

DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREENPARK HOMES
 Project: LAMBERT LANE PH.2
 Location: CALEDON
 Model: WOODCROFT 3
 Lot #:
 Elevation: 2 - REAR UPGRADE

Job Track: 50033
 PlanLog: 200625
 Layout ID: 401705
 Ref #
 Page: 1 of 2
 Date: 05/29/2019
 Designer: Jane Gong
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T100 Hip Girder	9/12	35-10-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	354.14 216.67		
	1 2-ply	T100Z Hip Girder	9/12	35-10-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	354.14 216.67		
	2	T2 Hip	9/12	35-10-00	5-01-04	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	299.62 188.33		
	2	T3 Hip	9/12	35-10-00	6-01-04	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	309.43 194.67		
	2	T4 Hip	9/12	35-10-00	7-01-04	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	326.47 209.00		
	2	T5 Hip	9/12	35-10-00	8-01-04	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	322.29 202.00		
	5	T6 Hip	9/12	35-10-00	9-01-04	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	864.46 548.33		
	2	T7 Hip	9/12	35-10-00	10-01-04	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	336.84 212.67		
	3	T8 Common	9/12	19-02-00	8-08-08	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	264.35 167.00		
	1	G8 GABLE	9/12	19-02-00	8-08-08	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	93.55 61.17		
	2	T20 Common	9/12	19-00-00	8-07-12	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	183.09 116.00		
	1	G20 GABLE	9/12	19-00-00	8-07-12	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	92.56 60.67		
	2	PB1 Piggyback	9/12	15-07-05	2-00-00	2 x 4			93.72 61.33		
	1	PB2 Piggyback	9/12	15-07-05	2-11-14	2 x 4			48.71 31.50		

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TOWN OF CALEDON
 BUILDING SECTION
 FILE NO.

DELIVERY SHIPLIST		
 TAMARACK LUMBER INC. ALFA LUMBER GROUP	Lumber Yard: TAMARACK LUMBER Builder: GREENPARK HOMES Project: LAMBERT LANE PH.2 Location: CALEDON Model: WOODCROFT 3 Lot #: Elevation: 2 - REAR UPGRADE	Job Track: 50033 PlanLog: 200625 Layout ID: 401705 Ref # Page: 2 of 2 Date: 05/29/2019 Designer: Jane Gong Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	16	J1 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	289.24 186.67		

TOTAL # TRUSS= 45 TOTAL BFT OF ALL TRUSSES= 2672.68 BFT. TOTAL WEIGHT OF ALL TRSSES 4232.62 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
2	Hardware	LJS26DS	

TOTAL NUMBER OF
ITEMS= 2

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BUILDING SECTION
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1-3-8 0-0 3-5-5 3-5-5-4-0-12 6-5-13 10-7-9 7-3-7 17-11-0 17-11-12 25-2-7 31-2-4-32-4-11 35-10-0 37-1-8

1-3-8 3-5-5 17-1 6-5-13 10-7-9 7-3-7 0-12 7-2-11 3-5-5 17-1 3-5-5 1-3-8

Scale = 1:50.8



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

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

BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS

S-P	2	12	SIDE(0.0)
P-N	2	12	SIDE(183.1)
N-K	2	12	SIDE(0.0)

WEBS : (0.122"x3") SPIRAL NAILS

2x3	1	6	
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GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

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

UNFACTORED REACTIONS

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

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.91 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY
APPLIED.

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

TOTAL LOAD CASES: (4)

DESIGN CRITERIA

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

TOP	CH.	LL	=	29.0	PSF
		DL	=	6.0	PSF
BOT	CH.	LL	=	10.5	PSF
		DL	=	7.0	PSF
TOTAL LOAD				=	52.5 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A
SLOPE OF 8.00/12

ADDIT. USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

- CSA 086-09; CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= $L/360$ (1.19")
 CALCULATED VERT. DEFL.(LL) = $L/999$ (0.36")
 ALLOWABLE DEFL.(TL)= $L/360$ (1.19")
 CALCULATED VERT. DEFL.(TL) = $L/714$ (0.60")

CSI: TC=0.74/1.00 (E-G:1), BC=0.83/1.00 (O-Q:1)
 , WB=0.86/1.00 (H-M:1), SSI=0.30/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

TAIL VALUES

PLATE	GRIP (DRY) (PSI)		SHEAR (PLI)		SECTION (PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1867	788	1987	165

PLATE PLACEMENT TOL = 0,250 inches

PLATE ROTATION TOL = 5.0 Deg.

SI GRIP= 0.88 (Q) (INPUT = 0.90)
SI METAL= 0.88 (P) (INPUT = 1.00)



JOB NAME 401703	TRUSS NAME T1	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.230 S Nov 17 2018 Mitak Industries, Inc. Thu Mar 7 08:08:38 2018 Page 2 ID:guB8GIR_dNo9QvDKo3horvNxsSw-tWlawDrcXiwRj_BekVMW8t6c8JVyh2an1U47YGzdO4V	

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

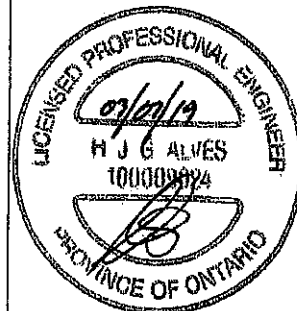
LOADING TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO	LENGTH	FR-TO		
AP-M	0/10685	-38.5	-38.5	0.83 (1)	10.00		
M-AQ	0/4475	-38.5	-38.5	0.42 (1)	10.00		
AQ-AR	0/4475	-38.5	-38.5	0.42 (1)	10.00		
AR-AS	0/4475	-38.5	-38.5	0.42 (1)	10.00		
AS-AT	0/4475	-38.5	-38.5	0.42 (1)	10.00		
AT-L	0/4475	-38.5	-38.5	0.42 (1)	10.00		
L-AU	0/0	-38.5	-38.5	0.15 (2)	10.00		
AU-K	0/0	-38.5	-38.5	0.15 (2)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	3-5-6	-43	-48	--	FRONT	VERT	DEAD	--	--
E	3-5-6	-248	-248	--	FRONT	VERT	SNOW	--	--
H	17-11-12	-198	-198	--	BACK	VERT	TOTAL	--	--
H	32-4-11	-49	-48	--	FRONT	VERT	DEAD	--	--
N	32-4-11	-248	-248	--	FRONT	VERT	SNOW	--	--
O	21-9-4	-75	-95	--	BACK	VERT	TOTAL	--	--
O	17-11-12	-75	-95	--	BACK	VERT	TOTAL	--	--
P	14-0-12	-75	-95	--	BACK	VERT	TOTAL	--	--
T	4-0-12	-217	-217	--	BACK	VERT	TOTAL	--	--
U	8-0-12	-198	-198	--	BACK	VERT	TOTAL	--	--
V	8-0-12	-198	-198	--	BACK	VERT	TOTAL	--	--
W	10-0-12	-198	-198	--	BACK	VERT	TOTAL	--	--
X	12-0-12	-198	-198	--	BACK	VERT	TOTAL	--	--
Y	14-0-12	-198	-198	--	BACK	VERT	TOTAL	--	--
Z	16-0-12	-198	-198	--	BACK	VERT	TOTAL	--	--
AA	18-9-4	-198	-198	--	BACK	VERT	TOTAL	--	--
AB	21-9-4	-198	-198	--	BACK	VERT	TOTAL	--	--
AC	23-9-4	-198	-198	--	BACK	VERT	TOTAL	--	--
AD	25-9-4	-198	-198	--	BACK	VERT	TOTAL	--	--
AE	27-9-4	-198	-198	--	BACK	VERT	TOTAL	--	--
AF	29-9-4	-198	-198	--	BACK	VERT	TOTAL	--	--
AG	31-9-4	-217	-217	--	BACK	VERT	TOTAL	--	--
AH	2-0-12	-75	-95	--	BACK	VERT	TOTAL	--	--
AI	4-0-12	-75	-95	--	BACK	VERT	TOTAL	--	--
AJ	6-0-12	-75	-95	--	BACK	VERT	TOTAL	--	--
AK	8-0-12	-75	-95	--	BACK	VERT	TOTAL	--	--
AL	10-0-12	-75	-95	--	BACK	VERT	TOTAL	--	--
AM	12-0-12	-75	-95	--	BACK	VERT	TOTAL	--	--
AN	14-0-12	-75	-95	--	BACK	VERT	TOTAL	--	--
AO	16-9-4	-75	-95	--	BACK	VERT	TOTAL	--	--
AP	18-9-4	-75	-95	--	BACK	VERT	TOTAL	--	--
AQ	20-9-4	-75	-95	--	BACK	VERT	TOTAL	--	--
AR	22-9-4	-75	-95	--	BACK	VERT	TOTAL	--	--
AS	24-9-4	-75	-95	--	BACK	VERT	TOTAL	--	--
AT	26-9-4	-75	-95	--	BACK	VERT	TOTAL	--	--
AU	28-10-12	-75	-95	--	BACK	VERT	TOTAL	--	--

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DWG NO. TAM 7120 5735
STRUCTURAL
COMPONENT ONLY 2/2

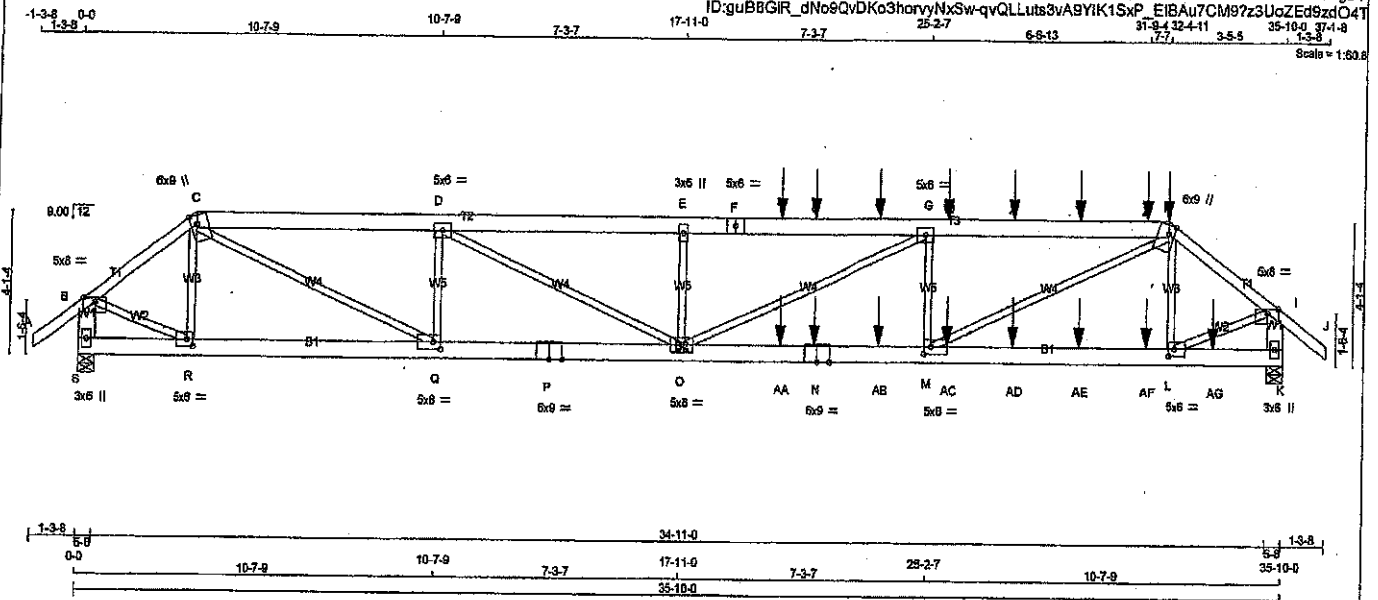
JOB NAME 401703	TRUSS NAME T1Z	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
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Temerack Roof Truss, Burlington

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Scale = 1:50.8



TOTAL WEIGHT = 2 X 177 = 354 lb

LUMBER	N. L. G. A. RULES	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - F	2x6	DRY	No.2	SPF
F - H	2x6	DRY	No.2	SPF
H - J	2x4	DRY	No.2	SPF
S - B	2x6	DRY	No.2	SPF
K - I	2x6	DRY	No.2	SPF
S - P	2x6	DRY	No.2	SPF
P - N	2x6	DRY	No.2	SPF
N - K	2x6	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C 1	12	TOP
H-J 1	12	SIDE(61.0)
C-F 2	12	TOP
F-H 2	12	SIDE(61.0)
S-B 2	12	TOP
K-I 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
S-P 2	12	TOP
P-N 2	12	SIDE(0.0)
N-K 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 in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMWV-p	MT20	5.0	8.0	Edge	
C TTMWV-m	MT20	6.0	9.0	Edge 2.00	
D TMWV-l	MT20	6.0	6.0		
E TMWV-w	MT20	3.0	6.0		
F TS-4	MT20	5.0	6.0		
G TMWV-l	MT20	5.0	6.0		
H TTMWV-m	MT20	6.0	9.0	Edge 2.00	
I TMWV-p	MT20	5.0	8.0	Edge	
K BMV1+p	MT20	3.0	6.0		
L BMWV-l	MT20	5.0	6.0	2.50 2.00	
M BMWV-l	MT20	5.0	8.0	2.50 2.00	
N BS-4	MT20	6.0	9.0		
O BMWVW-l	MT20	5.0	8.0		
P BS-4	MT20	6.0	9.0		
Q BMWVW-l	MT20	5.0	8.0	2.50 2.50	
R BMWV-l	MT20	5.0	6.0	2.50 2.00	
S BMV1+p	MT20	3.0	6.0		

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	DOWN	IN-SX	IN-SX
S	3222	0	5-8	5-8
K	4389	0	5-8	5-8

UNFACTORED REACTIONS

	1ST LOOSE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW
S	2388	1986 / 0
K	3265	1849 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.52 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO					
A-B	0 / 42	-102.1	-102.1	0.08 (1)	10.00
B-C	-3365 / 0	-102.1	-102.1	0.16 (1)	4.84
C-D	-6924 / 0	-102.1	-102.1	0.28 (1)	4.34
D-E	-9114 / 0	-102.1	-102.1	0.37 (1)	3.80
E-F	-8114 / 0	-102.1	-102.1	0.58 (1)	3.52
F-T	-8114 / 0	-102.1	-102.1	0.58 (1)	3.52
T-U	-8114 / 0	-102.1	-102.1	0.58 (1)	3.52
U-V	-8114 / 0	-102.1	-102.1	0.58 (1)	3.52
V-G	-8114 / 0	-102.1	-102.1	0.58 (1)	3.52
G-W	-8688 / 0	-102.1	-102.1	0.57 (1)	3.61
W-X	-8688 / 0	-102.1	-102.1	0.57 (1)	3.61
X-Y	-8688 / 0	-102.1	-102.1	0.57 (1)	3.61
Y-Z	-8688 / 0	-102.1	-102.1	0.57 (1)	3.61
Z-H	-8688 / 0	-102.1	-102.1	0.57 (1)	3.61
H-I	-4725 / 0	-102.1	-102.1	0.21 (1)	4.27
I-J	0 / 42	-102.1	-102.1	0.08 (1)	10.00
S-B	-3222 / 0	0.0	0.0	0.12 (1)	7.72
K-I	-4389 / 0	0.0	0.0	0.16 (1)	6.85



WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO					
R-C	-605 / 0	-102.1	-102.1	0.07 (1)	10.00
L-H	-746 / 22	-102.1	-102.1	0.09 (1)	10.00
B-R	0 / 2845	-102.1	-102.1	0.35 (1)	10.00
L-I	0 / 3998	-102.1	-102.1	0.49 (1)	10.00
M-H	0 / 5473	-102.1	-102.1	0.68 (1)	10.00
C-Q	0 / 4723	-102.1	-102.1	0.58 (1)	10.00
M-G	-1837 / 0	-102.1	-102.1	0.23 (1)	10.00
C-D	-1804 / 0	-102.1	-102.1	0.23 (1)	10.00
O-G	0 / 477	-102.1	-102.1	0.05 (1)	10.00
D-O	0 / 248	-102.1	-102.1	0.20 (1)	10.00
O-E	0 / 248	-102.1	-102.1	0.20 (1)	10.00

FACTORED CONCENTRATED LOADS (LBS)	JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
	H	32-4-11	-43	-48	-	FRONT	VERT	DEAD	-	-
	H	32-4-11	-248	-248	-	FRONT	VERT	SNOW	-	-
	N	21-8-4	-75	-85	-	FRONT	VERT	TOTAL	-	-

DESIGN CRITERIA

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

SPECIFIED LOADS:

TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 PSF

SPACING = 24.8 IN. C/C

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

*** NON STANDARD GIRDER ***

ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012
- CSA 088-08, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F., G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/380 (1.18")
CALCULATED VERT. DEFL.(LL) = L/999 (0.27")
ALLOWABLE DEFL.(TL) = L/380 (1.18")
CALCULATED VERT. DEFL.(TL) = L/958 (0.45")

CSL TC=0.58/1.00 (E-G-1), BC=0.71/1.00 (M-O-1),
WB=0.65/1.00 (H-M-1), SS=0.30/1.00 (G-H-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

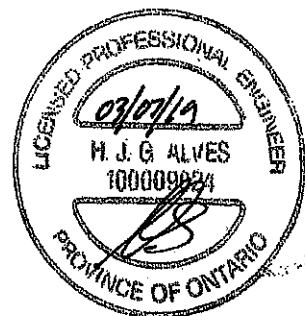
JSI GRIP= 0.75 (O) (INPUT = 0.93)
JSI METAL= 0.75 (P) (INPUT = 1.00)

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK HOMES	DRWG NO.
401703	T1Z	1	2	TRUSS DESC.		
Tamarack Roof Truss, Burlington						
Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Thu Mar 7 08:06:40 2019 Page 2						
ID:quB8GIR dNo9QVDK03horvNxSw-qvQLLuts3vA9YIK1SxP EIBAU7CM97z3UoZEd9zdO4T						

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

FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
T	20-9-4	-198	-198	---	FRONT	VERT	TOTAL	---	---
U	21-9-4	-198	-198	---	FRONT	VERT	TOTAL	---	---
V	23-9-4	-198	-198	---	FRONT	VERT	TOTAL	---	---
W	25-9-4	-198	-198	---	FRONT	VERT	TOTAL	---	---
X	27-9-4	-198	-198	---	FRONT	VERT	TOTAL	---	---
Y	29-9-4	-198	-198	---	FRONT	VERT	TOTAL	---	---
Z	31-9-4	-217	-217	---	FRONT	VERT	TOTAL	---	---
AA	20-9-4	-75	-95	---	FRONT	VERT	TOTAL	---	---
AB	23-9-4	-75	-95	---	FRONT	VERT	TOTAL	---	---
AC	25-9-4	-75	-95	---	FRONT	VERT	TOTAL	---	---
AD	27-9-4	-75	-95	---	FRONT	VERT	TOTAL	---	---
AE	29-9-4	-75	-95	---	FRONT	VERT	TOTAL	---	---
AF	31-9-4	-75	-95	---	FRONT	VERT	TOTAL	---	---
AG	33-9-4	-75	-95	---	FRONT	VERT	TOTAL	---	---



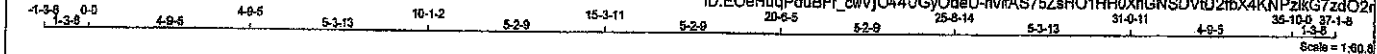
DWG NO. TAM 1705736
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK HOMES	DRWG NO.
401703	T2	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:EOeHuqPduBFr_cwVJO44UGyOdeU-nvifAS75ZsHO1HHXnGNSDVU2fX4KNPzkG7zdO2r



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF	
C - F	2x4	DRY	No.2	SPF	
F - I	2x4	DRY	No.2	SPF	
I - K	2x4	DRY	No.2	SPF	
U - B	2x6	DRY	No.2	SPF	
L - J	2x6	DRY	No.2	SPF	
U - R	2x4	DRY	No.2	SPF	
R - O	2x4	DRY	No.2	SPF	
O - L	2x4	DRY	No.2	SPF	

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	Edge	
C	TTWW+m	MT20	7.0	8.0	Edge	2.50
D	TMWW-l	MT20	4.0	6.0		
E	TMWW-l	MT20	4.0	4.0		
F	TS-l	MT20	3.0	8.0		
G	TMW+w	MT20	2.0	4.0		
H	TMWW-l	MT20	4.0	6.0		
I	TTWW+m	MT20	7.0	8.0	Edge	2.50
J	TMVW-p	MT20	5.0	8.0	Edge	
L	BMV1+p	MT20	3.0	6.0		
M	BMWW-l	MT20	5.0	6.0	2.50	2.00
N	BMWW-l	MT20	5.0	6.0	2.25	2.50
O	BS-l	MT20	4.0	9.0		
P	BMWW-l	MT20	4.0	9.0		
Q	BMWW-l	MT20	4.0	9.0		
R	BS-l	MT20	4.0	9.0		
S	BMWW-l	MT20	5.0	6.0	2.25	2.50
T	BMWW-l	MT20	5.0	6.0	2.50	2.00
U	BMV1+p	MT20	3.0	6.0		

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	VERT	DOWN	HORZ	UPLIFT
U	2680	0	0	5-8
L	2680	0	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS	1ST LCASE	MAX./MIN. COMPONENT REACTIONS
JT	COMBINED	U	COMBINED
U	1979	U	1979
L	1979	L	1979

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.61 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	MAX. FACTORED UPLIFT (LBS)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	MAX. FACTORED UPLIFT (LBS)
FR-TO	A-B	0/42	-102.1	-102.1	0.14 (1)	FR-TO	T-C	-319/29	0.12 (1)	0.00
	B-C	-2762/0	-102.1	-102.1	0.62 (1)		C-S	0/2248	0.51 (1)	0.00
	C-D	-3889/0	-102.1	-102.1	0.73 (1)		S-D	-1310/0	0.50 (1)	0.00
	D-E	-4847/0	-102.1	-102.1	0.86 (1)		D-Q	0/1080	0.24 (1)	0.00
	E-F	-4846/0	-102.1	-102.1	0.72 (1)		Q-E	-517/0	0.20 (1)	0.00
	F-G	-4846/0	-102.1	-102.1	0.72 (1)		E-P	-2/0	0.00 (1)	0.00
	G-H	-4846/0	-102.1	-102.1	0.86 (1)		P-G	-516/0	0.20 (1)	0.00
	H-I	-3889/0	-102.1	-102.1	0.73 (1)		I-P	0/1057	0.24 (1)	0.00
	I-J	-2762/0	-102.1	-102.1	0.62 (1)		P-H	-1310/0	0.50 (1)	0.00
	J-K	0/42	-102.1	-102.1	0.14 (1)		N-I	0/2248	0.51 (1)	0.00
	U-B	-2586/0	0.0	0.0	0.18 (1)		M-I	-319/29	0.12 (1)	0.00
	L-J	-2586/0	0.0	0.0	0.18 (1)		B-T	0/2270	0.51 (1)	0.00
	U-T	0/0	-38.5	-38.5	0.18 (3)		M-J	0/2270	0.51 (1)	0.00
	T-S	0/2199	-38.5	-38.5	0.49 (1)					
	S-R	0/3889	-38.5	-38.5	0.72 (1)					
	R-Q	0/3889	-38.5	-38.5	0.72 (1)					
	Q-P	0/4847	-38.5	-38.5	0.84 (1)					
	P-O	0/3889	-38.5	-38.5	0.71 (1)					
	O-N	0/3889	-38.5	-38.5	0.71 (1)					
	N-M	0/2199	-38.5	-38.5	0.49 (1)					
	M-L	0/0	-38.5	-38.5	0.18 (3)					

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 28.0 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. GIG

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 2010, NBCC 2015

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.30")
ALLOWABLE DEFL.(TL) = L/360 (1.19")
CALCULATED VERT. DEFL.(TL) = L/672 (0.48")

CSI: TC=0.86/1.00 (G-H-I), BC=0.84/1.00 (P-Q-T), WB=0.51/1.00 (B-T-I), SS=0.25/1.00 (H-I-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

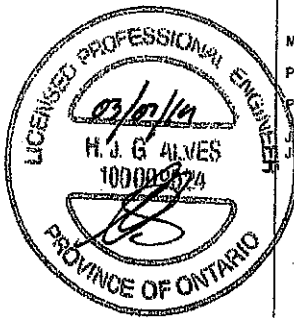
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 789 1987 1856

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

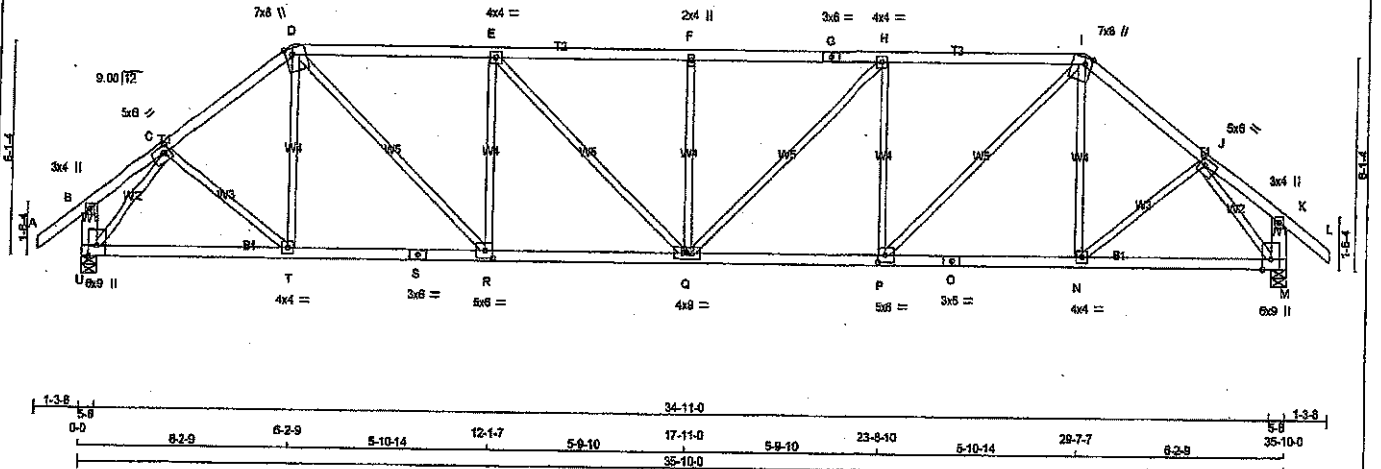
JSI GRIP= 0.89 (N) (INPUT = 0.90)
JSI METAL= 0.80 (O) (INPUT = 1.00)



DRWG NO. TAM T20 5137
STRUCTURAL
COMPONENT ONLY

JOB NAME 401703	TRUSS NAME T3	QUANTITY 2	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.230 S Nov 17 2018 M/Tek Industries, Inc. Thu Mar 7 08:08:25 2018 Page 1
ID:EOeHuqPduBFR_cwVJO44UGyOdeU-F8G1No8J)KAPFeRsC5Vnc?R21R20GUbXedVloZzdO2q
1-3-8 0-0 2-5-12 3-7-9 5-1-5 6-0-2 12-1-7 5-9-10 17-11-0 23-8-10 28-8-11 33-4-4 35-10-8 37-1-8
Scale = 1:50.0



TOTAL WEIGHT = 2 X 155 = 308 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - G	2x4	DRY	No.2	SPF
G - I	2x4	DRY	No.2	SPF
I - L	2x4	DRY	No.2	SPF
U - B	2x6	DRY	No.2	SPF
M - K	2x6	DRY	No.2	SPF
U - S	2x4	DRY	No.2	SPF
S - O	2x4	DRY	No.2	SPF
O - M	2x4	DRY	No.2	SPF

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

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0	
C	TMVW+p	MT20	5.0	6.0	2.25 2.00
D	TTVW+m	MT20	7.0	8.0	Edge 2.50
E	TMVW+p	MT20	4.0	4.0	
F	TMVW+p	MT20	2.0	4.0	
G	TS-t	MT20	3.0	6.0	
H	TMVW+p	MT20	4.0	4.0	
I	TTVW+m	MT20	7.0	8.0	Edge 2.50
J	TMVW+p	MT20	5.0	6.0	2.25 2.00
K	TMV+p	MT20	3.0	4.0	
M	BMVW+p	MT20	6.0	8.0	Edge
N	BMVW+p	MT20	4.0	4.0	
O	BS-t	MT20	3.0	6.0	
P	BMVW+p	MT20	5.0	6.0	2.50 2.75
Q	BMVW+p	MT20	4.0	4.0	
R	BMVW+p	MT20	5.0	6.0	2.50 2.75
S	BS-t	MT20	3.0	6.0	
T	BMVW+p	MT20	4.0	4.0	
U	BMVW+p	MT20	6.0	8.0	Edge

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	DOWN	HORZ	UPLIFT	BRG	BRG
M	2660	0	2660	0	0	5-8	5-8	5-8	5-8
U	2660	0	2660	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
M	1979	1120 / 0	376 / 0	0 / 0	0 / 0	482 / 0	0 / 0
U	1979	1120 / 0	376 / 0	0 / 0	0 / 0	482 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.70 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. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)	
FR-TO				FR-TO			
A-B	0 / 42	-102.1	-102.1 0.14 (1)	10.00	T-D	-13 / 160	0.04 (3)
B-C	0 / 26	-102.1	-102.1 0.14 (1)	10.00	N-I	-13 / 160	0.04 (3)
C-D	-2812 / 0	-102.1	-102.1 0.31 (1)	3.69	C-T	0 / 458	0.10 (1)
D-E	-3547 / 0	-102.1	-102.1 0.88 (1)	2.91	D-R	0 / 1838	0.41 (1)
E-F	-3940 / 0	-102.1	-102.1 0.98 (1)	2.70	R-E	-1066 / 0	0.62 (1)
F-G	-3940 / 0	-102.1	-102.1 0.98 (1)	2.70	Q-F	0 / 553	0.12 (1)
G-H	-3940 / 0	-102.1	-102.1 0.98 (1)	2.70	Q-F	-551 / 0	0.32 (1)
H-I	-3547 / 0	-102.1	-102.1 0.88 (1)	2.91	Q-H	0 / 553	0.12 (1)
I-J	-2812 / 0	-102.1	-102.1 0.31 (1)	3.69	P-H	-1066 / 0	0.62 (1)
J-K	0 / 26	-102.1	-102.1 0.14 (1)	10.00	P-I	0 / 1838	0.41 (1)
K-L	0 / 42	-102.1	-102.1 0.14 (1)	10.00	N-J	0 / 458	0.10 (1)
U-B	-219 / 0	0.0	0.0 0.01 (1)	7.81	U-C	-2999 / 0	0.70 (1)
M-K	-219 / 0	0.0	0.0 0.01 (1)	7.81	J-M	-2699 / 0	0.70 (1)
U-T	0 / 1888	-38.5	-38.5 0.51 (2)	10.00			
T-S	0 / 2231	-38.5	-38.5 0.57 (2)	10.00			
S-R	0 / 2231	-38.5	-38.5 0.57 (2)	10.00			
R-Q	0 / 3547	-38.5	-38.5 0.70 (1)	10.00			
Q-P	0 / 3547	-38.5	-38.5 0.70 (1)	10.00			
P-O	0 / 2231	-38.5	-38.5 0.57 (2)	10.00			
O-N	0 / 2231	-38.5	-38.5 0.57 (2)	10.00			
N-M	0 / 1888	-38.5	-38.5 0.51 (2)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2010, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.19")
CALCULATED VERT. DEFL. (LL) = L/999 (0.22")
ALLOWABLE VERT. DEFL. (TL) = L/360 (1.19")
CALCULATED VERT. DEFL. (TL) = L/999 (0.37")

CS1: TC=0.88/1.00 (E-F-1), BC=0.70/1.00 (Q-R-1), WB=0.70/1.00 (J-M-1), SS=0.28/1.00 (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.

