI METAL= 0.19 (D) (INPUT = 0.95 )



Structural component only  
DWG# T-2406591

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

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CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
436988	T23	1	2	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

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**PLATES (table is in inches)**

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

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



Structural component only  
 DWG# T-2406591

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

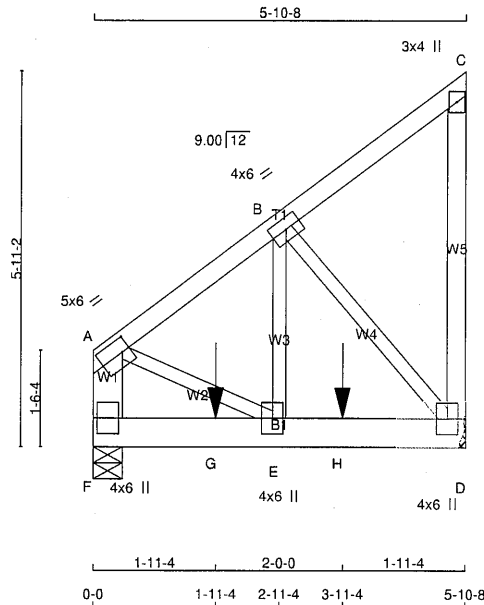
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Per: joshua.nabua

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	T23Z	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:34.7

TOTAL WEIGHT = 2 X 35 = 69 lb

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

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

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

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

#### PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	5.0	6.0	2.50	1.50
B	TMVW-t	MT20	4.0	6.0		
C	TMV+p	MT20	3.0	4.0		
D	BMVW1+p	MT20	4.0	6.0		

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

##### BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REORD BRG
F	985 0	985 0	5-8	1-8
D	985 0	985 0	MECHANICAL	

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

##### UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	695	466 / 0	0 / 0	0 / 0	0 / 0	0 / 0	229 / 0	0 / 0
D	695	466 / 0	0 / 0	0 / 0	0 / 0	0 / 0	229 / 0	0 / 0

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX	MAX. UNBRACED LENGTH	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO							FR-TO			
F-A	-826 / 0	0.0	0.0	0.03 (1)	7.81	A-E	0 / 684	0.08 (1)		
A-B	-782 / 0	-91.8	-91.8	0.07 (1)	6.25	E-B	0 / 872	0.11 (1)		
B-C	-18 / 0	-91.8	-91.8	0.07 (1)	6.25	B-D	-964 / 0	0.15 (1)		
D-C	-105 / 0	0.0	0.0	0.03 (1)	7.81					
F-G	0 / 0	-18.5	-18.5	0.10 (1)	10.00					
G-E	0 / 0	-18.5	-18.5	0.10 (1)	10.00					
E-H	0 / 640	-18.5	-18.5	0.14 (1)	10.00					
H-D	0 / 640	-18.5	-18.5	0.14 (1)	10.00					

##### SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	1-11-4	-466	-466	---	BACK	VERT	TOTAL	---	C1
H	3-11-4	-466	-466	---	BACK	VERT	TOTAL	---	C1

##### CONNECTION REQUIREMENTS

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

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

##### SPACING = 24.0 IN. C/C

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

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

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

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

CSI: TC=0.07/1.00 (A-B:1), BC=0.14/1.00 (D-E:1), WB=0.15/1.00 (B-D:1), SSI=0.18/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.40 (E) (INPUT = 0.90)  
JSI METAL= 0.14 (D) (INPUT = 0.95)



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DWG# T-2406592

CITY OF RICHMOND HILL  
BUILDING DIVISION

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CONTINUED ON PAGE 2



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
436988	T23Z	1	2	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

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**PLATES (table is in inches)**

JT	TYPE	PLATES	W	LEN	Y	X
E	BMWV+t	MT20	4.0	6.0		
F	BMV1+p	MT20	4.0	6.0		

**NOTES-** (1)

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



Structural component only  
DWG# T-2406592

CITY OF RICHMOND HILL  
BUILDING DIVISION

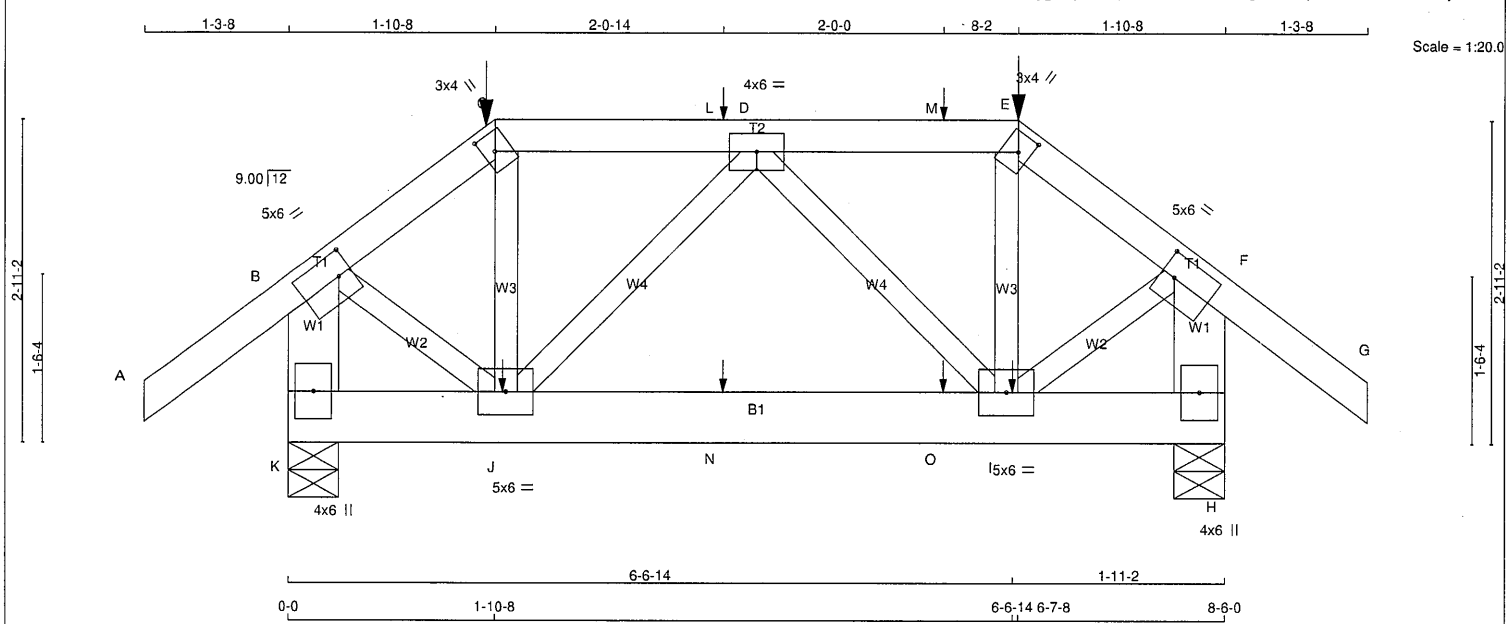
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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	T24	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 45 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
E - G	2x4	DRY	No.2	SPF
K - B	2x6	DRY	No.2	SPF
H - F	2x6	DRY	No.2	SPF
K - 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	TMW-t	MT20	5.0	6.0	2.50	1.50
C	TTW-h	MT20	3.0	4.0	2.00	1.25
D	TMW-t	MT20	4.0	6.0		
E	TTW-h	MT20	3.0	4.0	2.00	1.25
F	TMW-t	MT20	5.0	6.0	2.50	1.50
H	BMV1-p	MT20	4.0	6.0		
I	BMWW-t	MT20	5.0	6.0		
J	BMWW-t	MT20	5.0	6.0		
K	BMV1-p	MT20	4.0	6.0		

NOTES- (1)

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

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
K	665	0	665	0
H	665	0	665	0

UNFACTORED REACTIONS

JT	1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE	PERM.LIVE
K	467	327 / 0	0 / 0	0 / 0
H	467	327 / 0	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) K, 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: (7)

MEMB.	CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX.	MEMB.	WEBS	MAX. FACTORED
FR-TO		FORCE (LBS)	VERT. LOAD (PLF)	CSI (LC)	UNBRAC	LENGTH	FR-TO		FORCE (LBS)	MAX
A-B	0 / 38	-91.8	-91.8	0.14 (1)	10.00	J-C	0 / 58	0.02 (4)		
B-C	-402 / 0	-91.8	-91.8	0.13 (1)	6.25	J-D	-175 / 0	0.04 (1)		
C-L	-299 / 0	-91.8	-91.8	0.09 (1)	6.25	D-I	-175 / 0	0.04 (1)		
L-D	-299 / 0	-91.8	-91.8	0.09 (1)	6.25	I-E	0 / 99	0.02 (5)		
D-M	-299 / 0	-91.8	-91.8	0.09 (1)	6.25	B-J	0 / 341	0.08 (1)		
M-E	-299 / 0	-91.8	-91.8	0.09 (1)	6.25	I-F	0 / 341	0.08 (1)		
E-F	-402 / 0	-91.8	-91.8	0.13 (1)	6.25					
F-G	0 / 38	-91.8	-91.8	0.14 (1)	10.00					
K-B	-652 / 0	0.0	0.0	0.05 (1)	7.81					
H-F	-652 / 0	0.0	0.0	0.05 (1)	7.81					
K-J	0 / 0	-18.5	-18.5	0.03 (4)	10.00					
J-N	0 / 416	-18.5	-18.5	0.08 (1)	10.00					
N-O	0 / 416	-18.5	-18.5	0.08 (1)	10.00					
O-I	0 / 416	-18.5	-18.5	0.08 (1)	10.00					
I-H	0 / 0	-18.5	-18.5	0.03 (4)	10.00					

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	1-10-8	-48	-48	77	BACK	VERT	TOTAL	---	C1
E	6-7-8	-48	-48	77	BACK	VERT	TOTAL	---	C1
I	6-6-14	1	1	---	BACK	VERT	TOTAL	---	C1
J	1-11-6	1	1	---	BACK	VERT	TOTAL	---	C1
L	3-11-6	1	1	77	BACK	VERT	TOTAL	---	C1
M	5-11-6	1	1	69	BACK	VERT	TOTAL	---	C1
N	3-11-6	1	1	---	BACK	VERT	TOTAL	---	C1
O	5-11-6	1	1	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.28")  
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")  
ALLOWABLE DEFL.(TL)= L/360 (0.28")  
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.14/1.00 (A-B:1), BC=0.08/1.00 (I-J:1), WB=0.08/1.00 (B-J:1), SSI=0.11/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 650 371 1747 798 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

ISI GRIP= 0.49 (C) (INPUT = 0.90)

ISI METAL= 0.12 (F) (INPUT = 0.95)