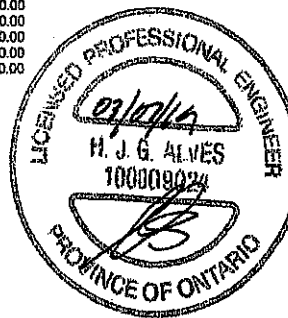
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSB) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1657 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

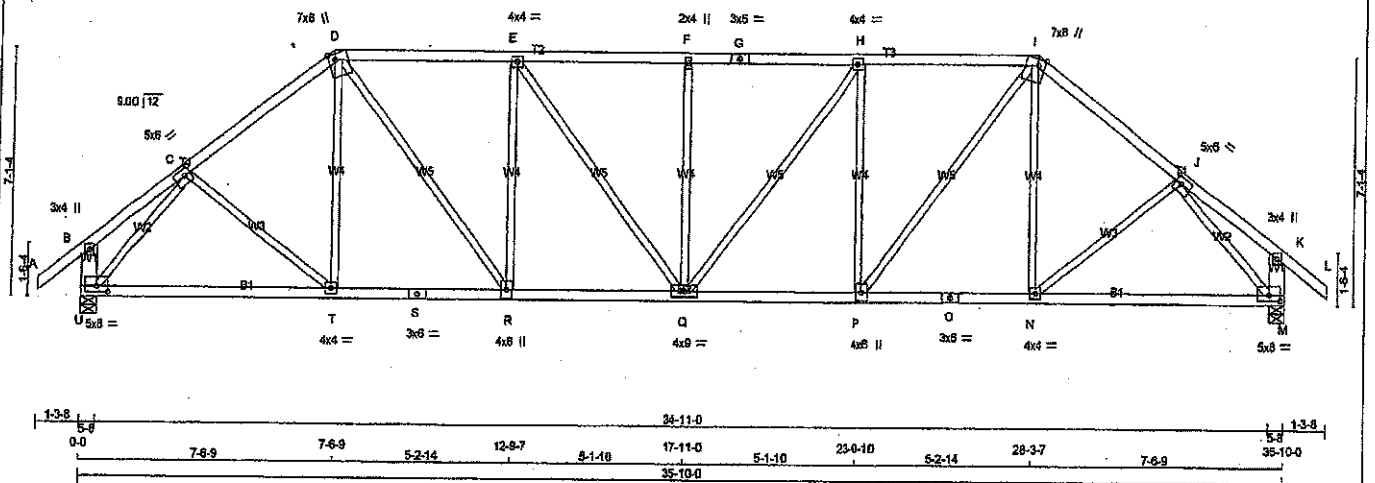
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.88 (C) (INPUT = 0.90)
JSI METAL= 0.78 (J) (INPUT = 1.00)

DWG NO. TAM 77905138
STRUCTURAL
COMPONENT ONLY



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK HOMES	DRWG NO.
401703	T4	2	1	TRUSS DESC.		
Tamarack Roof Truss, Burlington Version 6.230 S Nov 17 2018 Mitek Industries, Inc. Thu Mar 7 08:05:25 2018 Page 1 ID:EOeHuqPduBFR_cwVjO44UgyOdeU-F6G1N08lKAPFeRsC5nc?R25UR2lGP9XedVloZzdQ2Q -1-3-8 0-0 3-1-12 7-5-5 12-9-7 17-11-0 22-0-10 28-4-11 32-8-4 35-10-0 37-1-8 1-3-8 3-1-12 4-3-9 5-4-2 5-1-10 5-1-10 8-4-2 4-3-9 3-1-12 1-3-8 Scale = 1/80.0						



TOTAL WEIGHT = 2 X 163 = 326 lb

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR.
A - D	2x4	DRY	No.2	SFF
D - G	2x4	DRY	No.2	SFF
G - I	2x4	DRY	No.2	SFF
I - L	2x4	DRY	No.2	SFF
L - B	2x6	DRY	No.2	SFF
M - K	2x6	DRY	No.2	SFF
U - S	2x4	DRY	No.2	SFF
S - O	2x4	DRY	No.2	SFF
O - M	2x4	DRY	No.2	SFF

ALL WEBS 2x3 DRY
EXCEPT

DRY: SEASONED LUMBER.

JT	TYPE	PLATES	W	LEN	Y	X
B	TMMV+p	MT20	3.0	4.0		
C	TMMVW1	MT20	5.0	6.0	2.25	2.25
D	TTMMV+m	MT20	7.0	8.0	Edge	2.50
E	TMMVW1	MT20	4.0	4.0		
F	TMMV+w	MT20	2.0	4.0		
G	TS-1	MT20	3.0	6.0		
H	TMMW1	MT20	4.0	4.0		
I	TTMMV+m	MT20	7.0	8.0	Edge	2.50
J	TMMW1	MT20	5.0	6.0	2.25	2.25
K	TMMV+p	MT20	3.0	4.0		
M	BMMVW1	MT20	5.0	8.0	2.00	4.00
N	BMMVW1	MT20	4.0	4.0		
O	BS-1	MT20	3.0	6.0		
P	BMMVW1	MT20	4.0	6.0		
Q	BMMVW1	MT20	4.0	6.0		
R	BMMVW1	MT20	4.0	6.0		
S	BS-1	MT20	3.0	6.0		
T	BMMVW1	MT20	4.0	4.0		
U	BMMVW1	MT20	5.0	6.0	2.00	4.00

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
M	2660	0	2660	0	0	5-8	5-8
U	2660	0	2660	0	0	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
M	1979	1120 / 0	376 / 0	0 / 0	0 / 0	482 / 0	0 / 0
U	1979	1120 / 0	376 / 0	0 / 0	0 / 0	482 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.23 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					WEBBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1 MAX (PLF)	CS1 (MAX)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CS1 (LC)	
FR-TO		FROM TO				FR-TO			
A-B	0/142	-102.1	-102.1	0.14 (1)	10.00	T-D	0/246	0.06 (3)	
B-C	0/332	-102.1	-102.1	0.23 (1)	10.00	N-I	0/246	0.06 (3)	
C-D	-2797/0	-102.1	-102.1	0.40 (1)	3.93	C-T	0/277	0.09 (2)	
D-E	-3085/0	-102.1	-102.1	0.62 (1)	3.39	R-R	0/1413	0.32 (1)	
E-F	-3352/0	-102.1	-102.1	0.85 (1)	3.23	R-E	-950/0	0.83 (1)	
F-G	-3352/0	-102.1	-102.1	0.65 (1)	3.23	E-Q	0/440	0.10 (1)	
G-H	-3352/0	-102.1	-102.1	0.65 (1)	3.23	Q-F	-487/0	0.43 (1)	
H-I	-3085/0	-102.1	-102.1	0.82 (1)	3.39	Q-H	0/440	0.10 (1)	
I-J	-2797/0	-102.1	-102.1	0.40 (1)	3.93	P-H	-950/0	0.83 (1)	
J-K	0/332	-102.1	-102.1	0.23 (1)	10.00	N-I	0/1413	0.32 (1)	
K-L	0/42	-102.1	-102.1	0.14 (1)	10.00	P-J	0/277	0.08 (2)	
U-B	-242/0	0.0	0.0	0.02 (1)	7.81	U-C	-3053/0	0.99 (1)	
M-K	-242/0	0.0	0.0	0.02 (1)	7.81	J-M	-3053/0	0.99 (1)	
U-T	0/2009	-38.5	-38.5	0.62 (2)	10.00				
T-S	0/2218	-38.5	-38.5	0.65 (2)	10.00				
S-R	0/2218	-38.5	-38.5	0.85 (2)	10.00				
R-Q	0/3085	-38.5	-38.5	0.61 (1)	10.00				
Q-P	0/3085	-38.5	-38.5	0.81 (1)	10.00				
P-O	0/2218	-38.5	-38.5	0.65 (2)	10.00				
O-N	0/2218	-38.5	-38.5	0.85 (2)	10.00				
N-M	0/2009	-38.5	-38.5	0.62 (2)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	29.0	PSF
	DL =	8.0	PSF
BOT CH.	LL =	10.5	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	52.5	PSF

SPACING = 24.0 IN. G/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 2010, NBCC 2015

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.18")
ALLOWABLE DEFL.(TL)= L/360 (1.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.30")

CSI: TC=0.65/1.00 (F-H:1), BC=0.65/1.00 (R-T:2),
WB=0.99/1.00 (J-M:1), SSI=0.25/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

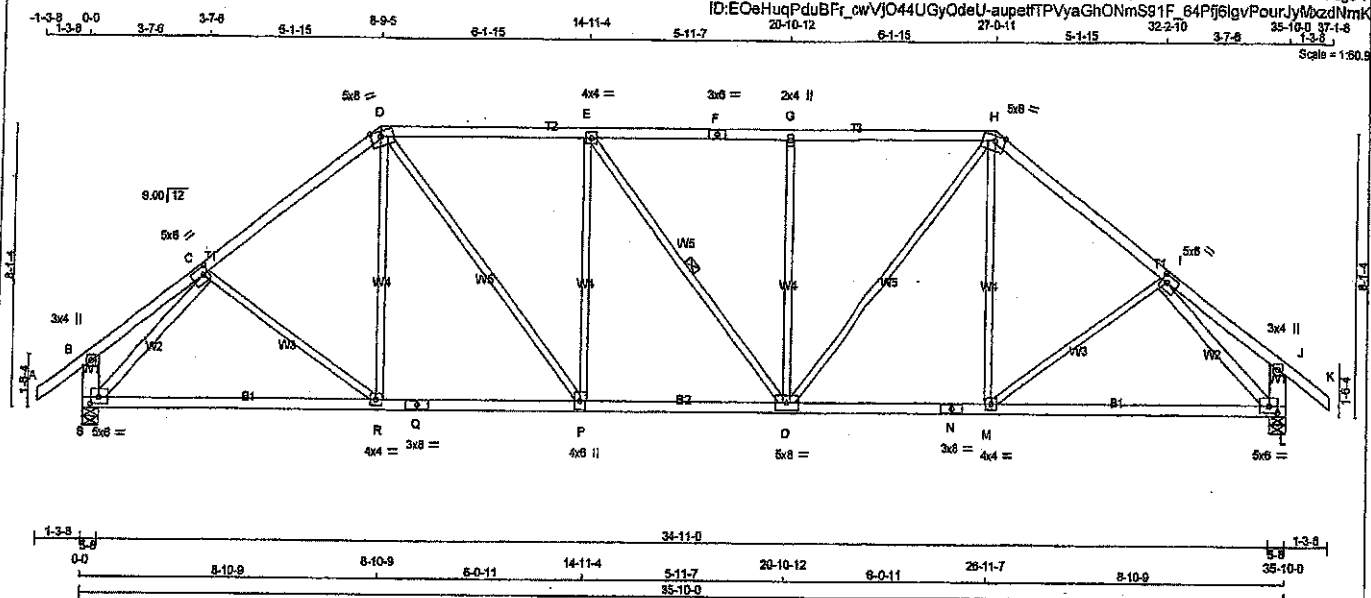
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.80 (M) (INPUT = 0.80)
JSI METAL= 0.76 (J) (INPUT = 1.00)

DWG NO. TAM 77405139
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
401706	T5	2	1	GREENPARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Thu Mar 7 08:28:09 2019 Page 1
ID:EOeHuqPduBFr_cwVJO44UGyOdeU-aupetfTPVyaGhONmS91F_64Pf6lgyPourJyMzdNmK



TOTAL WEIGHT = 2 X 184 = 328 lb

LUMBER	SIZE	DRY	LUMBER	DESCR.
N. L. G. A. RULES				
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	2x6	DRY	No.2	SPF
L - J	2x6	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 - G	2x4	DRY	No.2	SPF
I - L	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMVW+1	MT20	5.0	8.0	2.50	2.00
D	TTVW+m	MT20	5.0	8.0	Edge	3.50
E	TMVW+1	MT20	4.0	4.0		
F	TS-t	MT20	3.0	8.0		
G	TMVW+w	MT20	2.0	4.0		
H	TTVW+m	MT20	5.0	8.0	Edge	3.50
I	TMVW+1	MT20	5.0	6.0	2.50	2.00
J	TMV+p	MT20	3.0	4.0		
L	BMVW+1	MT20	5.0	6.0	2.25	2.75
M	BMVW+1	MT20	4.0	4.0		
N	BS-t	MT20	3.0	8.0		
O	BMVW+1	MT20	5.0	8.0		
P	BMVW+1	MT20	4.0	6.0		
Q	BS-t	MT20	3.0	8.0		
R	BMVW+1	MT20	4.0	4.0		
S	BMVW+1	MT20	5.0	8.0	2.25	2.75

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

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

BUILDING DESIGNER

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	HORIZ	UPLIFT
S	2660	0	2660	0
L	2660	0	2660	0