OFFICE OF RICHMOND HILL BUILDING DIVISION

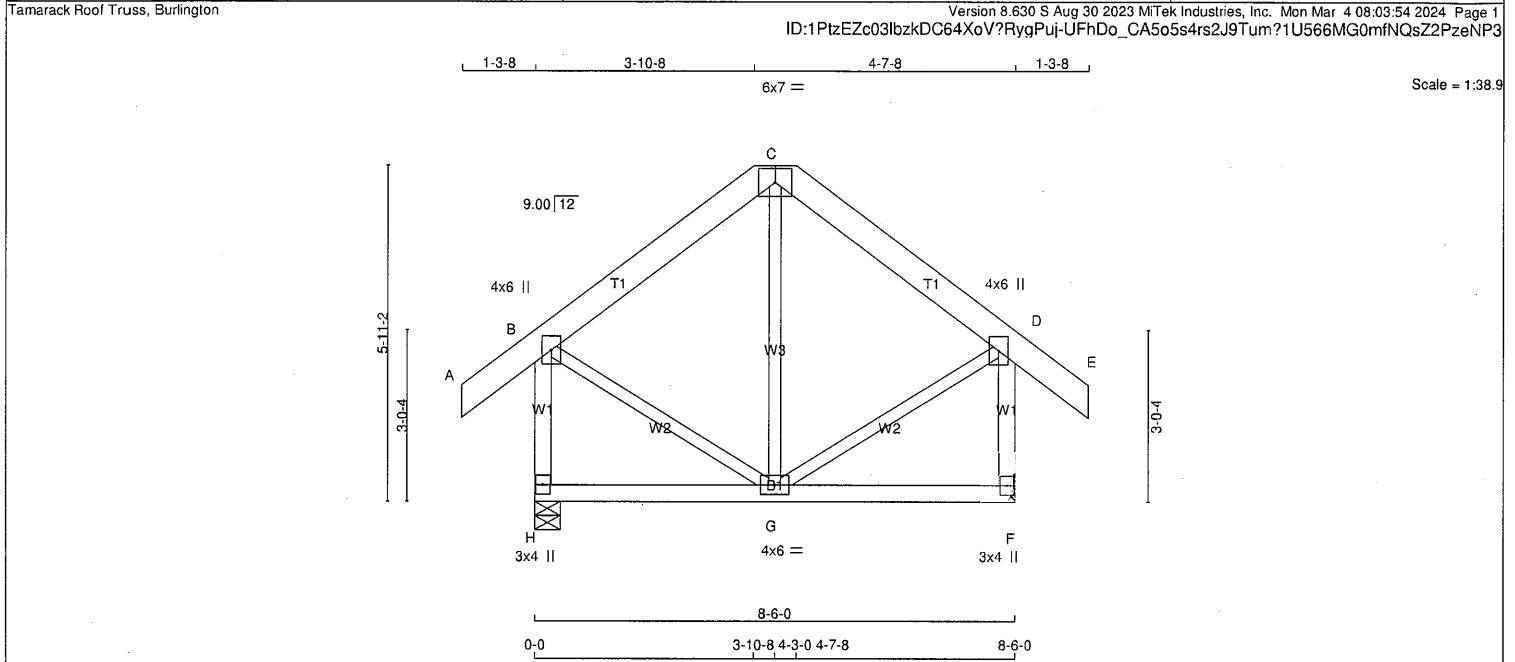
05/01/2024

RECEIVED  
Per: joshua.nabua



Structural component only  
DWG# T-2406593

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
436988	T25	1	1	GREEN PARK HOMES	



<b>LUMBER</b> N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - C 2x6 DRY No.2 SPF C - E 2x6 DRY No.2 SPF H - B 2x4 DRY No.2 SPF F - D 2x4 DRY No.2 SPF H - F 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT  DRY: SEASONED LUMBER.				<b>PLATES (table is in inches)</b> JT TYPE PLATES W LEN Y X B TMWV+p MT20 4.0 6.0 C TTW+p MT20 6.0 7.0 D TMWV+p MT20 4.0 6.0 F BMV1+p MT20 3.0 4.0 G BMWWV-t MT20 4.0 6.0 H BMV1+p MT20 3.0 4.0			
<b>NOTES:</b> (1) 1) Lateral braces to be a minimum of 2X4 SPF #2.				<b>DESIGN CRITERIA</b>  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  <b>SPACING = 24.0 IN. C/C</b>  THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015  THIS DESIGN COMPLIES WITH: - PART 9 OF BCBC 2018, NBC-2019AE - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014  (55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD  ALLOWABLE DEFL.(LL)= L/360 (0.28") CALCULATED VERT. DEFL.(LL) = L/999 (0.00") ALLOWABLE DEFL.(TL)= L/360 (0.28") CALCULATED VERT. DEFL.(TL) = L/999 (0.01")  CSI: TC=0.10/1.00 (B-C:1) , BC=0.09/1.00 (G-H:4) , WB=0.07/1.00 (C-G:1) , SSI=0.09/1.00 (B-C:1)  DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10  COMPANION LIVE LOAD FACTOR = 1.00  AUTOSOLVE HEELS OFF  TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.  NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873  PLATE PLACEMENT TOL. = 0.250 inches  PLATE ROTATION TOL. = 5.0 Deg.  JSI GRIP= 0.35 (B) (INPUT = 0.90 ) JSI METAL= 0.19 (D) (INPUT = 0.95 )			

Structural component only  
DWG# T-2406594

**CITY OF RICHMOND HILL  
BUILDING DIVISION**

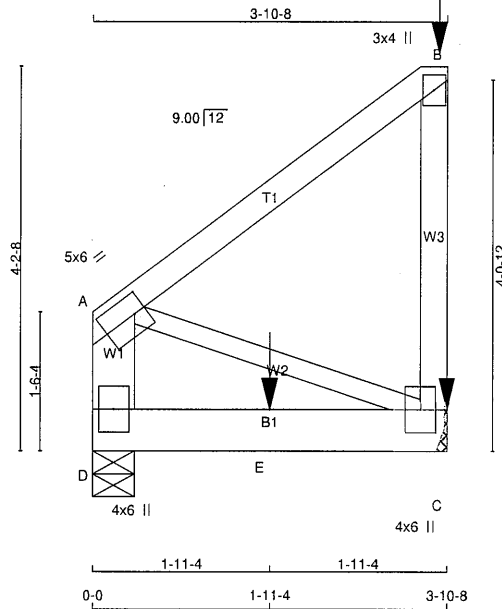
**05/01/2024**

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Per: joshua.nabua

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	T26	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Mar 4 08:03:55 2024 Page 1  
ID:1PtZEc03lbzkDC64XoV?RygPui-yRFb0KDos6Ejh?Rfts\_7ICaeTWQY?U2pb4c7arzeNP2



Scale: 1/2"=1'

TOTAL WEIGHT = 2 X 21 = 42 lb

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

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - B 1	12	SIDE(61.0)
B - C 1	12	SIDE(5.9)
D - A 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
D - C 2	12	SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

**PLATES (table is in inches)**

JT TYPE	PLATES	W	LEN	Y	X
A TMVW-t	MT20	5.0	6.0	2.50	1.50
B TMV+p	MT20	3.0	4.0		
C BMVW1+p	MT20	4.0	6.0		
D BMV1+p	MT20	4.0	6.0		

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REORD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
C	790	0	790	0	0	MECHANICAL	
D	511	0	511	0	0	5-8	1-8

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

**UNFACTORED REACTIONS**

1ST LCASE		MAX /MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
C	554	388 / 0	0 / 0	0 / 0	0 / 0	167 / 0	0 / 0
D	360	244 / 0	0 / 0	0 / 0	0 / 0	116 / 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		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MEMB.	FORCE (LBS)	LC1 MAX	CS (LC)
FR-TO		FROM TO		FR-TO			
A - B	0 / 0	-91.8 -91.8	0.13 (1)	A - C	0 / 0	0.00 (1)	
C - B	-434 / 0	0.0 0.0	0.06 (1)				
D - A	-178 / 0	0.0 0.0	0.01 (1)				
D - E	0 / 0	-18.5 -18.5	0.23 (1)				
E - C	0 / 0	-18.5 -18.5	0.23 (1)				

**SPECIFIED CONCENTRATED LOADS (LBS)**

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
B	3-10-8	-177	-177	---	BACK	VERT	TOTAL	---	C1
C	3-10-8	-17	-17	---	BACK	VERT	TOTAL	---	C1
E	1-11-4	-12	-12	---	BACK	VERT	TOTAL	---	C1
E	1-11-4	-407	-407	---	FRONT	VERT	TOTAL	---	C1

**CONNECTION REQUIREMENTS**

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

**DESIGN CRITERIA**

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF

DL = 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 2015

THIS DESIGN COMPLIES WITH:

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

(55 % OF 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 (0.01")

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

CALCULATED VERT. DEFL.(TL)= L/999 (0.02")

CSI: TC=0.13/1.00 (A-B:1), BC=0.23/1.00 (C-D:1), WB=0.00/1.00 (A-C:1), SSI=0.11/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.09 (B) (INPUT = 0.90 )

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



Structural component only  
DWG# T-2406595

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CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
436988	T26	1	2	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

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ID:1PtZEc03lbzkDC64XoV?RygPuj-yRFb0KDos6Ejh?RFts 7ICaeTWQY?U2pb4c7arzeNP2

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



Structural component only  
DWG# T-2406595

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05/01/2024  
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Per: joshua.nabua



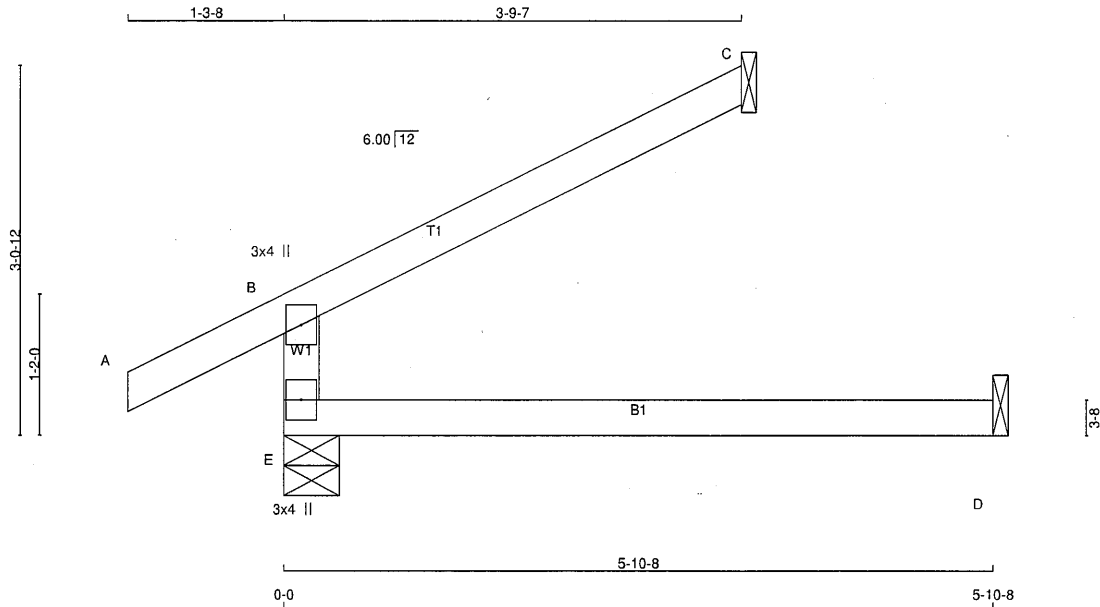


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	J2	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Mar 4 08:03:18 2024 Page 1  
ID:1PtZEC03lbzKDC64XoV?RygPuj-XKWcFhmbZIZzIJ67CbqSIPYIKbpNqluM5q8fnUzeNPd

Scale = 1:18.2



TOTAL WEIGHT = 3 X 14 = 42 lb

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

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

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

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

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

SEE MITK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

#### UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	286	190 / 0	0 / 0	0 / 0	0 / 0	96 / 0	0 / 0
C	90	73 / 0	0 / 0	0 / 0	0 / 0	17 / 0	0 / 0
D	36	0 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD		MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB. FORCE (LBS)	MAX. FACTORED CSI (LC)
			FROM	TO				
FR-TO								
E-B		-342 / 0	0.0	0.0	0.13 (4)	7.81		
A-B		0 / 28	-91.8	-91.8	0.12 (1)	10.00		
B-C		-19 / 0	-91.8	-91.8	0.22 (1)	6.25		
E-D		0 / 0	-18.5	-18.5	0.13 (4)	10.00		