UNFACTORED REACTIONS

1ST CASE	MAX	MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
S	1979	1120 / 0	376 / 0
L	1979	1120 / 0	376 / 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 = 3.33 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 LC1 (PLF)	MAX. UNBRACED LENGTH FR-TO (LC)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO	
A-B	0 / 42	-102.1	-102.1 0.14 (1)	R-D	0 / 352
B-C	0 / 43	-102.1	-102.1 0.35 (1)	M-H	0 / 353
C-D	-2752 / 0	-102.1	-102.1 0.59 (1)	P-E	-871 / 0
D-E	-2964 / 0	-102.1	-102.1 0.78 (1)	O-G	-670 / 0
E-F	-2883 / 0	-102.1	-102.1 0.77 (1)	C-R	0 / 179
F-G	-2883 / 0	-102.1	-102.1 0.77 (1)	D-P	0 / 1109
G-H	-2883 / 0	-102.1	-102.1 0.77 (1)	E-O	-2 / 0
H-I	-2732 / 0	-102.1	-102.1 0.59 (1)	O-H	0 / 1108
I-J	0 / 43	-102.1	-102.1 0.35 (1)	M-I	0 / 179
J-K	0 / 42	-102.1	-102.1 0.14 (1)	S-C	-3082 / 0
S-B	-249 / 0	0.0	0.0 0.02 (1)	I-L	-3082 / 0
L-J	-249 / 0	0.0	0.0 0.02 (1)		
S-R	0 / 2083	-38.5	-38.5 0.76 (2)		
R-Q	0 / 2179	-38.5	-38.5 0.76 (2)		
Q-P	0 / 2179	-38.5	-38.5 0.76 (2)		
P-O	0 / 2884	-38.5	-38.5 0.80 (1)		
O-N	0 / 2179	-38.5	-38.5 0.76 (2)		
N-M	0 / 2179	-38.5	-38.5 0.76 (2)		
M-L	0 / 2083	-38.5	-38.5 0.76 (2)		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 28.0	PSF
DL = 6.0	PSF	
BOT CH.	LL = 10.5	PSF
DL = 7.0	PSF	
TOTAL LOAD = 62.5	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 2010, NBC 2015

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

(85 % OF 37.6 P.S.F., G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (1.19")
CALCULATED VERT. DEFL.(LL) = $L/989$ (0.28")
ALLOWABLE DEFL.(TL) = $L/360$ (1.19")
CALCULATED VERT. DEFL.(TL) = $L/981$ (0.44")

CSI: TO=0.78/1.00 (D-E:1), BC=0.78/1.00 (M-O:2), WB=0.91/1.00 (L-1), SS=0.29/1.00 (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.

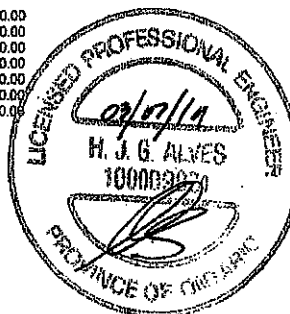
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1887 1656

PLATE PLACEMENT TOL = 0.250 Inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.90 (I) (INPUT = 0.90)
JSI METAL=0.99 (Q) (INPUT = 1.00)

DRWG NO. TAM 7905140
STRUCTURAL
COMPONENT ONLY

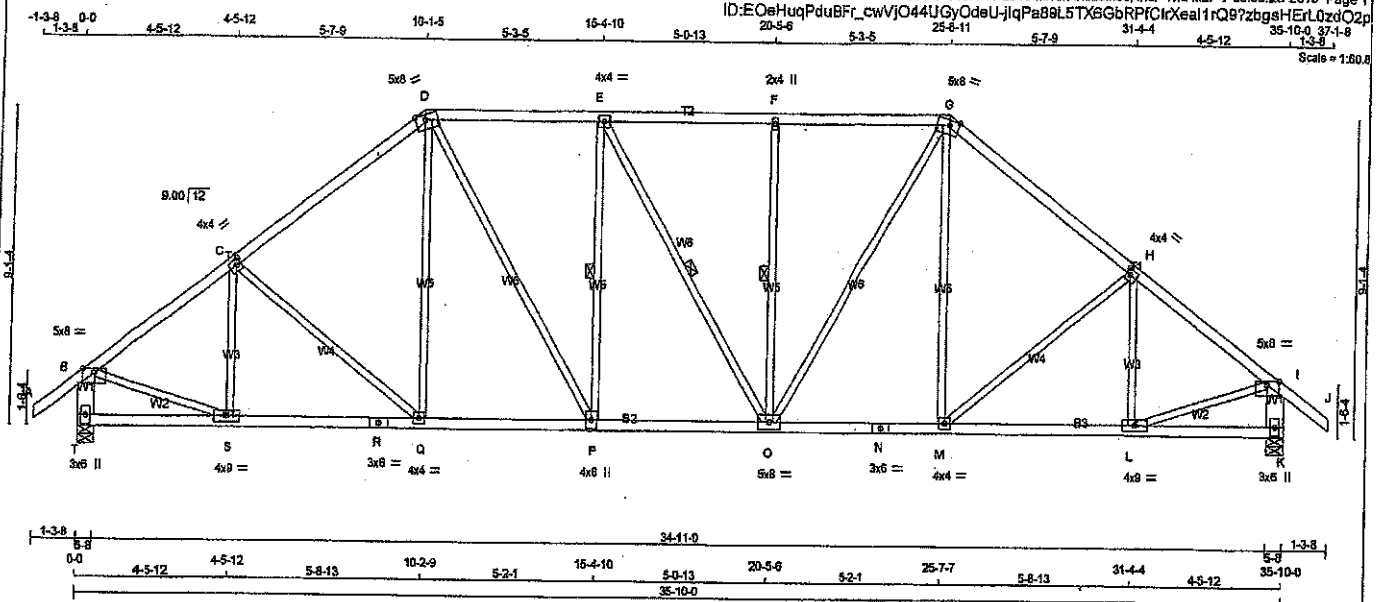


JOB NAME 401703	TRUSS NAME T6	QUANTITY 5	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
TRUSS DESC.					

Tamercat Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Thu Mar 7 08:08:26 2019 Page 1

ID:EOeHuqPduBFr_cwVJO44UjGyOdeU-jlqPa89L5TXG6bRPfCkrXea1trQ97zbgshErl0zdO2p



TOTAL WEIGHT = 5 X 173 = 864 lb

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVVW-p	MT20	5.0	8.0	Edge
C	TMVVW-l	MT20	4.0	4.0	2.00 1.50
D	TMVVW-m	MT20	5.0	8.0	Edge 3.50
E	TMVVW-l	MT20	4.0	4.0	
F	TMVVW-w	MT20	2.0	4.0	
G	TTWWW-m	MT20	5.0	8.0	Edge 3.50
H	TMVVW-l	MT20	4.0	4.0	2.00 1.50
I	TMVVW-p	MT20	5.0	8.0	Edge
K	BMV1+p	MT20	3.0	6.0	
L	BMVVW-l	MT20	4.0	9.0	
M	BMVVW-l	MT20	4.0	4.0	
N	BS-t	MT20	3.0	6.0	
O	BMVVWVW-t	MT20	5.0	8.0	
P	BMVVWVW-t	MT20	4.0	6.0	
Q	BMVVWVW-t	MT20	4.0	4.0	
R	BS-t	MT20	3.0	6.0	
S	BMVVWVW-l	MT20	4.0	9.0	
T	BMV1+p	MT20	3.0	6.0	

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

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

BEARINGS					
JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG	
T	2680 0	2680 0	0 0	5-8	5-8
K	2680 0	2680 0	0 0	5-8	5-8

UNFACTORED REACTIONS					
JT	1ST CASE	MAX MIN. COMPONENT REACTIONS			
T	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
T	1979	1120 / 0	376 / 0	0 / 0	482 / 0
K	1979	1120 / 0	376 / 0	0 / 0	482 / 0

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

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

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

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

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 LC1 (PLF)	MAX. FACTORED VERT. LOAD LC1 (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO	
A-B	0 / 42	-102.1 -102.1	0.14 (1)	Q-D	0 / 385
B-C	-2778 / 0	-102.1 -102.1	0.46 (1)	M-G	0 / 387
C-D	-2648 / 0	-102.1 -102.1	0.53 (1)	S-C	-390 / 5
D-E	-2547 / 0	-102.1 -102.1	0.40 (1)	P-E	-570 / 0
E-F	-2546 / 0	-102.1 -102.1	0.39 (1)	O-F	-569 / 0
F-G	-2546 / 0	-102.1 -102.1	0.40 (1)	L-H	-390 / 5
G-H	-2648 / 0	-102.1 -102.1	0.54 (1)	C-Q	-216 / 0
H-I	-2778 / 0	-102.1 -102.1	0.46 (1)	D-P	0 / 891
I-J	0 / 42	-102.1 -102.1	0.14 (1)	E-O	-3 / 0
T-B	-2592 / 0	0.0 0.0	0.18 (1)	O-G	0 / 887
K-I	-2592 / 0	0.0 0.0	0.18 (1)	M-H	-215 / 0
T-S	0 / 0	-38.5 -38.5	0.17 (3)	B-S	0 / 2335
S-R	0 / 2257	-38.5 -38.5	0.50 (1)	L-I	0 / 2335
R-Q	0 / 2257	-38.5 -38.5	0.50 (1)		
Q-P	0 / 2092	-38.5 -38.5	0.47 (1)		
P-O	0 / 2546	-38.5 -38.5	0.51 (1)		
O-N	0 / 2092	-38.5 -38.5	0.47 (1)		
N-M	0 / 2092	-38.5 -38.5	0.47 (1)		
M-L	0 / 2257	-38.5 -38.5	0.50 (1)		
L-K	0 / 0	-38.5 -38.5	0.17 (3)		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 28.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 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 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCSB 2018, CBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.19")
CALCULATED VERT. DEFL. (LL) = L/989 (0.13")
ALLOWABLE DEFL. (TL) = L/360 (1.19")
CALCULATED VERT. DEFL. (TL) = L/989 (0.22")

CS1: TC=0.54/1.00 (G-H-1), BC=0.51/1.00 (O-P-1), WB=0.53/1.00 (B-S-1), SS1=0.25/1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

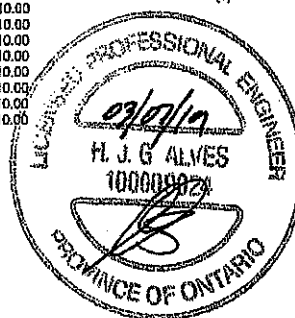
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

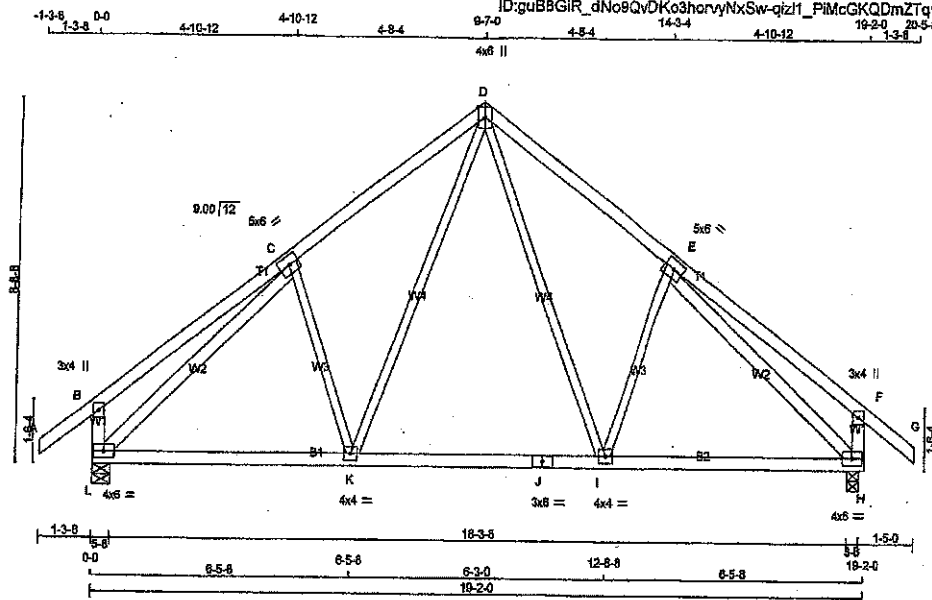
JSI GRIP= 0.86 (B) (INPUT = 0.90)
JSI METAL= 0.68 (R) (INPUT = 1.00)

RECEIVED
JUN 10 2019
TOWN OF BALETON
BUILDING DEPARTMENT
FILE NO.



DRWG NO. TAM **T1405141**
STRUCTURAL
COMPONENT ONLY

JOB NAME 401706	TRUSS NAME T8	QUANTITY 2	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Thu Mar 7 08:29:26 2019 Page 1		ID:guB8GIR_dNo8QvDKo3horvNxsW-qiz1_PIMcGKQDmZTqvJbLmgRmUeDIO7bJSXa_zdNI7	
		14-3-4 19-2-0 20-5-8		1-3-8 4-10-12 4-10-12 4-8-4 9-7-0 4-8-4 4-10-12 1-3-8	
		4x6 II		Scale = 1:50.6	

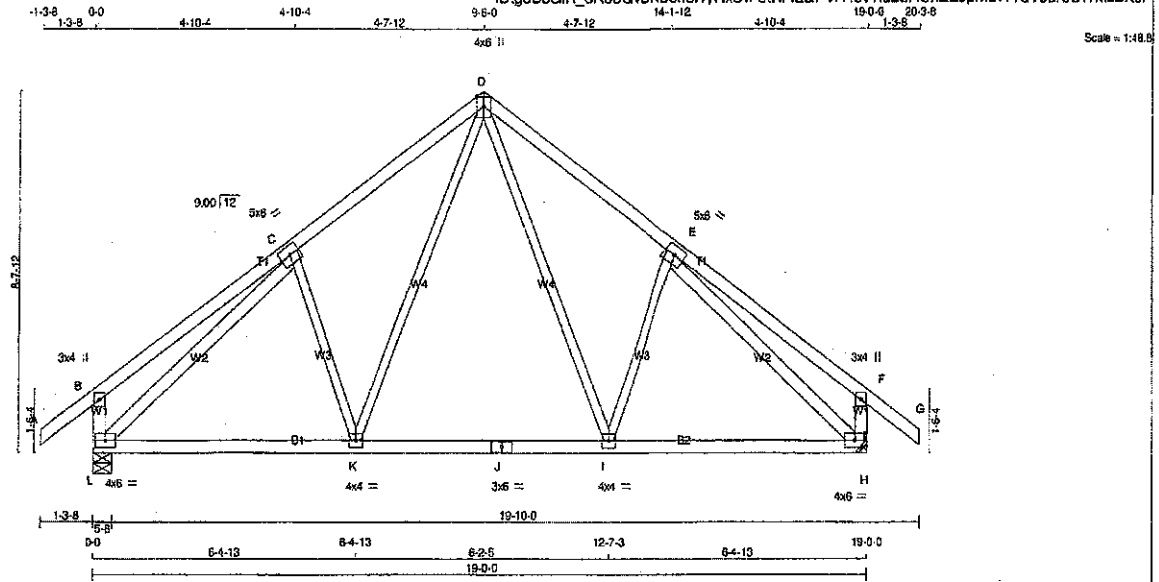


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
401705	T20	2	1	GREENPARK HOMES	
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.300 S May 10 2019 MTek Industries, Inc. Wed May 29 21:45:18 2019 Page 1

ID:guB8GfR_dNo9QvDKo3horyNkSw-3tHFLGPVA4ov7IuzCACnEE9pMzW1d18urOUWMzBX5F



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

TOTAL WEIGHT = 2 X 92 = 183 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

PLATE	TYPE	PLATES	W	LEN	Y	X
B	TMV-p	MT20	3.0	4.0		
C	TMWW-1	MT20	5.0	6.0		
D	TMWW-p	MT20	4.0	6.0	Edge	
E	TMWW-1	MT20	5.0	6.0		
F	TMV-p	MT20	3.0	4.0		
H	BMWW-1	MT20	4.0	6.0		
I	BMWW-1	MT20	4.0	4.0		
J	BS-1	MT20	3.0	6.0		
K	BMWW-1	MT20	4.0	4.0		
L	BMWW-1	MT20	4.0	6.0		

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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	HORIZ	UPLIFT
L	1477	0	1477	0
H	1477	0	1477	0

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

UNFACTORED REACTIONS

1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT COMBINED						
L	1085	632 / 0	200 / 0	0 / 0	264 / 0	0 / 0
H	1085	632 / 0	200 / 0	0 / 0	264 / 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 = 5.43 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	MAX. FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	FORCE (LBS)
FR-TO		FROM	TO	FR-TO	
A-B	0 / 42	-102.1	-102.1	0.14 (1)	10.00
B-C	0 / 35	-102.1	-102.1	0.38 (1)	10.00
C-D	-1227 / 0	-102.1	-102.1	0.31 (1)	5.43
D-E	-1227 / 0	-102.1	-102.1	0.31 (1)	5.43
E-F	0 / 35	-102.1	-102.1	0.38 (1)	10.00
F-G	0 / 42	-102.1	-102.1	0.14 (1)	10.00
L-B	-323 / 0	0.0	0.0	0.03 (1)	7.81
H-F	-323 / 0	0.0	0.0	0.03 (1)	7.81
L-K	0 / 1049	-38.5	-38.5	0.40 (2)	10.00
K-J	0 / 758	-38.5	-38.5	0.36 (2)	10.00
J-I	0 / 758	-38.5	-38.5	0.36 (2)	10.00
I-H	0 / 1049	-38.5	-38.5	0.40 (2)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCG 2010, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.63")
CALCULATED VERT. DEFL. (LL) = L/989 (0.07")
ALLOWABLE DEFL. (TL) = L/360 (0.63")
CALCULATED VERT. DEFL. (TL) = L/989 (0.12")

CSI: TC=0.38/1.00 (B-C-1), BC=0.40/1.00 (H-2), WB=0.85/1.00 (C-L-1), SS=0.19/1.00 (C-D-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

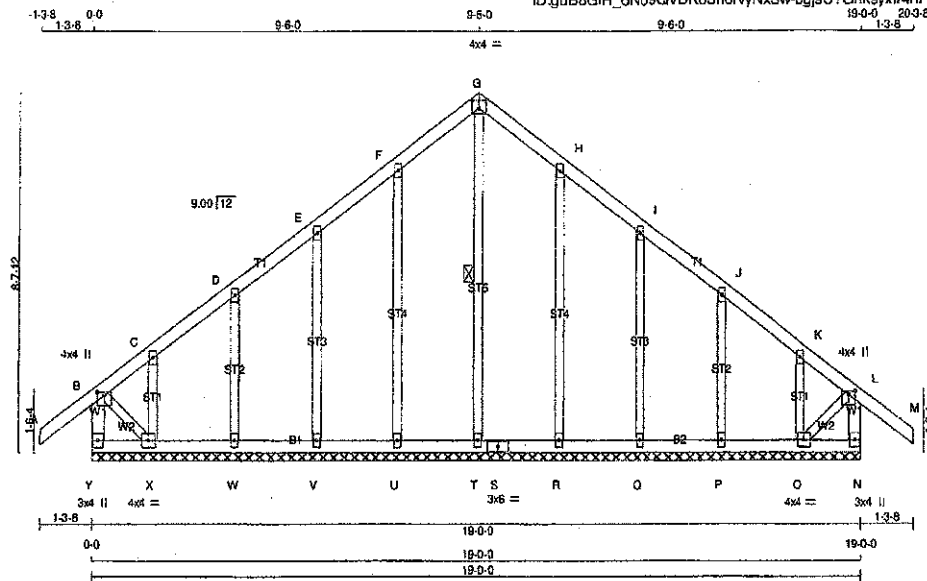
JSI GRIP = 0.82 (E) (INPUT = 0.90)
JSI METAL = 0.99 (E) (INPUT = 1.00)



Structural component only
DWG# T-1913868

JOB NAME 401705	TRUSS NAME G20	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.300 S May 10 2019 MTek Industries, Inc. Wed May 29 21:45:17 2019 Page 1
ID:guB8Gir_dNo9QvDKo3horvyNxSw-bgisU?Gnksyxl4hPVtE1h1nyj8IKs_fBHw_vzBX5G



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

TOTAL WEIGHT = 93 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
Y - B	2x4	DRY No.2
A - G	2x4	DRY No.2
G - M	2x4	DRY No.2
N - L	2x4	DRY No.2
Y - S	2x4	DRY No.2
S - N	2x4	DRY No.2

ALL WEBS 2x3 DRY No.2

ALL GABLE WEBS 2x3 DRY No.2

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2'-0" O.C.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMW+p	MT20	4.0	4.0	1.00	2.00
C, D, E, F, H, I, J, K					
C TMW+w	MT20	2.0	4.0		
G TTW+p	MT20	4.0	4.0	2.25	2.00
L TMW+p	MT20	4.0	4.0	1.00	2.00
N BMW1+p	MT20	3.0	4.0		
O BMW1+t	MT20	4.0	4.0		
P, Q, R, T, U, V, W					
P BMW1+w	MT20	2.0	4.0		
S BS4	MT20	3.0	8.0		
X BMW1+t	MT20	4.0	4.0		
Y BMW1+p	MT20	3.0	4.0		

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
Y-B	318 / 0	0.0 0.0	0.03 (1)	T-G	-152 / 0		0.07 (1)
A-B	0 / 42	-102.1 -102.1	0.14 (1)	U-F	-233 / 0		0.21 (1)
B-C	-72 / 0	-102.1 -102.1	0.13 (1)	V-E	-192 / 0		0.09 (1)
C-D	-23 / 0	-102.1 -102.1	0.05 (1)	W-D	-218 / 0		0.06 (1)
D-E	-27 / 0	-102.1 -102.1	0.05 (1)	X-C	-97 / 0		0.02 (1)
E-F	-17 / 0	-102.1 -102.1	0.06 (1)	R-H	-233 / 0		0.21 (1)
F-G	-29 / 0	-102.1 -102.1	0.06 (1)	Q-I	-192 / 0		0.09 (1)
G-H	-29 / 0	-102.1 -102.1	0.06 (1)	P-J	-218 / 0		0.06 (1)
H-I	-17 / 0	-102.1 -102.1	0.06 (1)	O-K	-97 / 0		0.02 (1)
I-J	-27 / 0	-102.1 -102.1	0.05 (1)	B-X	0 / 37		0.01 (1)
J-K	-23 / 0	-102.1 -102.1	0.05 (1)	C-L	0 / 37		0.01 (1)
K-L	-72 / 0	-102.1 -102.1	0.13 (1)				
L-M	0 / 42	-102.1 -102.1	0.14 (1)				
N-L	318 / 0	0.0 0.0	0.03 (1)				
Y-X	0 / 0	-38.5 -38.5	0.02 (3)				
X-W	0 / 25	-38.5 -38.5	0.03 (2)				
W-V	0 / 20	-38.5 -38.5	0.02 (2)				
V-U	0 / 17	-38.5 -38.5	0.02 (2)				
U-T	0 / 14	-38.5 -38.5	0.02 (3)				
T-S	0 / 14	-38.5 -38.5	0.02 (3)				
S-R	0 / 14	-38.5 -38.5	0.02 (3)				
R-Q	0 / 17	-38.5 -38.5	0.02 (2)				
Q-P	0 / 20	-38.5 -38.5	0.02 (2)				
P-O	0 / 25	-38.5 -38.5	0.03 (2)				
O-N	0 / 0	-38.5 -38.5	0.02 (3)				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 29.0 PSF
DL	= 8.0 PSF
BOT CH. LL	= 10.5 PSF
DL	= 7.0 PSF
TOTAL LOAD	= 52.5 PSF

SPACING = 24.0 IN. OC

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

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

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

(55 % OF 37.5 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CS1: TC=0.14/1.00 (L:M:1), BC=0.09/1.00 (W:X:2),

WB=0.21/1.00 (F:U:1), SS=0.09/1.00 (L:M:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

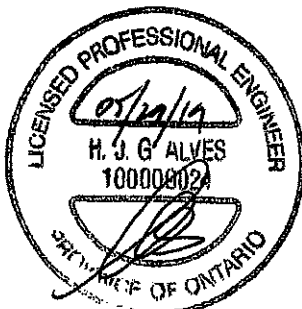
NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

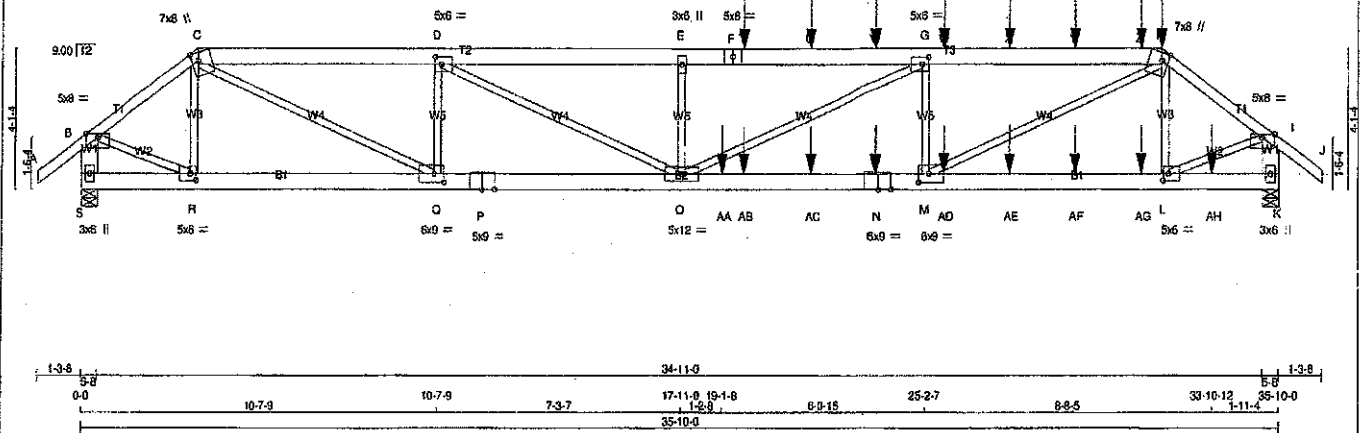
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.50 (G) (INPUT = 0.80)
JSI METAL= 0.12 (H) (INPUT = 1.00)



Structural component only
DWG# T-1913867

JOB NAME 401705	TRUSS NAME T100	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					
Version 8.300 S May 10 2019 Mitek Industries, Inc. Wed May 29 21:45:20 2019 Page 1					
ID: guB8GIR_dNo8Qv0Ka3horvNkSw-7FP771f1nKW9tpG5dDgsJOW9YAVpRM9VaaEzBX5D					
1-3-8 0-0 10-7-8 10-7-8 7-3-7 17-11-0 7-3-7 25-2-7 5-8-13 1-3-8 3-5-5 1-3-8 1-3-8					
Scale = 1/8" = 1'-0"					