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

##### THIS DESIGN COMPLIES WITH:

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

##### DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 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=0.22/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (E) (INPUT = 0.90 )  
JSI METAL= 0.09 (B) (INPUT = 0.95 )



Structural component only  
DWG# T-2406556

CITY OF RICHMOND HILL  
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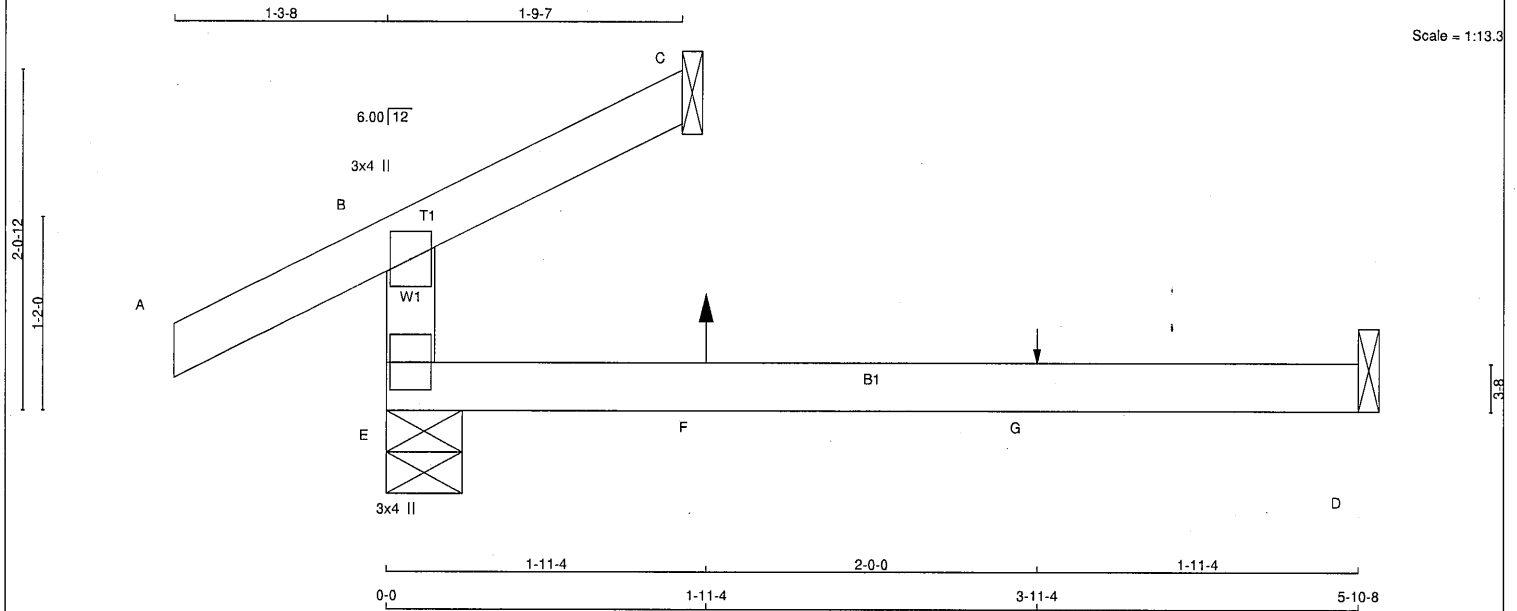
05/01/2024

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Per: joshua.nabua

JOB NAME 436988	TRUSS NAME J3	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 3 X 12 = 35 lb

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

DRY: SEASONED LUMBER.

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REORD BRG
	VERT	HORZ	DOWN	HORZ		
E	284	0	284	0	5-8	1-8
C	63	0	63	0	1-8	1-8
D	44	0	52	0	1-8	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

#### UNFACTORED REACTIONS

JT	COMBINED	1ST LOASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
		SNOW	LIVE	PERM	LIVE			
E	200	137 / 0	0 / 0	0 / 0	0 / 0	62 / 0	0 / 0	0 / 0
C	46	21 / 0	0 / 0	0 / 0	0 / 0	25 / 0	0 / 0	0 / 0
D	35	0 / -3	0 / 0	0 / 0	0 / 0	37 / 0	0 / 0	0 / 0

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (7)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX	MAX. UNBRAC	MEMB. FORCE (LBS)	MAX	CSI (LC)
FR-TO		FROM	TO		LENGTH	FR-TO		
E-B	-227 / 0	0.0	0.0	0.11 (4)	7.81			
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00			
B-C	-9 / 9	-91.8	-91.8	0.08 (4)	10.00			
E-F	0 / 0	-18.5	-18.5	0.14 (4)	10.00			
F-G	0 / 0	-18.5	-18.5	0.14 (4)	10.00			
G-D	0 / 0	-18.5	-18.5	0.14 (4)	10.00			

#### SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	1-11-4	5	1	8	BACK	VERT	TOTAL	---	C1
G	3-11-4	1	1	---	BACK	VERT	TOTAL	---	C1

#### CONNECTION REQUIREMENTS

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

#### DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.20")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
ALLOWABLE DEFL.(TL)= L/360 (0.20")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.12/1.00 (A-B:1), BC=0.14/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=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)	(PLI)	(PLI)	
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.09 (E) (INPUT = 0.90)  
JSI METAL= 0.06 (E) (INPUT = 0.95)



Structural component only  
DWG# T-2406557

CITY OF RICHMOND HILL  
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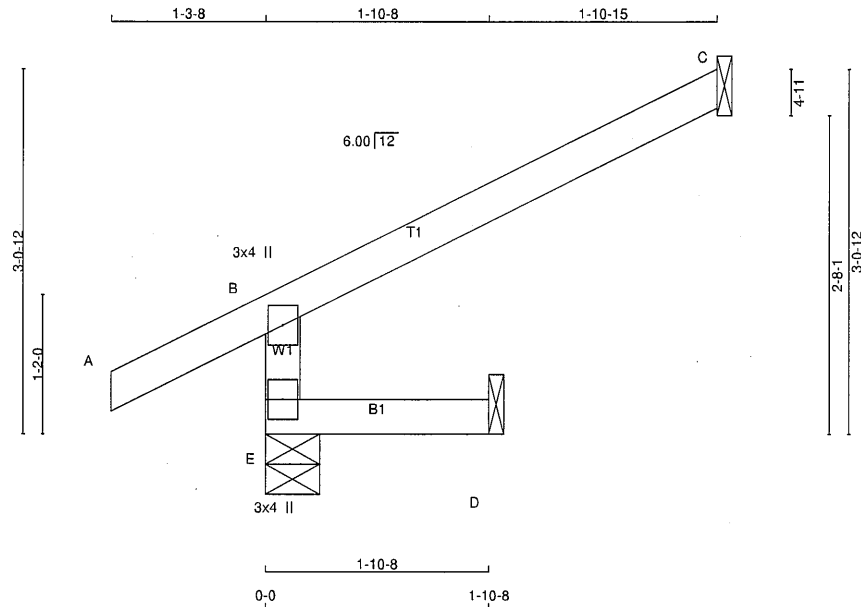
05/01/2024

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Per: joshua.nabua

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	J4	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 Mitek Industries, Inc. Mon Mar 4 08:03:19 2024 Page 1  
ID:1PtZEc03lbzkDC64XoV?RygPuj-0W4\_S0nDK2hqNthKmlHrc5T4?BPZC8WJUuDJwzeNPc



Scale = 1:18.4

TOTAL WEIGHT = 3 X 10 = 29 lb

#### LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	No.2	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		

#### NOTES

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

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

##### BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
E	361	0	361	0	5-8	1-8
C	130	0	130	0	1-8	1-8
D	16	0	17	0	1-8	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

##### UNFACTORED REACTIONS

JT	1ST LOASE	MAX/MIN. COMPONENT REACTIONS				WIND	DEAD	SOIL
		COMBINED	SNOW	LIVE	PERM.LIVE			
E	250	190/0	0/0	0/0	0/0	60/0	0/0	0/0
C	90	73/0	0/0	0/0	0/0	17/0	0/0	0/0
D	12	0/0	0/0	0/0	0/0	12/0	0/0	0/0

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (5)

CHORDS			WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	FACTORED LC1 MAX UNBRAC LENGTH	MEMB. MAX. FACTORED FORCE (LBS)	FACTORED MAX CSI (LC)	
FR-TO		FROM TO	CSI (LC)	FR-TO		
E-B	-342 / 0	0.0	0.0 0.01 (4)	7.81		
A-B	0 / 28	-91.8	-91.8 0.13 (5)	10.00		
B-C	-19 / 0	-91.8	-91.8 0.22 (1)	6.25		
E-D	0 / 0	-18.5	-18.5 0.02 (4)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### 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 2015

THIS DESIGN COMPLIES WITH:

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

##### DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 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 (n/a:0), SSI=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (E) (INPUT = 0.90 )  
JSI METAL= 0.09 (B) (INPUT = 0.95 )



Structural component only  
DWG# T-2406558

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BUILDING DIVISION

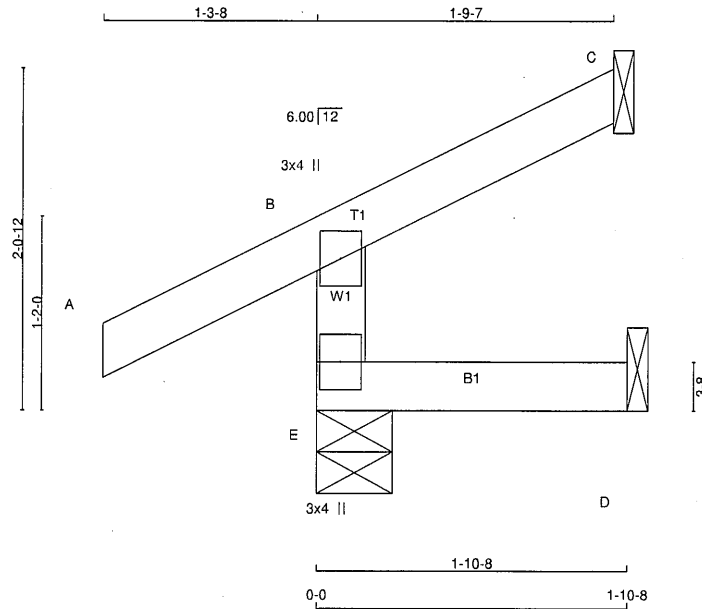
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Per: joshua.nabua

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	J5	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 3 X 7 = 21 lb

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

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

#### NOTES (1)

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

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

##### BEARINGS

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

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

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

##### UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	188	141 / 0	0 / 0	0 / 0	0 / 0	47 / 0	0 / 0
C	31	24 / -18	0 / 0	0 / 0	0 / 0	7 / 0	0 / 0
D	7	0 / -8	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (5)

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

TOP CH.	LL	=	25.6	PSF
	DL	=	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 2015

##### THIS DESIGN COMPLIES WITH:

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

##### DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

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

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.10 (E) (INPUT = 0.90 )  
JSI METAL= 0.07 (B) (INPUT = 0.95 )



Structural component only  
DWG# T-2406559

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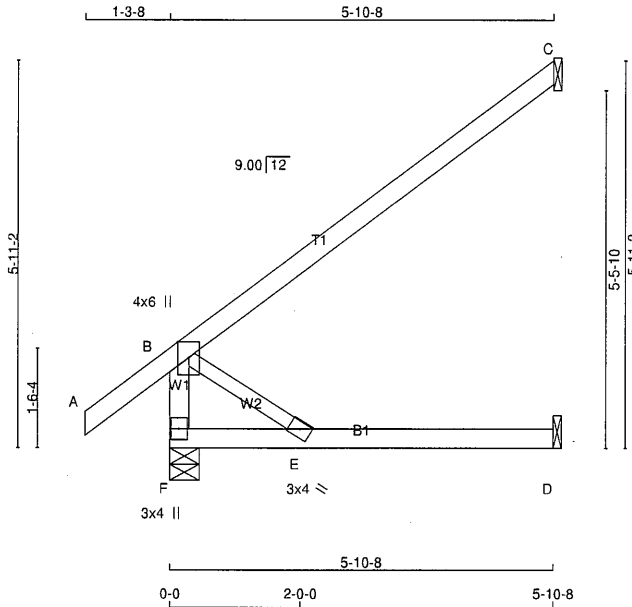
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Per: joshua.nabua

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	J6	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:33.7

TOTAL WEIGHT = 2 X 20 = 40 lb

#### LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
F - B	2x4	DRY	No.2
A - C	2x4	DRY	No.2
F - D	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

#### PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	6.0	Edge	
E	BMV+w	MT20	3.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

#### NOTES- (1)

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

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

##### BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REORD BRG
	VERT	HORZ	DOWN	HORZ		
F	450	0	450	0	5-8	1-8
C	270	0	270	0	1-8	1-8
D	54	0	61	0	1-8	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

##### UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	316	221 / 0	0 / 0	0 / 0	0 / 0	95 / 0	0 / 0
C	186	150 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0
D	43	0 / 0	0 / 0	0 / 0	0 / 0	43 / 0	0 / 0

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS			
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRACED LENGTH	MEMB. FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO				
F-B	-396/0	0.0	0.0	0.04 (1)	7.81	0/0
A-B	0/38	-91.8	-91.8	0.12 (1)	10.00	
B-C	0/0	-91.8	-91.8	0.54 (1)	10.00	
F-E	0/0	-18.5	-18.5	0.17 (4)	10.00	
E-D	0/0	-18.5	-18.5	0.19 (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 2015

THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.54/1.00 (B-C:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SSI=0.17/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.22 (B) (INPUT = 0.90 )  
JSI METAL= 0.10 (B) (INPUT = 0.95 )



Structural component only  
DWG# T-2406560

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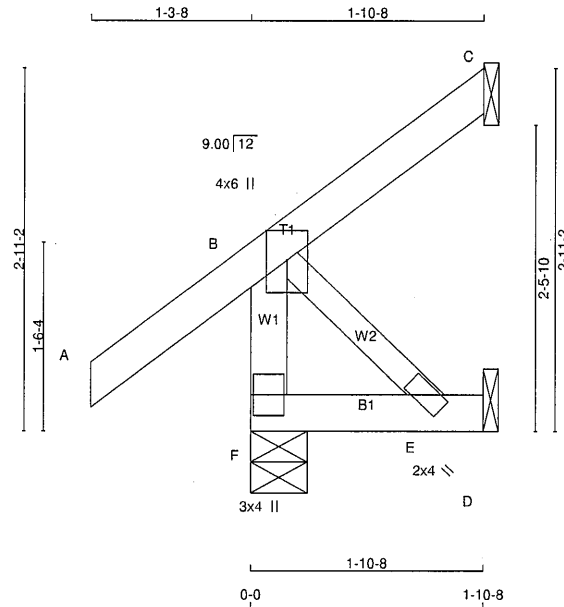
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RECEIVED  
Per: joshua.nabua

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	J7	4	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 4 X 9 = 38 lb

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	6.0	Edge
E	BMW+w	MT20	2.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

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

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
F	276	0	276	0	0	5-8	1-8	1-8	1-8
C	39	0	39	0	-36	1-8	1-8	1-8	1-8
D	17	0	19	0	0	1-8	1-8	1-8	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

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

#### UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	DEAD	SOIL	DEAD	SOIL
F	192	144 / 0	0 / 0	0 / 0	0 / 0	48 / 0	0 / 0	48 / 0	0 / 0	48 / 0	0 / 0
C	27	22 / -26	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0	5 / 0	0 / 0	5 / 0	0 / 0
D	14	0 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0	14 / 0	0 / 0	14 / 0	0 / 0

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (5)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PL)	LC1 MAX (LC)	MEMB.	FORCE (LBS)	MAX (LC)	MAX (LC)
FR-TO		FROM	TO	FR-TO			
F-B	-259 / 0	0.0	0.0 0.03 (1)	7.81	0 / 0	0.00 (1)	
A-B	0 / 38	-91.8	-91.8 0.12 (1)	10.00			
B-C	-28 / 0	-91.8	-91.8 0.12 (1)	6.25			
F-E	0 / 0	-18.5	-18.5 0.02 (4)	10.00			
E-D	0 / 0	-18.5	-18.5 0.01 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### 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 2015

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

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

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

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

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

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (B) (INPUT = 0.90)  
JSI METAL= 0.07 (B) (INPUT = 0.95)



Structural component only  
DWG# T-2406561

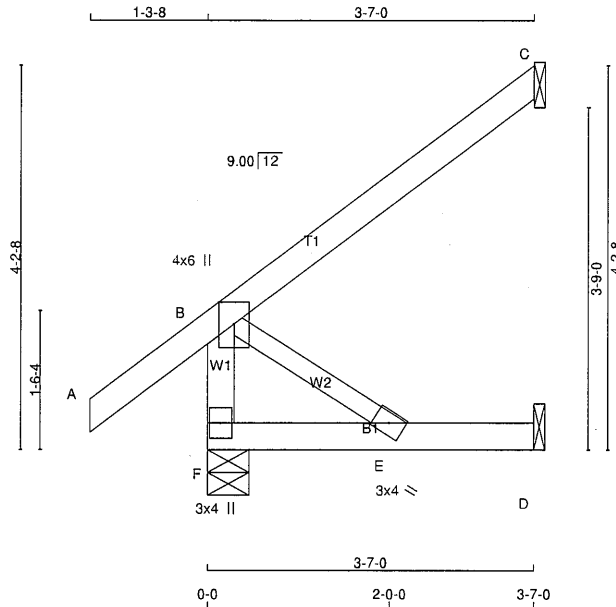
CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

RECEIVED  
Per: joshua.nabua



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
436988	J8	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Mar 4 08:03:22 2024 Page 1			
		ID:1PtzEZc03lbzkDC64XoV?RygPuj-Q5m652q5dz3OExPvRRuOTFj_gCBGmZty0R6twFzeNPZ			



TOTAL WEIGHT = 14 lb

#### LUMBER

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

#### PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	6.0	Edge	
E	BMW+w	MT20	3.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
F	324	0	324	0
C	164	0	164	0
D	33	0	37	0

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

#### UNFACTORED REACTIONS

1ST LCASE	MAX/MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW
F	227	162 / 0
C	113	92 / 0
D	27	0 / 0

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

#### BRACING

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

#### LOADING

TOTAL LOAD CASES: (5)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
F-B	-291 / 0	0.0 0.0 0.03 (1)	B-E	0 / 0
A-B	0 / 38	-91.8 -91.8 0.14 (5)		
B-C	0 / 0	-91.8 -91.8 0.20 (1)		
F-E	0 / 0	-18.5 -18.5 0.07 (4)		
E-D	0 / 0	-18.5 -18.5 0.07 (4)		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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

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

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

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

CSI: TC=0.20/1.00 (B-C:1), BC=0.07/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SSI=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (B) (INPUT = 0.90)  
JSI METAL= 0.08 (B) (INPUT = 0.95)



Structural component only  
DWG# T-2406562

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

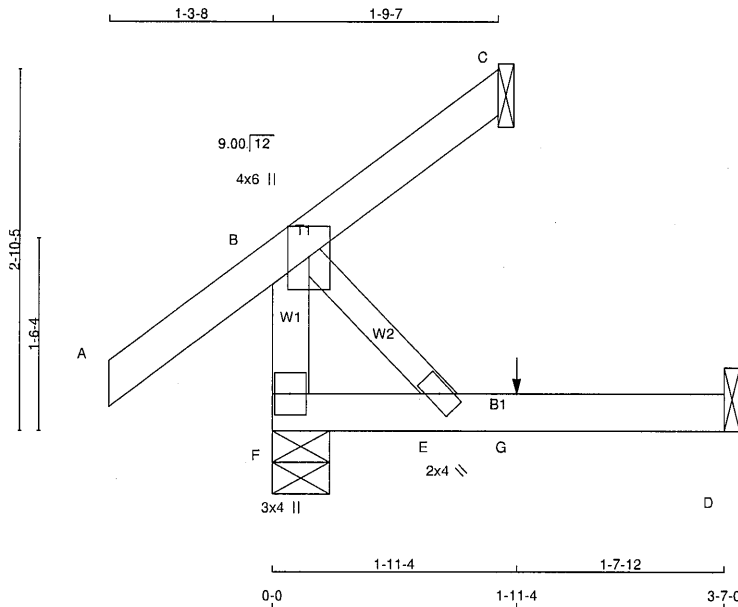
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Per: joshua.nabua

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	J9	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:1PtZEc03lbzKDC64XoV?RygPuj-uHJVIOqjOHBFS5\_5?8Pd?SFAMcXVV075E5sQSizeNPY

Scale = 1:17.4



TOTAL WEIGHT = 11 lb

#### LUMBER

N. L. G. A. RULES

CHORDS SIZE

F - B 2x4 DRY No.2

A - C 2x4 DRY No.2

F - D 2x4 DRY No.2

ALL WEBS 2x3 DRY No.2

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	6.0	Edge	
E	BMW+w	MT20	2.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

#### NOTES- (1)

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

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

##### BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REORD BRG
F	290	290	0	1-8
C	33	33	-39	1-8
D	33	37	0	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

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

##### UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	204	144 / 0	0 / 0	0 / 0	0 / 0	60 / 0	0 / 0
C	23	18 / -27	0 / 0	0 / 0	0 / 0	4 / 0	0 / 0
D	27	0 / 0	0 / 0	0 / 0	0 / 0	27 / 0	0 / 0

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	
FR-TO		FROM	TO	FR-TO			
F-B	-257 / 0	0.0	0.03 (1)	B-E	0 / 0	0.00 (1)	
A-B	0 / 38	-91.8	-91.8 0.14 (5)				
B-C	-29 / 0	-91.8	-91.8 0.13 (5)				
F-E	0 / 0	-18.5	-18.5 0.06 (4)				
E-G	0 / 0	-18.5	-18.5 0.07 (4)				
G-D	0 / 0	-18.5	-18.5 0.07 (4)				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	1-11-4	1	1		FRONT	VERT	TOTAL		C1

##### CONNECTION REQUIREMENTS

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### 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 2015

THIS DESIGN COMPLIES WITH:

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

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 31.3 P.S.F. G.S.L. PLUS 9.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.14/1.00 (A-B:5), BC=0.07/1.00 (D-E:4),  
WB=0.00/1.00 (B-E:1), SSI=0.09/1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (B) (INPUT = 0.90)  
JSI METAL= 0.07 (B) (INPUT = 0.95)