WOOD N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. SPF A - C 2x4 DRY No.2 SPF C - F 2x4 DRY No.2 SPF F - H 2x4 DRY No.2 SPF H - J 2x4 DRY No.2 SPF S - B 2x4 DRY No.2 SPF K - I 2x4 DRY No.2 SPF S - P 2x4 DRY 1650F 1.5E SPF P - N 2x4 DRY 1650F 1.5E SPF N - K 2x4 DRY 1650F 1.5E SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER. DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS: CHORDS #ROWS SURFACE SPACING (IN) LOAD (PLF) TOP CHORDS: (0.122"x3") SPIRAL NAILS A-C 1 12 TOP SIDE(61.0) H-J 1 12 TOP SIDE(61.0) C-F 2 12 TOP SIDE(61.0) F-H 2 12 TOP SIDE(61.0) S-B 2 12 TOP SIDE(61.0) K-I 2 12 TOP SIDE(61.0) BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS S-P 2 12 TOP SIDE(0.0) P-N 2 12 TOP SIDE(0.0) N-K 2 12 TOP 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 B TMWV-p MT20 5.0 8.0 Edge C TTWW-m MT20 7.0 8.0 2.75 2.25 D TMWV-p MT20 5.0 8.0 2.50 2.25 E TMW-rw MT20 3.0 8.0 F TS-I MT20 5.0 8.0 G TMWV-p MT20 5.0 6.0 2.50 2.25 H TTWW-m MT20 7.0 8.0 2.75 2.25 I TMWV-p MT20 5.0 8.0 Edge K BMWV-p MT20 3.0 6.0 L BMWV-p MT20 5.0 6.0 2.50 2.00 M BMWV-p MT20 6.0 6.0 3.00 3.50 N BS-I MT20 6.0 9.0 O BMWVW-I MT20 5.0 12.0 P BS-I MT20 6.0 9.0 Q BMWVW-I MT20 6.0 9.0 3.00 3.50 R BMWVW-I MT20 5.0 6.0 2.50 2.00 S BMWV-p MT20 3.0 6.0		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 UPLIFT IN-SX IN-SX S 4103 0 4103 0 0 5-8 5-8 K 5382 0 5382 0 0 5-8 5-8 UNFACTORED REACTIONS 1ST LOSE MAX/MIN COMPONENT REACTIONS JT COMBINED SNOW LIVE PERMALIVE WIND DEAD SOIL S 3048 1745 / 0 564 / 0 0 / 0 0 / 0 737 / 0 0 / 0 K 3998 2288 / 0 741 / 0 0 / 0 0 / 0 957 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) S, K BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.73 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS FACTORED MAX. FORCE VERT. LOAD LC1 MAX UNBRACED LENGTH FR-TO MEMB. (LBS) (PLF) CSI (LC) MEMB. MAX. FORCE VERT. LOAD LC1 MAX UNBRACED LENGTH FR-TO A-B 0 / 42 -102.1 -102.1 0.08 (1) 10.00 R-C -811 / 0 0.10 (1) B-C -4422 / 0 -102.1 -102.1 0.19 (1) 4.39 L-H -1123 / 0 0.14 (1) C-D -9434 / 0 -102.1 -102.1 0.38 (1) 3.74 B-R 0 / 3740 0.46 (1) D-E -13583 / 0 -102.1 -102.1 0.57 (1) 3.03 L-I 0 / 4945 0.61 (1) E-F -13583 / 0 -102.1 -102.1 0.81 (1) 2.73 M-H 0 / 7781 0.86 (1) F-T -13583 / 0 -102.1 -102.1 0.81 (1) 2.73 C-Q 0 / 6582 0.81 (1) T-U -13583 / 0 -102.1 -102.1 0.81 (1) 2.73 M-G -2678 / 0 0.32 (1) U-V -13583 / 0 -102.1 -102.1 0.81 (1) 2.73 C-D 2815 / 0 0.35 (1) V-G -13583 / 0 -102.1 -102.1 0.81 (1) 2.73 O-G 0 / 2158 0.27 (1) G-W -11655 / 0 -102.1 -102.1 0.69 (1) 3.06 D-O 0 / 4638 0.57 (1) W-X -11655 / 0 -102.1 -102.1 0.69 (1) 3.06 C-E -922 / 0 0.11 (1) X-Y -11655 / 0 -102.1 -102.1 0.69 (1) 3.06 Y-Z -11655 / 0 -102.1 -102.1 0.69 (1) 3.06 Z-H -11655 / 0 -102.1 -102.1 0.69 (1) 3.06 H-I -5847 / 0 -102.1 -102.1 0.09 (1) 10.00 I-J -5847 / 0 -102.1 -102.1 0.09 (1) 10.00 S-B -4133 / 0 0.0 0.0 0.15 (1) 7.92 K-I -5383 / 0 0.0 0.0 0.19 (1) 6.32 S-R 0 / 0 -38.5 -38.5 0.09 (2) 10.00 R-Q 0 / 3572 -38.5 -38.5 0.23 (1) 10.00 Q-P 0 / 9434 -38.5 -38.5 0.58 (1) 10.00 P-O 0 / 9434 -38.5 -38.5 0.58 (1) 10.00 O-AA 0 / 11654 -38.5 -38.5 0.84 (1) 10.00 AA-AB 0 / 11654 -38.5 -38.5 0.84 (1) 10.00 AB-AC 0 / 11654 -38.5 -38.5 0.84 (1) 10.00 AC-N 0 / 11654 -38.5 -38.5 0.84 (1) 10.00 N-M 0 / 11654 -38.5 -38.5 0.84 (1) 10.00 M-AD 0 / 4725 -38.5 -38.5 0.32 (1) 10.00 AD-AE 0 / 4725 -38.5 -38.5 0.32 (1) 10.00 AE-AF 0 / 4725 -38.5 -38.5 0.32 (1) 10.00 AF-AG 0 / 4725 -38.5 -38.5 0.32 (1) 10.00 AG-L 0 / 4725 -38.5 -38.5 0.32 (1) 10.00 L-AH 0 / 0 -38.5 -38.5 0.09 (8) 10.00 AH-K 0 / 0 -38.5 -38.5 0.09 (8) 10.00 FACTORED CONCENTRATED LOADS (LBS) JT LOC. LC1 MAX. MAX. FACE DIR. TYPE HEEL CONN. H 32-4-11 -43 -48 --- FRONT VERT DEAD --- C1 H 32-4-11 -248 -249 --- FRONT VERT SNOW --- C1 N 23-8-4 -75 -95 --- BACK VERT TOTAL --- C1 T 19-9-4 -198 -198 --- BACK VERT TOTAL --- C1		DESIGN CRITERIA *** SPECIAL LOADS ANALYSIS *** GEOMETRY AND/OR BASIC LOADS CHANGED BY USER. LOADS WERE DERIVED FROM USER INPUT NO FURTHER MODIFICATIONS WERE MADE SPECIFIED LOADS: TOP CH. LL = 28.0 PSF DL = 6.0 PSF BOT CH. LL = 10.5 PSF DL = 7.0 PSF TOTAL LOAD = 52.5 PSF SPACING = 24.0 IN. C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 *** NON STANDARD GIRDER *** ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES. THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBC 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF BCBC 2010, OBC 2012 - CSA 086-09, CSA 086-14 - TPIC 2011, TPIC 2014 (55 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL) = L/360 (1.19") CALCULATED VERT. DEFL.(LL) = L/999 (0.43") ALLOWABLE DEFL.(TL) = L/360 (1.19") CALCULATED VERT. DEFL.(TL) = L/605 (0.71") CSI: TC=0.81/1.00 (E-G); BC=0.84/1.00 (M-O); WB=0.96/1.00 (H-M); SSI=0.51/1.00 (M-O); DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00 COMPANION LIVE LOAD FACTOR = 1.00 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT. NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 788 1987 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP = 0.89 (R) (INPUT = 0.90) JSI METAL = 0.89 (P) (INPUT = 1.00) Structural component only DWG# T-1913869 CONTINUED ON PAGE 2	
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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
401705	T100	1	2	GREENPARK HOMES	
Tamarack Roof Truss, Burlington				Version 8.306 S May 10 2019 Mtek Industries, Inc. Wed May 29 21:45:20 2019 Page 2	
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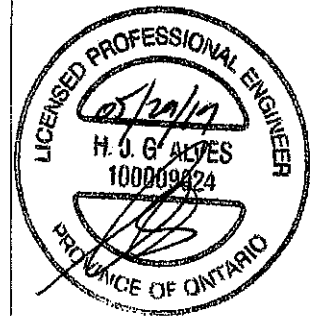
Edge - INDICATES REFERENCE CORNER OF PLATE
TOUCHES EDGE OF CHORD.

FACTORED CONCENTRATED LOADS (LBS)									
LOC.	LOC.	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.	
U	21-9-4	-198	-198	---	BACK	VERT	TOTAL	---	C1
V	23-9-4	-198	-198	---	BACK	VERT	TOTAL	---	C1
W	25-9-4	-198	-198	---	BACK	VERT	TOTAL	---	C1
X	27-9-4	-198	-198	---	BACK	VERT	TOTAL	---	C1
Y	29-9-4	-198	-198	---	BACK	VERT	TOTAL	---	C1
Z	31-9-4	-217	-217	---	BACK	VERT	TOTAL	---	C1
AA	19-1-8	-1874	-1874	---	BACK	VERT	TOTAL	---	C1
AB	19-9-4	-75	-95	---	BACK	VERT	TOTAL	---	C1
AC	21-9-4	-75	-95	---	BACK	VERT	TOTAL	---	C1
AD	25-9-4	-75	-95	---	BACK	VERT	TOTAL	---	C1
AE	27-9-4	-75	-95	---	BACK	VERT	TOTAL	---	C1
AF	29-9-4	-75	-95	---	BACK	VERT	TOTAL	---	C1
AG	31-9-4	-75	-95	---	BACK	VERT	TOTAL	---	C1
AH	33-10-12	-75	-95	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

RECEIVED
JUN 10 2019
TOWN OF SALESBORN
FILE NO. 1913869

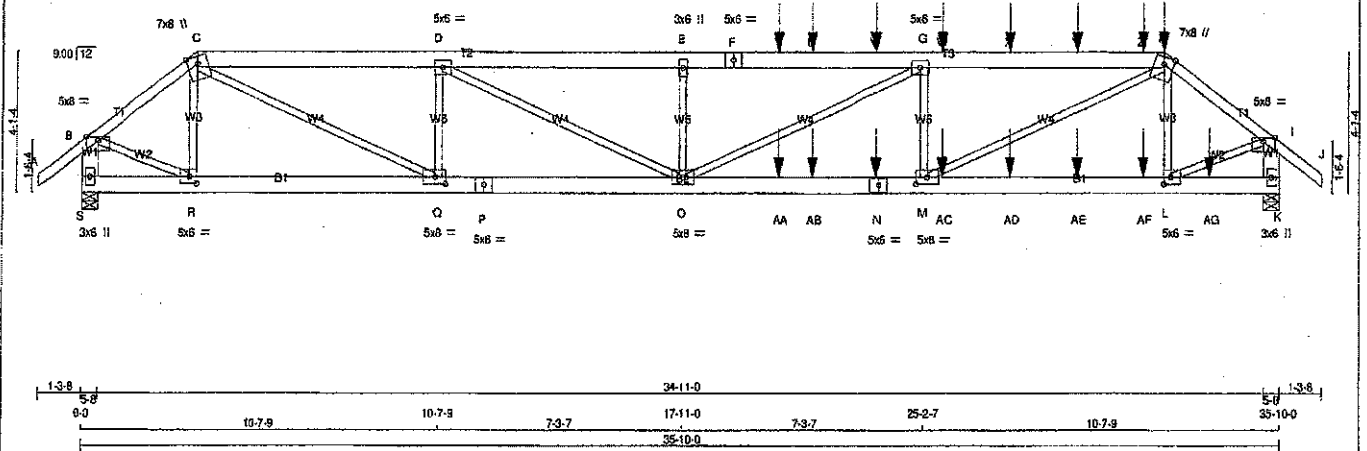


Structural component only
DWG# T-1913869

72

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
401705	T100Z	1	2	GREENPARK HOMES	
Tamarack Roof Truss, Burlington					

Version 8.300 S May 10 2019 MiTek Industries, Inc. Wed May 29 21:45:21 2019 Page 1
ID:guB8GiR_dNo9QvDKo3horvNkSw-TRzNMJHosSMnSOTeLkVPlscZ_ME0XaapF87hzBX5C
1-3-8 0-0 10-7-9 10-7-9 7-3-7 17-11-0 7-3-7 25-2-7 5-6-13 31-4-4 32-4-1 3-5-5 35-10-0 37-1-8 13-8
Scale = 1:59.4



TOTAL WEIGHT = 2 X 177 = 354 lb

LUMBER	N L G A RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF	
C - F	2x6	DRY	No.2	SPF	
F - H	2x6	DRY	No.2	SPF	
H - J	2x4	DRY	No.2	SPF	
S - B	2x6	DRY	No.2	SPF	
K - I	2x6	DRY	No.2	SPF	
S - P	2x6	DRY	1650F 1.5E	SPF	
P - N	2x6	DRY	1650F 1.5E	SPF	
N - K	2x6	DRY	1650F 1.5E	SPF	

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS: (0.122"x3") SPIRAL NAILS		
A-C	12	TOP SIDE(61.0)
H-J	12	TOP
C-F	12	TOP SIDE(61.0)
F-H	12	TOP
S-B	12	TOP
K-I	12	TOP

BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS	TOP
S-P	12
P-N	12
N-K	12

WEBS: (0.122"x3") SPIRAL NAILS	TOP
2x3	6

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	Edge
C	TTWW-m	MT20	7.0	8.0	Edge
D	TMVW-t	MT20	5.0	6.0	
E	TMVW-w	MT20	3.0	6.0	
F	TS-t	MT20	5.0	6.0	
G	TMVW-t	MT20	5.0	6.0	
H	TTWW-m	MT20	7.0	8.0	Edge
I	TMVW-p	MT20	5.0	8.0	Edge
K	BMV1-p	MT20	3.0	6.0	
L	BMVW-t	MT20	5.0	6.0	2.50 2.50
M	BMVW-t	MT20	5.0	8.0	2.50 3.75
N	BS-t	MT20	5.0	6.0	
O	BMVW-t	MT20	5.0	8.0	
P	BS-t	MT20	5.0	6.0	
Q	BMVW-t	MT20	5.0	8.0	2.50 3.75
R	BMVW-t	MT20	5.0	6.0	2.50 2.50
S	BMV1-p	MT20	3.0	6.0	

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

BEARINGS

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	DOWN	UPLIFT	IN-SX
S	3222	0	5-8
K	4399	0	5-8

UNFACTORED REACTIONS

1ST LOASE	MAX/MIN. COMPONENT REACTIONS	WIND	DEAD	SOL
JT COMBINED	SNOW	LIVE	PERM.LIVE	
S	2398	1398 / 0	457 / 0	0 / 0
K	3265	1849 / 0	821 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.52 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	FACTORED	WEBS	FACTORED
MEMB.	FORCE (LBS)	MEMB.	FORCE (LBS)
FR-TO	FROM TO	FR-TO	FROM TO
A-B	0 / 42	R-C	-602 / 0
B-C	-3957 / 0	L-H	-741 / 25
C-D	-6924 / 0	B-F	0 / 3988
D-E	-9109 / 0	L-I	0 / 3988
E-F	-9109 / 0	M-H	0 / 5468
F-T	-9109 / 0	C-Q	0 / 4721
T-U	-9109 / 0	M-G	-1938 / 0
U-V	-9109 / 0	Q-D	-1903 / 0
V-G	-9109 / 0	G-O	0 / 474
G-W	-8686 / 0	D-O	0 / 2444
W-X	-8686 / 0	O-E	-929 / 0
X-Y	-8686 / 0		
Y-Z	-8686 / 0		
Z-H	-8686 / 0		
H-I	-4728 / 0		
I-J	0 / 42		
S-B	-3223 / 0		
K-I	-4397 / 0		

FACTORED CONCENTRATED LOADS (LBS)	LOC.	LOC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
JT	32-4-11	-43	-48	---	FRONT	VERT	DEAD	---	C1
H	32-4-11	-248	-248	---	FRONT	VERT	SNOW	---	C1
N	23-4-4	-75	-95	---	FRONT	VERT	TOTAL	---	C1
T	20-4-4	-198	-198	---	FRONT	VERT	TOTAL	---	C1
U	21-4-4	-198	-198	---	FRONT	VERT	TOTAL	---	C1

DESIGN CRITERIA

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

SPECIFIED LOADS:

TOP CH.	LL = 29.0	PSF
	DL = 8.0	PSF
BOT CH.	LL = 10.5	PSF
	DL = 7.0	PSF
TOTAL LOAD	= 52.5	PSF

SPACING = 24.0 IN. C/C

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

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

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

THIS DESIGN COMPLIES WITH:
-PART 9 OF BCBC 2018, OBC 2012
-CSA 086-09, CSA 088-14
-TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.26")
ALLOWABLE DEFL.(TL) = L/360 (1.19")
CALCULATED VERT. DEFL.(TL) = L/975 (0.44")

CSI: TC=0.59/1.00 (E-G:1), BC=0.46/1.00 (M-O:1), WB=0.68/1.00 (H-M:1), SS=0.30/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

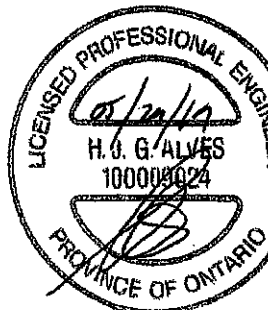
MAIL VALUES	PLATE (GRIPDRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618	354	1887

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.89 (R) (INPUT = 0.90)
JSI METAL=0.81 (P) (INPUT = 1.00)

Structural component only
DWG# T-1913870 CONTINUED ON PAGE 2



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
401705	T100Z	1	2	GREENPARK HOMES	
Tamarack Roof Truss, Burlington					
Version 8.300 S May 16 2019 MTEK Industries, Inc. Wed May 29 21:45:21 2019 Page 2					
ID:guB8GIR dNo9QvDKo3horvyNxSw-TRzNKMJHo5SMnSOTeLkvPisceZ ME0XaapF87hzBX5C					