Structural component only  
DWG# T-2406563

CITY OF RICHMOND HILL  
BUILDING DIVISION

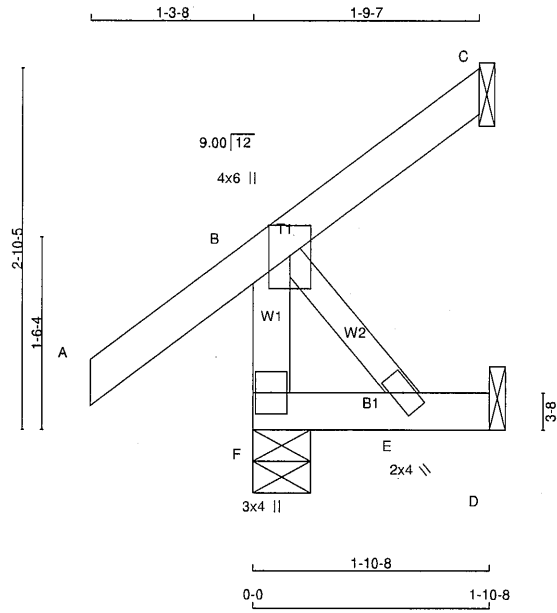
05/01/2024

RECEIVED  
Per: joshua.nabua

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	J10	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:17.4

TOTAL WEIGHT = 2 X 9 = 18 lb

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	6.0	Edge
E	BMW+w	MT20	2.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

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

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
F	275	0	275	0	0	5-8	1-8		
C	33	0	33	0	-39	1-8	1-8		
D	17	0	19	0	0	1-8	1-8		

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

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

#### UNFACTORED REACTIONS

1ST LCASE		MAX / MIN. COMPONENT REACTIONS		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	DEAD	SOIL	DEAD	SOIL
F	191	144 / 0	0 / 0	0 / 0	0 / 0	48 / 0	0 / 0				
C	23	18 / -27	0 / 0	0 / 0	0 / 0	4 / 0	0 / 0				
D	14	0 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0				

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (5)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
F-B	-257 / 0	B-E	0 / 0
A-B	0 / 38		
B-C	-29 / 0		
F-E	0 / 0		
E-D	0 / 0		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### 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 2015

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

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

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

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

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

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (B) (INPUT = 0.90 )  
JSI METAL= 0.07 (B) (INPUT = 0.95 )



Structural component only  
DWG# T-2406564

CITY OF RICHMOND HILL  
BUILDING DIVISION

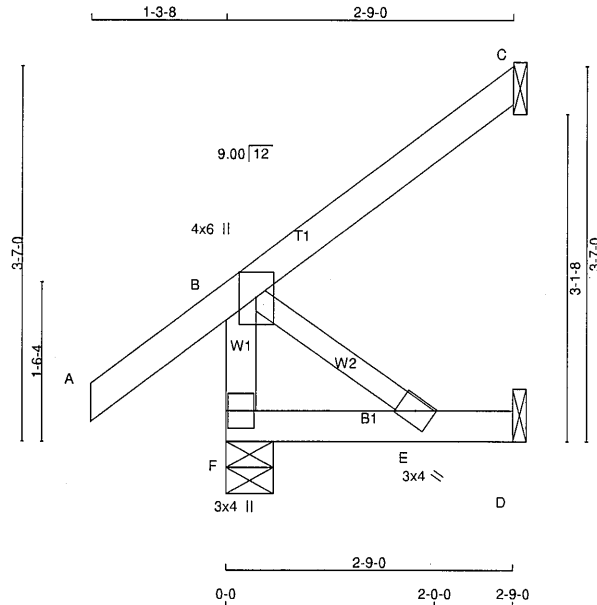
05/01/2024

RECEIVED  
Per: joshua.nabua

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	J11	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:21.0

TOTAL WEIGHT = 2 X 12 = 24 lb

#### LUMBER

N. L. G. A. RULES

CHORDS SIZE

F - B 2x4 DRY No.2

A - C 2x4 DRY No.2

F - D 2x4 DRY No.2

ALL WEBS 2x3 DRY No.2

DRY: SEASONED LUMBER.

LUMBER

No.2

No.2

No.2

No.2

DESCR.

SPF

SPF

SPF

SPF

#### PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	6.0	Edge	
E	BMV+w	MT20	3.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

#### NOTES- (1)

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

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

##### BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REORD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
F	278	0	278	0	5-8	1-8
C	126	0	126	0	1-8	1-8
D	25	0	28	0	1-8	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

##### UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	194	141/0	0/0	0/0	0/0	53/0	0/0
C	87	70/0	0/0	0/0	0/0	17/0	0/0
D	20	0/0	0/0	0/0	0/0	20/0	0/0

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS		WEBS			
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRAC LENGTH	MEMB. FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO				
F-B	-253/0	0.0	0.0	0.03 (1)	7.81	0/0
A-B	0/38	-91.8	-91.8	0.13 (5)	10.00	
B-C	0/0	-91.8	-91.8	0.12 (1)	10.00	
F-E	0/0	-18.5	-18.5	0.04 (4)	10.00	
E-D	0/0	-18.5	-18.5	0.04 (4)	10.00	

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### 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 2015

THIS DESIGN COMPLIES WITH:

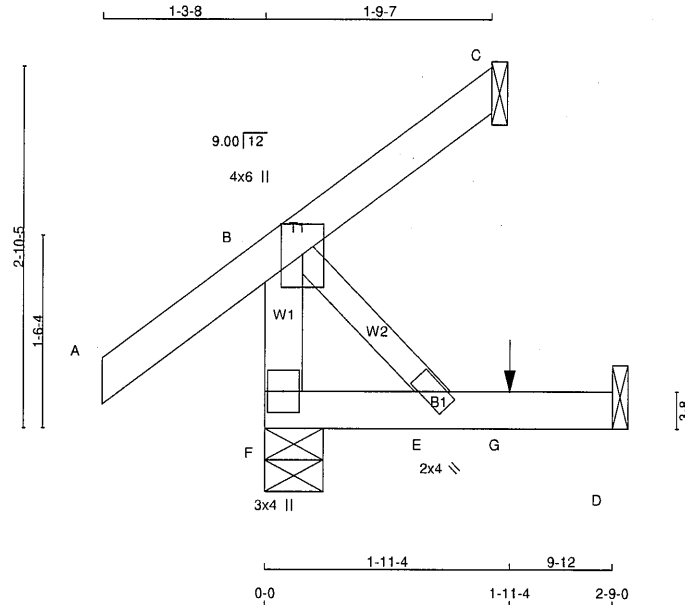
- PART 9 OF BCBC 2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

JOB NAME 436988	TRUSS NAME J12	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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Scale = 1:17.4



TOTAL WEIGHT = 10 lb

#### LUMBER

N. L. G. A. RULES

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

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

#### PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	6.0	Edge	
E	BMW+w	MT20	2.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

#### NOTES (1)

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

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

##### BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REORD BRG
	VERT	HORZ	DOWN	HORZ		
F	283	0	283	0	5-8	1-8
C	33	0	33	0	-39	1-8
D	26	0	29	0	1-8	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

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

##### UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	198	144 / 0	0 / 0	0 / 0	0 / 0	54 / 0	0 / 0
C	23	18 / -27	0 / 0	0 / 0	0 / 0	4 / 0	0 / 0
D	21	0 / 0	0 / 0	0 / 0	0 / 0	21 / 0	0 / 0

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (5)

CHORDS					WEBS				
MEMB.	MAX. FACTORED	VERT. LOAD	FACTORED		MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED	MAX CS1 (LC)	
	FORCE (LBS)		(PLF)	LC1			CS1 (LC)		FORCE (LBS)
FR-TO		FROM	TO			FR-TO			
F-B	-257 / 0	0.0	0.0	0.03 (1)	7.81	B-E	0 / 0	0.00 (1)	
A-B	0 / 38	-91.8	-91.8	0.14 (5)	10.00				
B-C	-29 / 0	-91.8	-91.8	0.13 (5)	6.25				
F-E	0 / 0	-18.5	-18.5	0.04 (4)	10.00				
E-G	0 / 0	-18.5	-18.5	0.04 (4)	10.00				
G-D	0 / 0	-18.5	-18.5	0.04 (4)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	1-11-4	-0	-0	---	FRONT	VERT	TOTAL	---	C1

##### CONNECTION REQUIREMENTS

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### 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 2015

THIS DESIGN COMPLIES WITH:

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

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CS1: TC=0.14/1.00 (A-B:5), BC=0.04/1.00 (D-E:4),  
WB=0.00/1.00 (B-E:1), SS1=0.09/1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (B) (INPUT = 0.90)  
JSI METAL= 0.07 (B) (INPUT = 0.95)



Structural component only  
DWG# T-2406566

CITY OF RICHMOND HILL  
BUILDING DIVISION

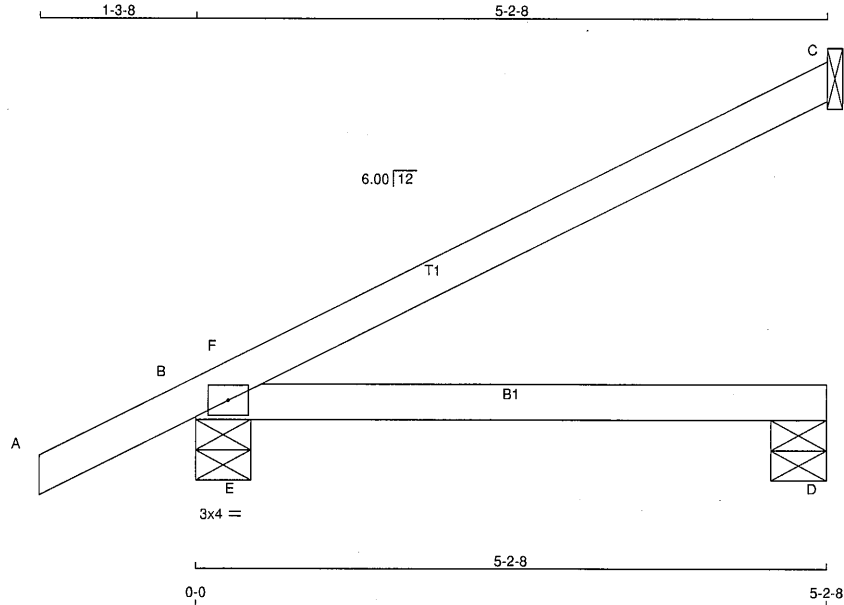
05/01/2024

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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
436988	J13	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Mar 4 08:03:26 2024 Page 1  
ID:1PtZEc03lbzkDC64XoV?RygPuj-Is?dwQtchCaqYjggGzKd5teKqWmiNtYx34431zeNPV



TOTAL WEIGHT = 3 X 14 = 43 lb

#### LUMBER

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		

#### NOTES:

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REORD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
C	209	0	209	0	0	1-8	1-8		
B	412	0	412	0	0	5-8	1-8		
D	78	0	78	0	0	5-8	1-8		

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C

#### UNFACTORED REACTIONS

JT	1ST LCASE	MAX / MIN	COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
C	145	113 / 0	0 / 0	0 / 0	0 / 0	0 / 0	32 / 0	0 / 0	0 / 0
B	289	203 / 0	0 / 0	0 / 0	0 / 0	0 / 0	86 / 0	0 / 0	0 / 0
D	58	20 / 0	0 / 0	0 / 0	0 / 0	0 / 0	38 / 0	0 / 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 = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.  
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

#### LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MEMB.	FORCE (LBS)	LC1 MAX	LC1 MAX
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 27	-91.8	-91.8 0.12 (1)	10.00	E-F	-384 / 9	0.00 (1)
B-F	-25 / 68	-91.8	-91.8 0.08 (1)	6.25			
F-C	-5 / 2	-91.8	-91.8 0.32 (1)	10.00			
B-E	0 / 0	-18.5	-18.5 0.22 (1)	10.00			
E-D	0 / 0	-18.5	-18.5 0.22 (1)	10.00			

#### DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 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 (0.04")  
ALLOWABLE DEFL.(TL)= L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/705 (0.09")

CSI: TC=0.32/1.00 (C-F:1), BC=0.22/1.00 (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
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.33 (B) (INPUT = 0.90)  
JSI METAL= 0.07 (B) (INPUT = 0.95)



Structural component only  
DWG# T-2406567

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

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Per: joshua.nabua





## Alves Engineering Services Inc.

5208 Easton road  
Burlington, Ontario L7L 6N6  
(289) 259 5455

### RESPONSABILITIES

- 1-Alves Engineering Services Inc. is responsible for the design of trusses as individual components
- 2-It is the responsibility of others to ascertain that the design loads utilized on this drawing meet or exceed the actual dead load imposed by the structure and the live load imposed by the local building code or the authorities having jurisdictions.
- 3- All dimensions are to be verified by owner, contractor, architect or other authority before manufacture.
- 4- Alves Engineering Services Inc. bears no responsibility for the erection of the trusses. Persons erecting trusses are cautioned to seek professional advice regarding temporary and permanent bracing system. Bracing shown on Alves Engineering Services Inc. drawings is specified for the truss as a single component and forms an integral part of the truss design, but is not meant to represent the only required bracing for that truss when trusses are installed in a series of trusses forming a roof truss system.
- 5- It is the manufactures responsibility to ensure that the trusses are manufactured in conformance with Alves Engineering Services Inc. specifications outlined below.

### SPECIFICATIONS

- 1-Truss components sealed by Alves Engineering Services Inc. conform to the relevant sections of the current Building Code of Ontario and Canada (part 4 or part 9) or the current Canadian code for Farm Buildings in accordance with the application specified on the sealed truss component drawing. All truss component design procedures must conform to the current design standard issued by the truss plate institute of Canada (TPIC). All lumber and nailing stresses to conform to the current CSA wood design standard identified on the current Building Code and TPIC.
- 2- Lumber is to be the sizes and grade specified on the truss drawing.
- 3- Moist content of lumber is not to exceed 19% in service unless otherwise specified.
- 4- Plates shall be applied to both faces of the each truss joint and shall be positioned as shown on the truss drawings
- 5- Lumber used on manufacture of trusses is not to be treated with chemicals unless otherwise specified on the truss drawings.
- 6- The top chord is assumed to be continuously laterally braced by the roof sheathing or purlins at intervals specified on the truss drawing but not exceeding 24" c/c for (part 9) and not exceeding 48" for (part 4 or farm design)
- 7- When rigid ceiling is not attached directly to the bottom chord, lateral bracing is required and it should not exceed more than 3m or 10' intervals.
- 8-Refer to Mitek sheet MII7473C REV.10-08 attached for information on symbols, numbering system and General Safety notes.

T-1900219

Feb 09, 2018

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

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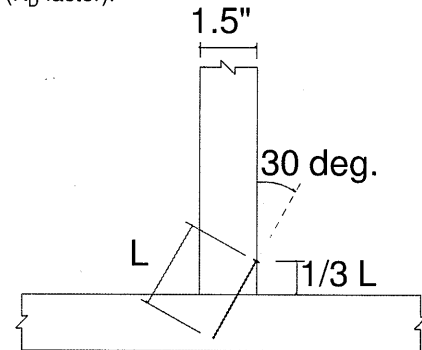
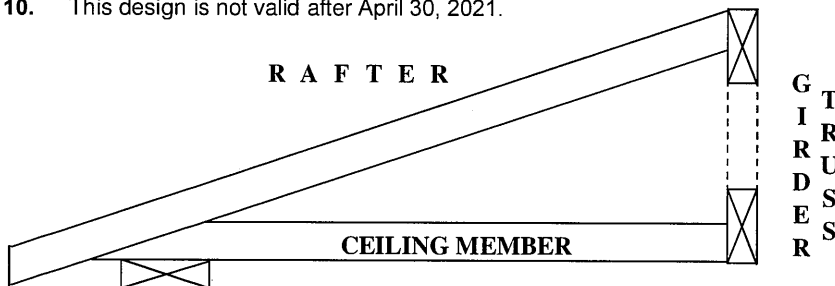
# BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B97791H1

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

## NOTES:

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



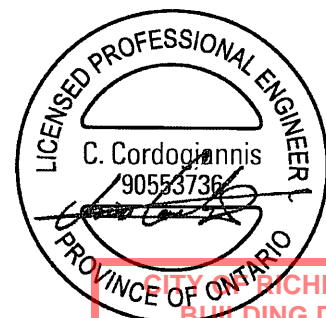
TOE-NAIL INSTALLATION

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

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

April 2, 2020

PEO  
Certificate No. 10889485



05/01/2024

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# BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

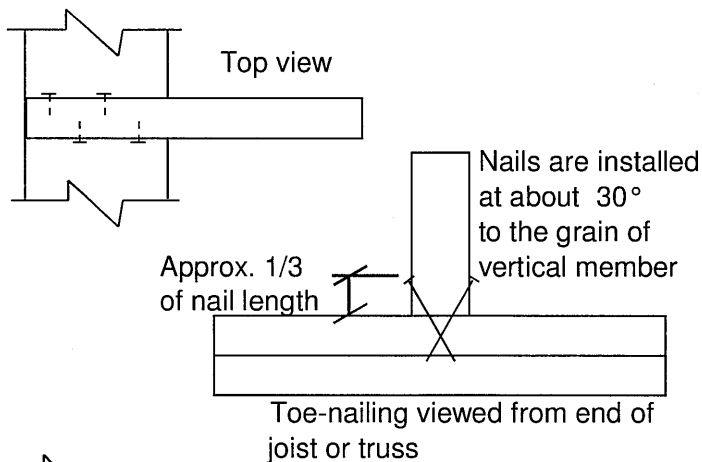
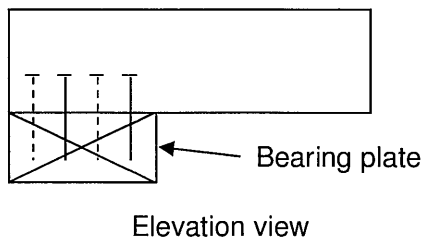
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52
COMMON SPIRAL	3.00	0.122	26	36
	3.25	0.122	28	40
	3.50	0.152	36	50

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

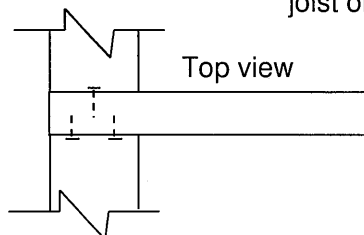
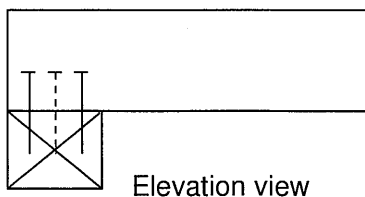
## NOTES:

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

## Toe-nailing on 2x6 Bearing Plate



## Toe-nailing on 2x4 Bearing Plate

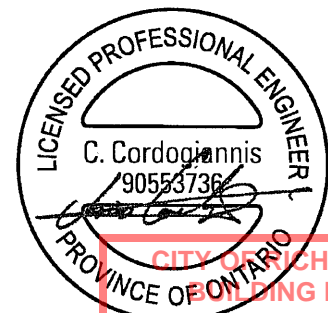


**MiTek**®

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

April 2, 2020

PEO  
Certificate No. 10889485



05/01/2024

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Per: joshua.nabua

# LUS — Double-Shear Joist Hangers



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

**Material:** 18 gauge

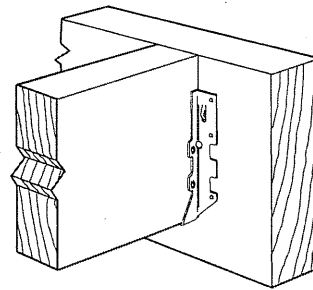
**Finish:** G90 galvanized

**Design:**

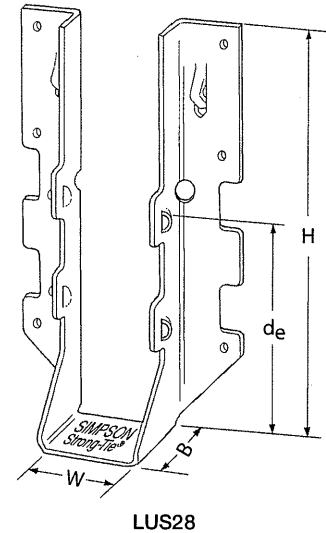
- Factored resistances are in accordance with CSA O86-14 and CSA O86:19.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

**Installation:**

- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3½" long common wire, 10d = 0.148" x 3" long common wire
- Double-shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

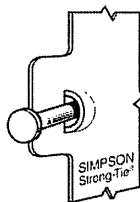


Typical LUS Installation

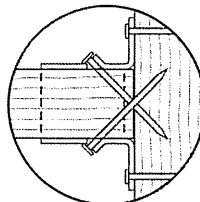


Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d <sub>e</sub> <sup>1</sup>	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K <sub>p</sub> =1.15)	Normal (K <sub>p</sub> =1.00)	Uplift (K <sub>p</sub> =1.15)	Normal (K <sub>p</sub> =1.00)
LUS24	18	1⅞	3⅞	1¾	1 15/16	(4) 10d	(2) 10d	710	1630	645	1155
LUS24-2	18	3⅞	3⅞	2	1 13/16	(4) 16d	(2) 16d	835	2020	590	1435
LUS26	18	1⅞	4¾	1¾	3⅞	(4) 10d	(4) 10d	1420	2170	1290	1630
LUS26-2	18	3⅞	4¾	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
LUS26-3	18	4⅞	4¾	2	3¼	(4) 16d	(4) 16d	1720	2595	1545	2340
LUS28	18	1⅞	6⅞	1¾	3¾	(6) 10d	(6) 10d	1420	2520	1290	1790
LUS28-2	18	3⅞	7	2	4	(6) 16d	(4) 16d	1720	3325	1545	2575
LUS28-3	18	4⅞	6¼	2	3¼	(6) 16d	(4) 16d	1720	3325	1545	2375
LUS210	18	1⅞	7 13/16	1¾	3⅞	(8) 10d	(4) 10d	1420	2785	1290	2210
LUS210-2	18	3⅞	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
LUS210-3	18	4⅞	8⅞	2	5¼	(8) 16d	(6) 16d	2580	3345	2320	2375

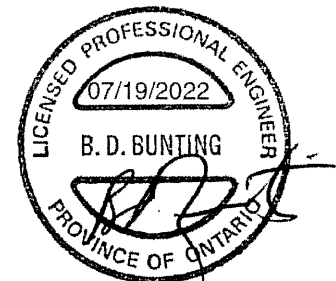
1. d<sub>e</sub> is the distance from the seat of the hanger to the highest joist nail.



Dome double-shear nailing prevents tabs breaking off (available on some models).  
US Patent 5,603,580



Double-shear nailing top view.



This technical bulletin is effective until December 31, 2024, and reflects information available as of July 1, 2022. This information is updated periodically and should not be relied upon after December 31, 2024. Contact Simpson Strong-Tie for current information and limited warranty or see [strongtie.com](http://strongtie.com).

© 2022 Simpson Strong-Tie Company Inc. • P.O. Box 10789, Pleasanton, CA 94588

T-SPECLUS22 7/22 exp. 12/24

CITY OF RICHMOND HILL  
BUILDING DIVISION  
(800) 999-5099  
[strongtie.com](http://strongtie.com)  
05/01/2024

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Per: joshua.nabua

# HUS/LJS — Double-Shear Joist Hangers



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

**Material:** See table

**Finish:** G90 galvanized

**Design:**

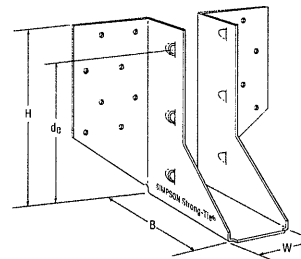
- Factored resistances are in accordance with CSA O86-14 and CSA O86:19.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

**Installation:**

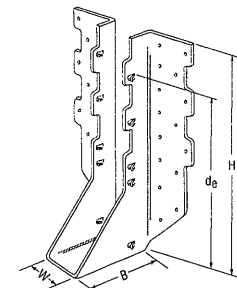
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3½" long common wire
- Double-shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

**Options:**

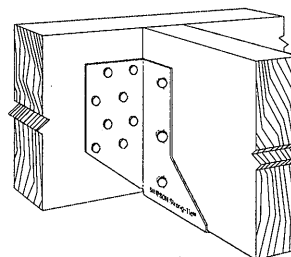
- See current catalogue for options



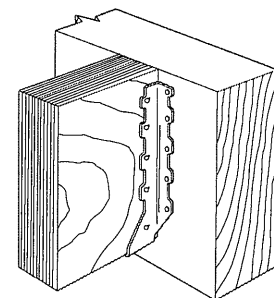
LJS26DS



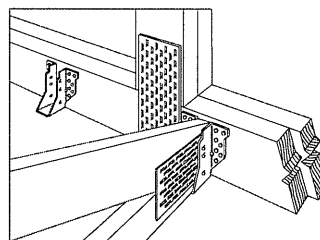
HUS210  
(HUS26, HUS28, similar)



Typical LJS26DS  
Installation



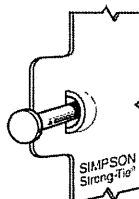
Typical HUS  
Installation



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

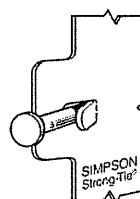
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d <sub>e</sub> <sup>1</sup>	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K <sub>o</sub> =1.15)	Normal (K <sub>o</sub> =1.00)	Uplift (K <sub>o</sub> =1.15)	Normal (K <sub>o</sub> =1.00)
								lb.	lb.	lb.	lb.
LJS26DS	18	1⅞	5	3½	4⅝	(16) 16d	(6) 16d	2055	4265	1460	4115
HUS26	16	1⅞	5⅝	3	3⅞	(14) 16d	(6) 16d	2705	4940	2065	3875
HUS28	16	1⅞	7⅞	3	6⅞	(22) 16d	(8) 16d	3605	5365	2675	4345
HUS210	16	1⅞	9⅞	3	7⅞	(30) 16d	(10) 16d	4505	5795	4010	4740
HUS1.81/10	16	1⅞	9	3	8	(30) 16d	(10) 16d	4505	6450	4010	5200

1. d<sub>e</sub> is the distance from the seat of the hanger to the highest joist nail.

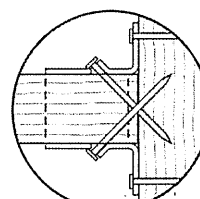


Dome double-shear nailing prevents tabs breaking off (available on some models).

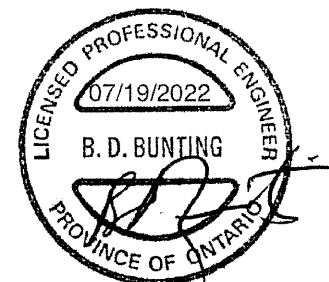
US Patent 5,603,580



Double-shear nailing side view. Do not bend tab back.



Double-shear nailing top view.



This technical bulletin is effective until December 31, 2024, and reflects information available as of July 1, 2022. This information is updated periodically and should not be relied upon after December 31, 2024. Contact Simpson Strong-Tie for current information and limited warranty or see [strongtie.com](http://strongtie.com).

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T-SPECHUS22 7/22 exp. 12/24

CITY OF RICHMOND HILL  
BUILDING DIVISION  
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# HGUS — Double-Shear Joist Hangers



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

**Material:** 12 gauge

**Finish:** G90 galvanized

**Design:**

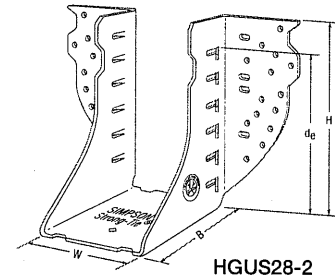
- Factored resistances are in accordance with CSA O86:14 and CSA O86:19.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

**Installation:**

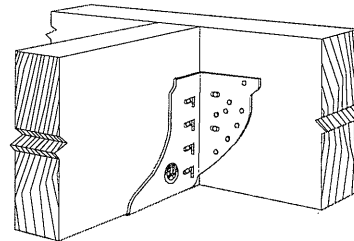
- Use all specified fasteners
- Nails: 16d = 0.162" dia x 3½" long common wire
- Double-shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

**Options:**

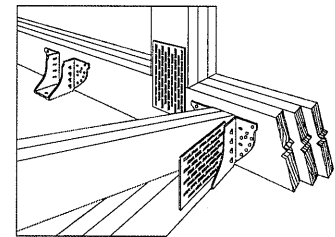
- See current catalogue for options



HGUS28-2



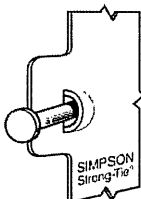
Typical HGUS Installation



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

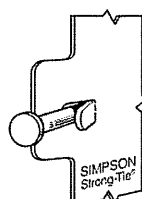
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d <sub>1</sub>	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K <sub>0</sub> =1.15)	Normal (K <sub>0</sub> =1.00)	Uplift (K <sub>0</sub> =1.15)	Normal (K <sub>0</sub> =1.00)
HGUS26	12	1½	5½	5	4½	(20) 16d	(8) 16d	2685	6625	2685	5700
HGUS26-2	12	3½	5½	4	4½	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS26-3	12	4½	5½	4	4½	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS26-4	12	6½	5½	4	4½	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS28	12	1½	7½	5	6½	(36) 16d	(12) 16d	3310	7675	3100	6900
HGUS28-2	12	3½	7½	4	6½	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS28-3	12	4½	7½	4	6½	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS28-4	12	6½	7½	4	6½	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS210-2	12	3½	9½	4	8½	(46) 16d	(16) 16d	6840	14015	4855	10270
HGUS210-3	12	4½	9½	4	8½	(46) 16d	(16) 16d	6840	14645	4855	10400
HGUS210-4	12	6½	9½	4	8½	(46) 16d	(16) 16d	6840	14645	4855	10400
HGUS212-4	12	6½	10½	4	10½	(56) 16d	(20) 16d	7640	14995	5425	10645
HGUS214-4	12	6½	12½	4	11½	(66) 16d	(22) 16d	10130	16400	7195	11645

1. d<sub>1</sub> is the distance from the seat of the hanger to the highest joist nail.

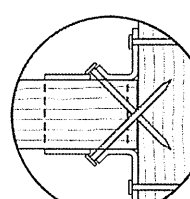


Dome double-shear nailing prevents tabs breaking off (available on some models).

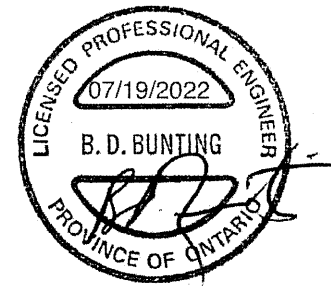
US Patent 5,603,580



Double-shear nailing side view. Do not bend tab back.



Double-shear nailing top view.