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

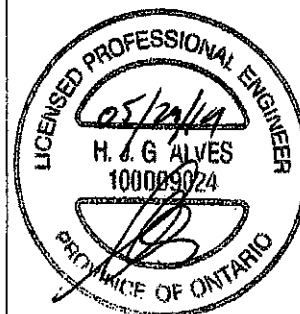
FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
V	23-9-4	-198	-198	---	FRONT	VERT	TOTAL	---	C1
W	25-9-4	-198	-198	---	FRONT	VERT	TOTAL	---	C1
X	27-9-4	-198	-198	---	FRONT	VERT	TOTAL	---	C1
Y	29-9-4	-198	-198	---	FRONT	VERT	TOTAL	---	C1
Z	31-9-4	-217	-217	---	FRONT	VERT	TOTAL	---	C1
AA	20-9-4	-75	-85	---	FRONT	VERT	TOTAL	---	C1
AB	21-9-4	-75	-85	---	FRONT	VERT	TOTAL	---	C1
AC	25-9-4	-75	-85	---	FRONT	VERT	TOTAL	---	C1
AD	27-9-4	-75	-85	---	FRONT	VERT	TOTAL	---	C1
AE	29-9-4	-75	-85	---	FRONT	VERT	TOTAL	---	C1
AF	31-9-4	-75	-85	---	FRONT	VERT	TOTAL	---	C1
AG	33-9-4	-75	-85	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

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TOWN OF GALESON
BUILDING SECTION
FILE NO. _____

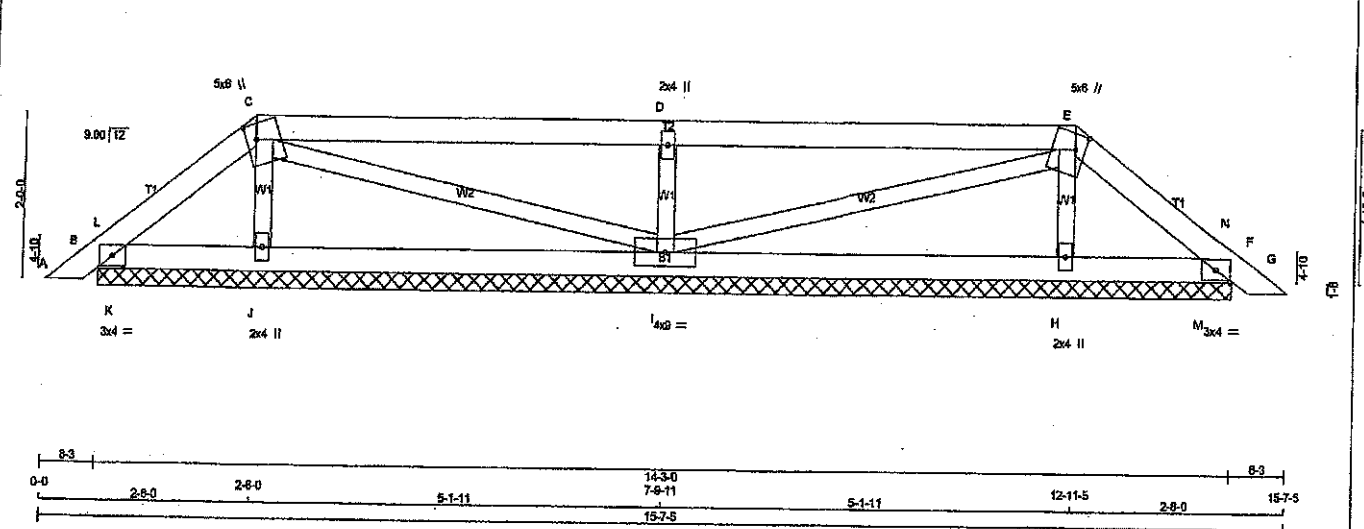


Structural component only
DWG# T-1913870

7/2

JOB NAME 401703	TRUSS NAME PB1	QUANTITY 2	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 6.230 S Nov 17 2018 Mitek Industries, Inc. Thu Mar 7 08:08:38 2019 Page 1
 ID: F_p41RasbN_g3ApPmZicDwyNwB2-x7BqVXqL7ggJh1GD6K24S1W0VzsDK4UJAb1UOzdO4X
 12-11-5 15-7-5
 Scale = 1/25



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
 B - F 2x4 DRY No.2 SPF
 ALL WEBS 2x3 DRY No.2 SPF
 DRY: SEASONED LUMBER.

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

JT	FACTORED		MAXIMUM FACTORED		INPUT	
	GROSS REACTION	DOWN	GROSS REACTION	DOWN	BRG	REQD
B	209	0	209	0	14-3-0	14-3-0
F	209	0	209	0	14-3-0	14-3-0
J	418	0	418	0	14-3-0	14-3-0
I	872	0	872	0	14-3-0	14-3-0
H	418	0	418	0	14-3-0	14-3-0

DESIGN CRITERIA
 SPECIFIED LOADS:
 TOP CH. LL = 20.0 PSF
 DL = 6.0 PSF
 BOT CH. LL = 10.5 PSF
 DL = 7.0 PSF
 TOTAL LOAD = 52.5 PSF
 SPACING = 24.0 IN./C/C

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-L	MT20	3.0	4.0		
C	TTWW+m	MT20	5.0	6.0	2.25	1.50
D	TTWW+w	MT20	2.0	4.0		
E	TTWW+m	MT20	5.0	6.0	2.25	1.50
F	TMB1-L	MT20	3.0	4.0		
H	BMW1+w	MT20	2.0	4.0		
I	BMW1+w	MT20	4.0	9.0		
J	BMW1+w	MT20	2.0	4.0		

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	145	113/0	5/0	0/0	0/0	27/0	0/0
F	145	113/0	5/0	0/0	0/0	27/0	0/0
J	323	146/0	88/0	0/0	0/0	89/0	0/0
I	644	379/0	112/0	0/0	0/0	153/0	0/0
H	323	146/0	88/0	0/0	0/0	89/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, F, J, I, H
BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
 ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

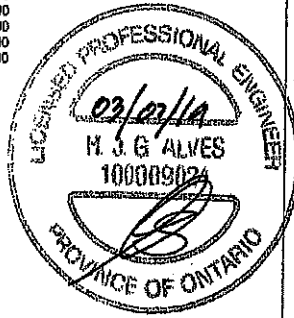
LOADING
 TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED	FACTORED	MAX. FACTORED	FACTORED
	FORCE (LBS)	VERT. LOAD LC1 (PLF)	FORCE (LBS)	FORCE (LBS)
FR-TO		FROM TO	LENGTH FR-TO	
A-B	0/17	-102.1 -102.1 0.03 (1)	10.00	J-C -233/0 0.03 (1)
B-L	-28/12	-102.1 -102.1 0.02 (1)	8.25	C-I -24/0 0.01 (1)
L-C	-85/0	-102.1 -102.1 0.04 (1)	6.25	I-D -856/0 0.10 (1)
C-D	-8/0	-102.1 -102.1 0.46 (1)	10.00	D-E -24/0 0.01 (1)
D-E	-8/0	-102.1 -102.1 0.46 (1)	10.00	E-H -233/0 0.03 (1)
E-N	-65/0	-102.1 -102.1 0.04 (1)	6.25	K-L -155/0 0.00 (1)
N-F	-28/12	-102.1 -102.1 0.02 (1)	6.25	M-N -155/0 0.00 (1)
F-G	0/17	-102.1 -102.1 0.03 (1)	10.00	
B-K	0/47	-38.5 -38.5 0.06 (1)	10.00	
K-J	0/47	-38.5 -38.5 0.12 (2)	10.00	
J-I	0/32	-38.5 -38.5 0.17 (3)	10.00	
I-H	0/32	-38.5 -38.5 0.17 (3)	10.00	
H-M	0/47	-38.5 -38.5 0.12 (2)	10.00	
M-F	0/47	-38.5 -38.5 0.06 (1)	10.00	

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 2010, NBCC 2015
 THIS DESIGN COMPLIES WITH:
 - PART 9 OF CBC 2010, CBC 2012
 - CSA 086-09, CSA 086-14
 - TPIC 2011, TPIC 2014
 (55% OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD
 CSI: TC=0.48/1.00 (C-D:1), BC=0.17/1.00 (H-I:3), WB=0.10/1.00 (D-I:1), SSI=0.28/1.00 (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)
 MAX MIN MAX MIN MAX MIN
 MT20 618 354 1667 768 1987 1658
 PLATE PLACEMENT TOL = 0.250 inches
 PLATE ROTATION TOL = 5.0 Deg.
 JSI GRIP= 0.34 (D) (INPUT = 0.80)
 JSI METAL= 0.14 (D) (INPUT = 1.00)

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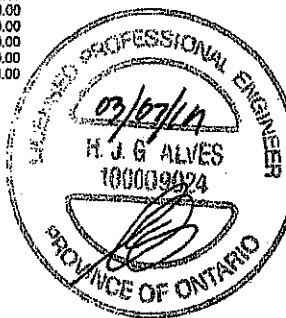
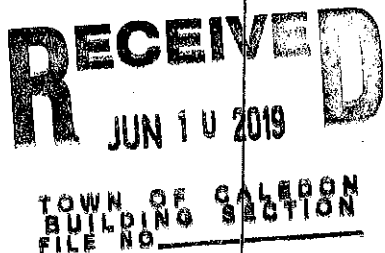
DWG NO. TAM **1705747**
 STRUCTURAL
 COMPONENT ONLY

Tamarack Roof Truss, Burlington

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DWG NO. TBM 11905748
STRUCTURAL
COMPONENT ONLY

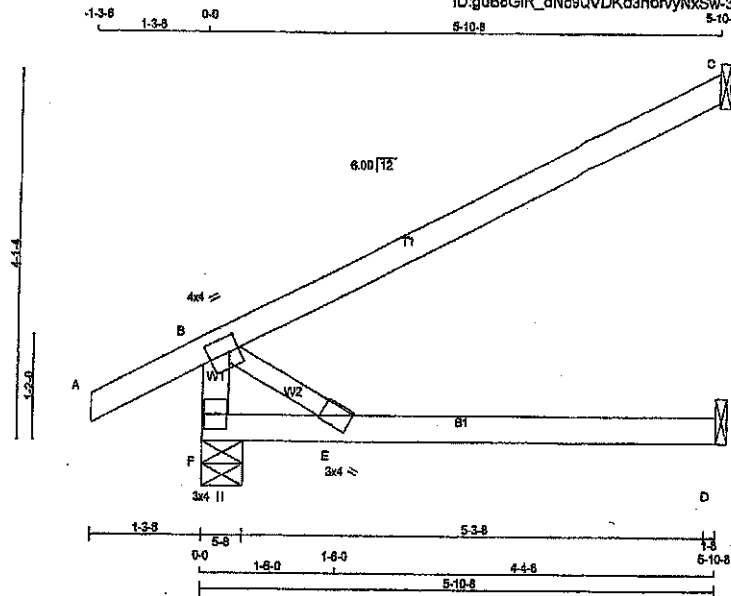


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK HOMES	DRWG NO.
401703	J1	25	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Thu Mar 7 08:06:32 2019 Page 1
ID:guB8GIR_dNc9QvDKo3horyNkSw-3MxJf9nxS9Hb3Jl_GF8vcsoouahHXaufYdpLdzdQ4b

Scale = 1/23.6



TOTAL WEIGHT = 25 X 18 = 452 lb

LUMBER

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TW/W-I	MT20	4.0	4.0	2.00	1.25
E	BMW+W	MT20	3.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
F	552	0	552	0
C	300	0	300	0
D	113	0	144	0

SEE MITEK STANDARD DETAIL B37821H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

1ST LOASE	MAX/MIN. COMPONENT REACTIONS						
	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
F	404	249 / 0	62 / 0	0 / 0	93 / 0	0 / 0	
C	206	171 / 0	0 / 0	0 / 0	36 / 0	0 / 0	
D	103	0 / 0	62 / 0	0 / 0	41 / 0	0 / 0	

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	CS1 (LC)	MAX. FORCE (LBS)
FR-TO		FROM TO		FR-TO
F-B	-438 / 0	0.0	0.0	0.04 (1)
A-B	0 / 31	-102.1	-102.1	0.13 (1)
B-C	0 / 0	-102.1	-102.1	0.80 (1)
F-E	0 / 0	-38.5	-38.5	0.24 (3)
E-D	0 / 0	-38.5	-38.5	0.31 (3)

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 28.0 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, CBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/925 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/565 (0.13")

CS1: TC=0.60/1.00 (B-C:1), BC=0.31/1.00 (D-E:3),
WB=0.00/1.00 (B-E:1), SS1=0.21/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1887 789 1987 1858

PLATE PLACEMENT TOL. = 0.250 inches

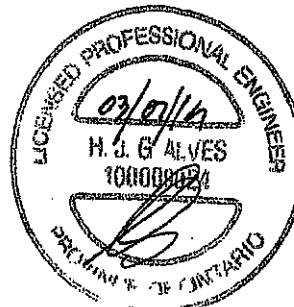
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.27 (B) (INPUT = 0.90)
JSI METAL = 0.07 (B) (INPUT = 1.00)

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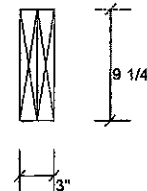
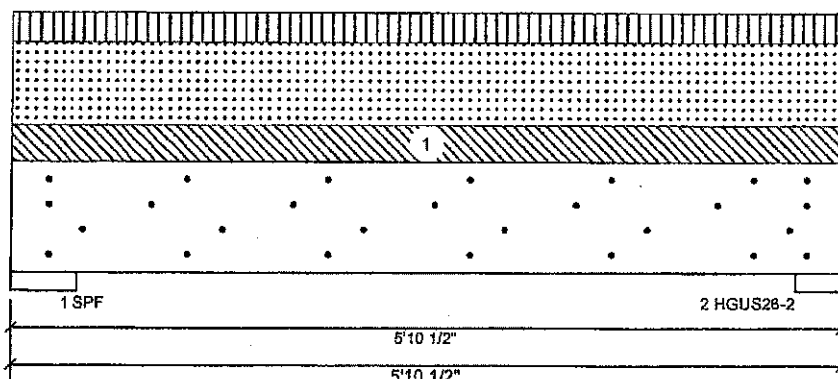
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Client:
Project:
Address:Date: 5/29/2019
Designer:
Job Name: 401705
Project #:

Page 1 of 2

BM20 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level

**Member Information**

Type:	Girder	Application:	Roof (Residential)
Plies:	2	Slope:	0/12
Moisture Condition:	Dry	Design Method:	LSD
Deflection LL:	360	Building Code:	NBCC 2015
Deflection TL:	360	Load Sharing:	No
Importance:	Normal	Deck:	Not Checked
		Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind
1	331	410	929	0
2	317	392	891	0

Bearings and Factored Reactions

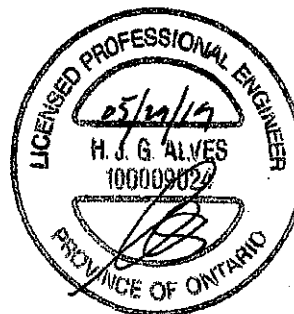
Bearing	Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF	5.600"	22%	512 / 1725	2237 L
2 - HGUS...	4.000"	29%	491 / 1653	2143 L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2528 ft-lb	3'	6039 ft-lb	0.419 (42%)	1.25D+1.5S	L
Unbraced	2528 ft-lb	3'	5236 ft-lb	0.483 (48%)	1.25D+1.5S	L
Shear	1941 lb	1'2"	3984 lb	0.487 (49%)	1.25D+1.5S	L
LL Defl inch	0.022 (L/2820)	3'	0.174 (L/360)	0.130 (13%)	S+0.5L	L
TL Defl inch	0.030 (L/2052)	3'	0.174 (L/360)	0.180 (18%)	D+S+0.5L	L

Design Notes

- 1 Fasten all plies using 4 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on single ply width.