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ONTARIO WOOD TRUSS  
FABRICATORS ASSOCIATION

## TECH-NOTES

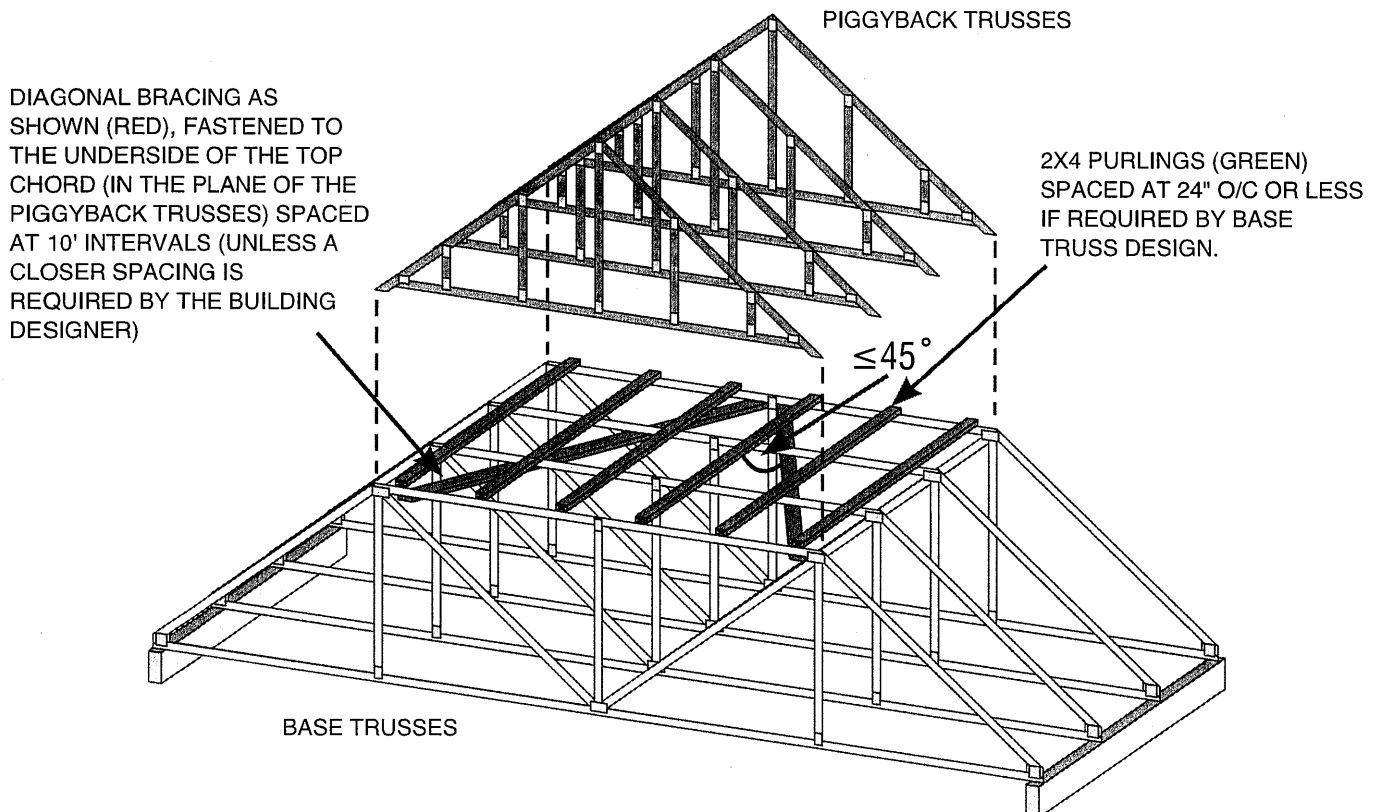
### TN 15-001 Piggyback Bracing

#### Overview:

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

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

#### Detail:



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

SKETCH FROM BCSI-CANADA 2013

#### Disclaimer:

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

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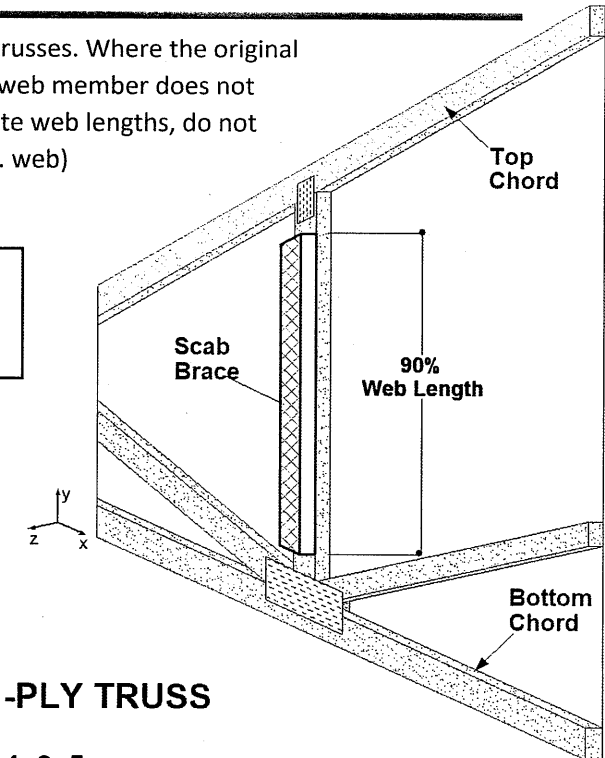
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### ALTERNATIVE WEB BRACING SOLUTIONS

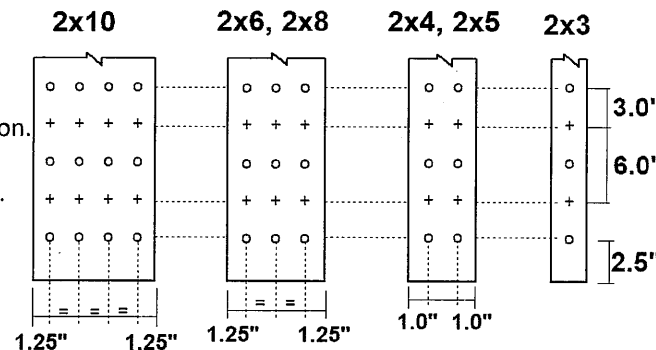
The scab brace detail shown on this page provides an alternative method of bracing compression webs of single ply trusses. Where the original design calls for web bracing, the scab-brace is an acceptable alternative provided that the factored axial force in the web member does not exceed the tabulated values shown below. This detail applies to web lengths of 4.0 ft. to 10.0 ft. only. For intermediate web lengths, do not interpolate, use the tabulated value of the longer length. (ex. For a 6.25 ft. web, use the tabulated values for a 6.5 ft. web)

Maximum factored web force, lbs (1-Ply Truss)					
Web size	2x3	2x4	2x5	2x6	2x8+
4.0	4331	6064	7796	9529	12561
4.5	3794	5312	6829	8347	11003
5.0	3285	4599	5913	7227	9527
5.5	2823	3952	5081	6210	8186
6.0	2415	3381	4347	5313	7003
6.5	2063	2888	3713	4538	5982
7.0	1763	2468	3174	3879	5113
7.5	1510	2114	2718	3322	4379
8.0	1297	1816	2335	2854	3762
8.5	1117	1564	2011	2458	3240
9.0	966	1353	1740	2126	2803
9.5	840	1176	1512	1848	2436
10.0	733	1027	1320	1614	2127

#### SCAB BRACE DETAIL 1-PLY TRUSS



#### SCAB CONNECTION: 1-PLY TRUSS



+ 0.122" dia. x 3.0" nail driven from front face  
o 0.122" dia. x 3.0" nail driven from back face

Note: Connect scabs to truss along their entire length.

#### NOTES:

1. This detail CANNOT be used to repair damaged webs.
2. Scab and web sizes must be equal (i.e. use a 2x6 scab on a 2x6 web, etc.).
3. Scab & web lumber must be DRY ( $\leq 19\%$  moisture content) at time of installation.
4. Scab must cover minimum 90% of the entire length of web.
5. For 2x12 webs use 2x10 nail pattern, but with 5 rows of nails instead of 4 rows.
6. This detail is for webs loaded axially only (not for axial/bending members).
7. Web and scab lumber shall be SPF No. 2 (or better) grade.
8. Tabulated resistances are for standard load duration only ( $K_D=1.0$ ) and DRY service conditions ( $K_S=1.0$ ). Do not use detail for WET service applications.
9. This detail shall be used only in conjunction with sealed MiTek truss drawings.

PEO  
Certificate No. 10889485

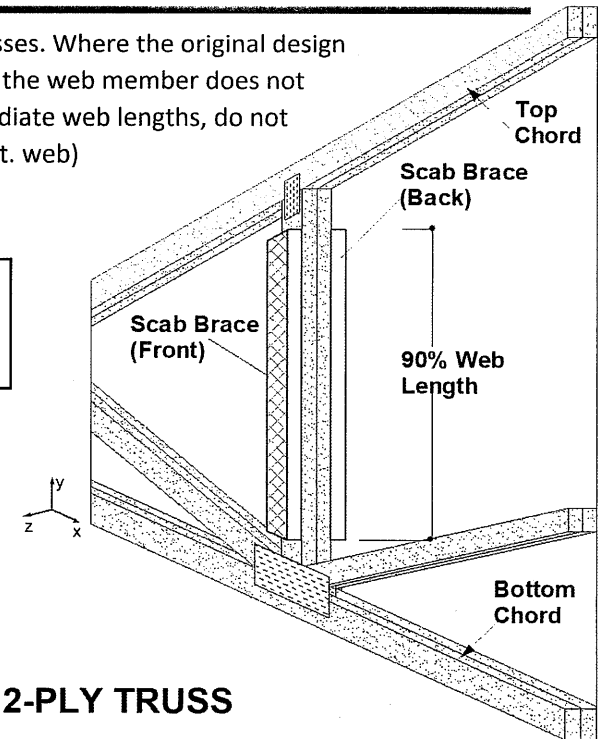


### ALTERNATIVE WEB BRACING SOLUTIONS

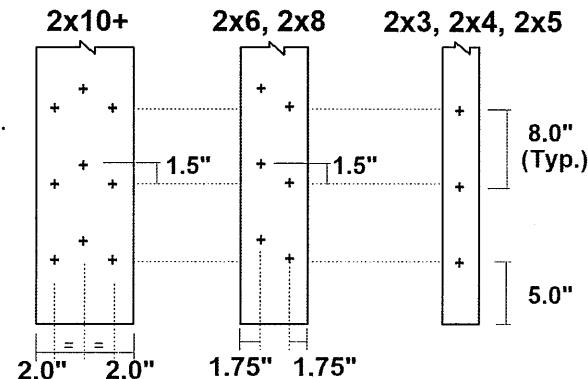
The scab brace detail shown on this page provides an alternative method of bracing compression webs of 2-PLY trusses. Where the original design calls for web bracing, the scab-brace is an acceptable alternative provided that the maximum factored axial force in the web member does not exceed the tabulated values shown below. This detail applies to web lengths of 4.0 Ft. to 10.0 Ft. only. For intermediate web lengths, do not interpolate, use the tabulated value of the longer length. (ex. For a 6.25 ft. web, use the tabulated values for a 6.5 ft. web)

		Maximum factored web force, lbs (2-Ply Truss)				
Web size		2x3	2x4	2x5	2x6	2x8+
4.0		8663	12128	15593	19058	25122
4.5		7588	10623	13659	16694	22006
5.0		6570	9198	11826	14455	19054
5.5		5645	7903	10162	12420	16371
6.0		4830	6762	8694	10626	14007
6.5		4126	5776	7426	9077	11965
7.0		3526	4937	6347	7758	10226
7.5		3020	4228	5436	6644	8758
8.0		2594	3632	4670	5708	7524
8.5		2235	3128	4022	4916	6480
9.0		1933	2706	3479	4253	5606
9.5		1680	2352	3024	3696	4872
10.0		1467	2054	2640	3227	4254

#### SCAB BRACE DETAIL 2-PLY TRUSS



#### SCAB CONNECTION: 2-PLY TRUSS



+ MITEK MIFLK006 Screw @ 8 in. cc

Note: Connect scabs to truss along their entire length.

#### NOTES:

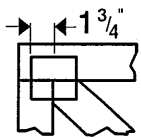
1. This detail **CANNOT** be used to repair damaged webs.
2. Scab sizes must be equal to web size (i.e. use a 2x6 scab on a 2x6 web, etc.).
3. Scabs & web lumber must be DRY ( $\leq 19\%$  moisture content) at time of installation.
4. Scabs must cover 90% of the entire length of web and installed on both faces.
5. This detail shall NOT apply to vertical webs used for girder load transfer.
6. Web & scab lumber to be SPF No. 2 (or better) grade.
7. This detail is for webs loaded axially only (not for axial/bending members).
8. Ensure scabs will not interfere with incoming trusses, prior to using this detail.
9. Tabulated resistances are for standard load duration only ( $K_D=1.0$ ) and DRY service conditions ( $K_S=1.0$ ). Do not use detail for WET service applications.
10. This detail shall be used only in conjunction with sealed MiTek truss drawings.

PEO  
Certificate No. 10889485

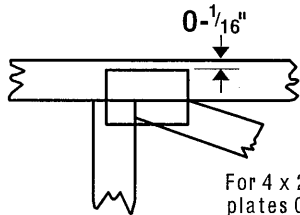


## Symbols

### 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 0-1/16" from outside edge of truss.



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

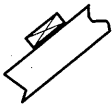
\*Plate location details available in MiTek software or upon request.

### PLATE SIZE

4 x 4

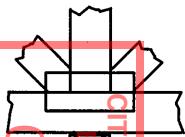
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

### LATERAL BRACING LOCATION



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

### BEARING

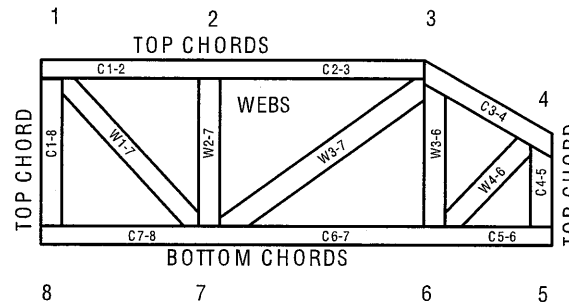
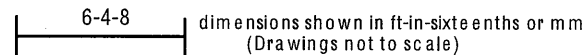


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

### Industry Standards:

TPIC: Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses  
DSB-89: Design Standard for Bracing  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

## Numbering System



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

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

### PRODUCT CODE APPROVALS

C CMC Reports:

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

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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.

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