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ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Uniform		10-6-0	Near Face	13 PSF	10.5 PSF	29.5 PSF	0 PSF	

Manufacturer Info

Tamarack Roof Trusses
3289 North Service Rd., ON
Canada
L7N3G2
(605) 335-1115



This design is valid until 12/11/2021





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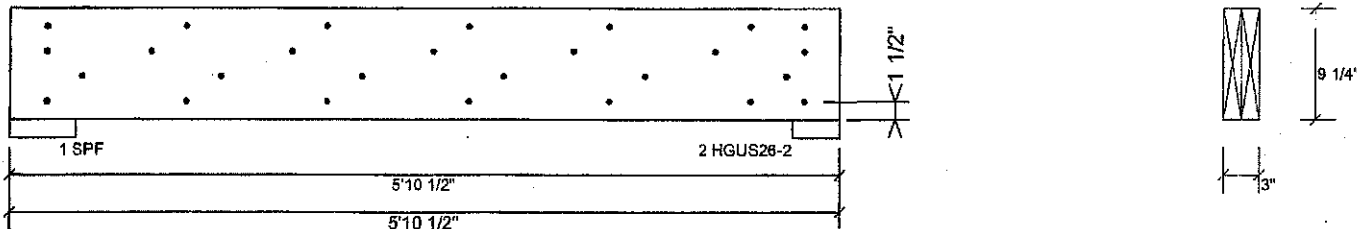
Client:
Project:
Address:

Date: 5/29/2019
Designer:
Job Name: 401705
Project #:

Page 2 of 2.

BM20 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level

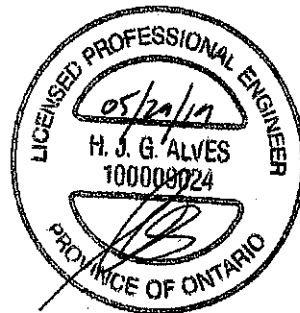


Multi-Ply Analysis

Fasten all plies using 4 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c. Maximum end distance not to exceed 6"

Capacity	82.2 %
Load	372.8 PLF
Yield Limit per Foot	453.4 PLF
Yield Limit per Fastener	113.3 lb.
Yield Mode	9
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	1.25D+1.5S+L
Duration Factor	1.00

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DWG NO. TAM 71913874
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COMPONENT ONLY 3/2

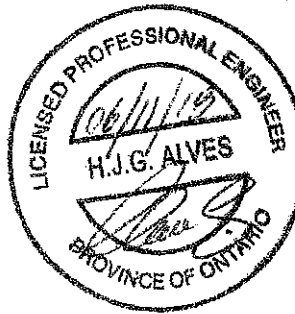
Manufacturer Info

Tamarack Roof Trusses
3289 North Service Rd., ON
Canada
L7N3G2
(905) 335-1115

TAMARACK
LUMBER INC
ALMA LUMBER GROUP

This design is valid until 12/11/2021





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

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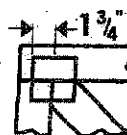
T-1900218

Feb 09, 2018

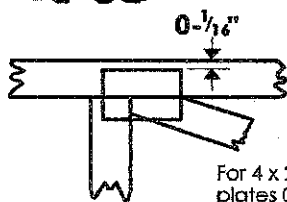
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BUILDING SECTION
FILE NO _____

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 0-1/4" from outside edge of truss.



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

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

PLATE SIZE

4 x 4

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

LATERAL BRACING LOCATION



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

BEARING



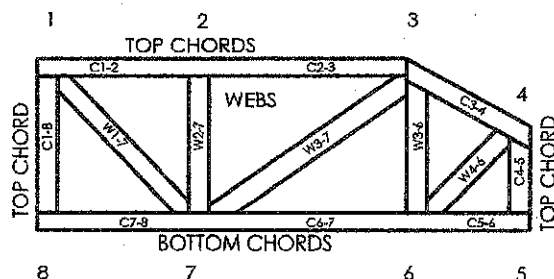
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

- TPIC: Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses
- DSB-89: Design Standard for Bracing.
- BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

CCMC Reports:

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

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



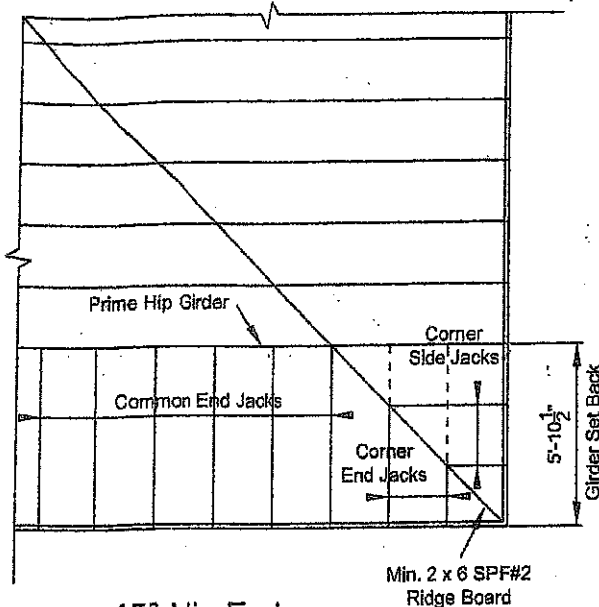
General Safety Notes

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 to 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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TOWN OF GALLUP
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45° Hip End

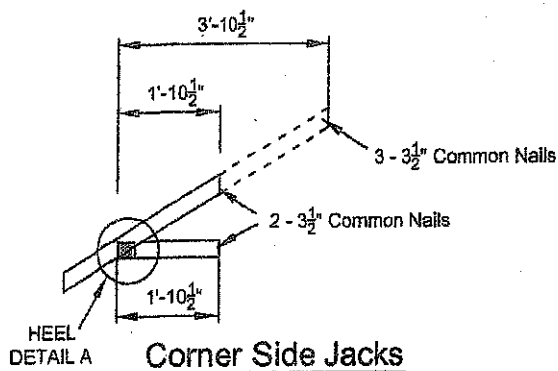
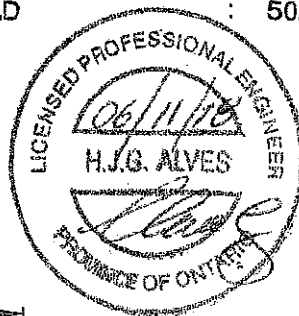
LUMBER SPECIFICATION

TOP CHORD : 2 x 4 SPF#2
 BOTTOM CHORD : 2 x 4 SPF#2
 WEBS : 2 x 3 SPF#2
 UNLESS OTHERWISE SHOWN

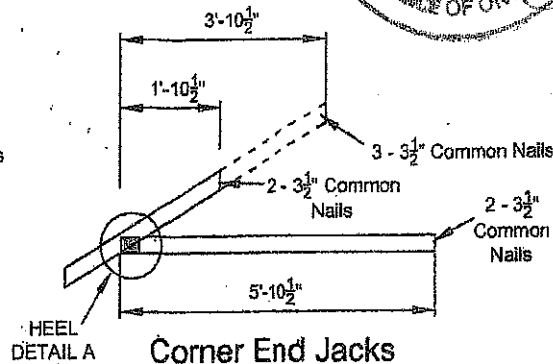
DESIGN LOAD

TOP CHORD SNOW LOAD : 40.5 P.S.F.
 TOP CHORD DEAD LOAD : 3.0 P.S.F.
 BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.
 BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.

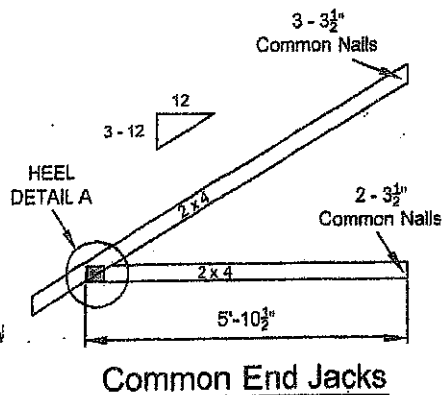
TOTAL LOAD : 50.5 P.S.F



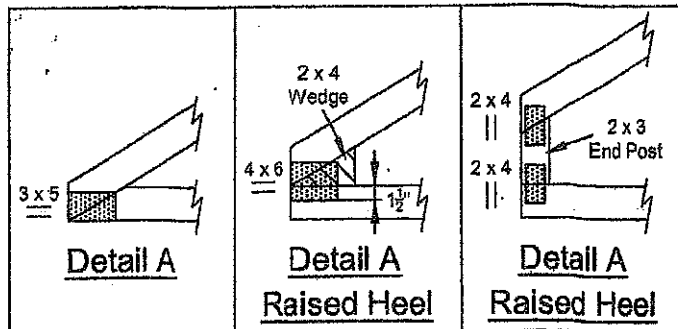
Corner Side Jacks



Corner End Jacks

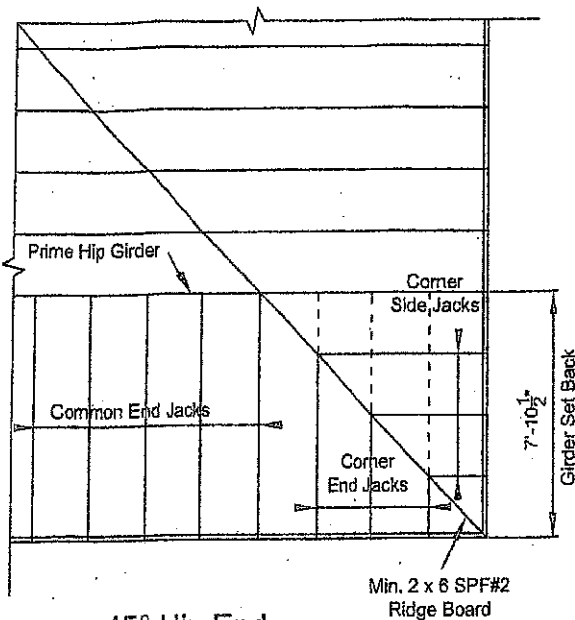


Common End Jacks



NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (L.S.D. DESIGN)

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45° Hip End

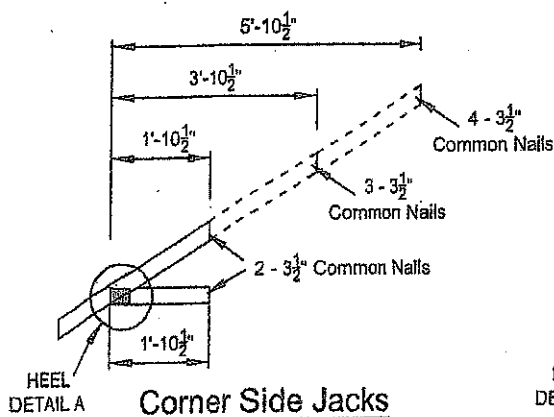
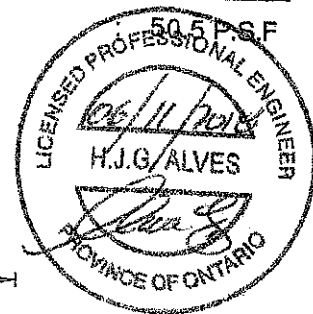
LUMBER SPECIFICATION

TOP CHORD : 2 x 4 SPF#2
 BOTTOM CHORD : 2 x 4 SPF#2
 WEBS : 2 x 3 SPF#2
 UNLESS OTHERWISE SHOWN

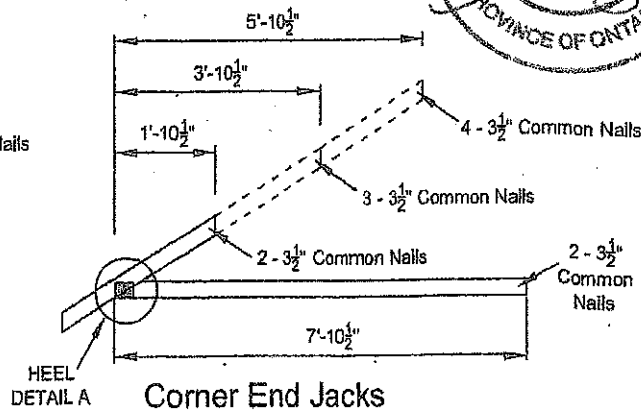
DESIGN LOAD

TOP CHORD SNOW LOAD : 40.5 P.S.F.
 TOP CHORD DEAD LOAD : 3.0 P.S.F.
 BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.
 BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.

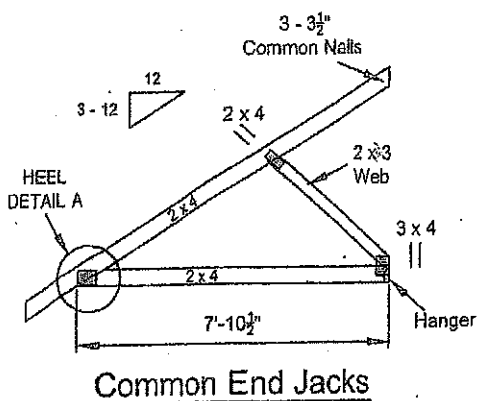
TOTAL LOAD



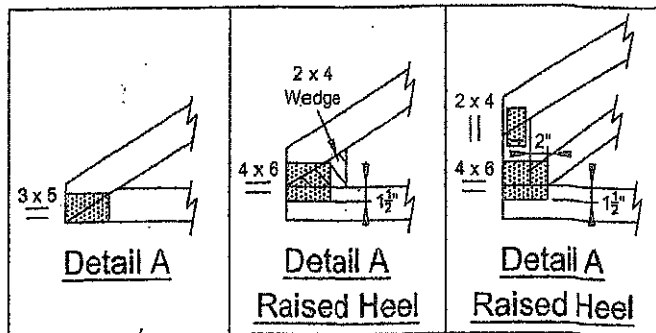
Corner Side Jacks



Corner End Jacks



Common End Jacks



NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (L.S.D. DESIGN)

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