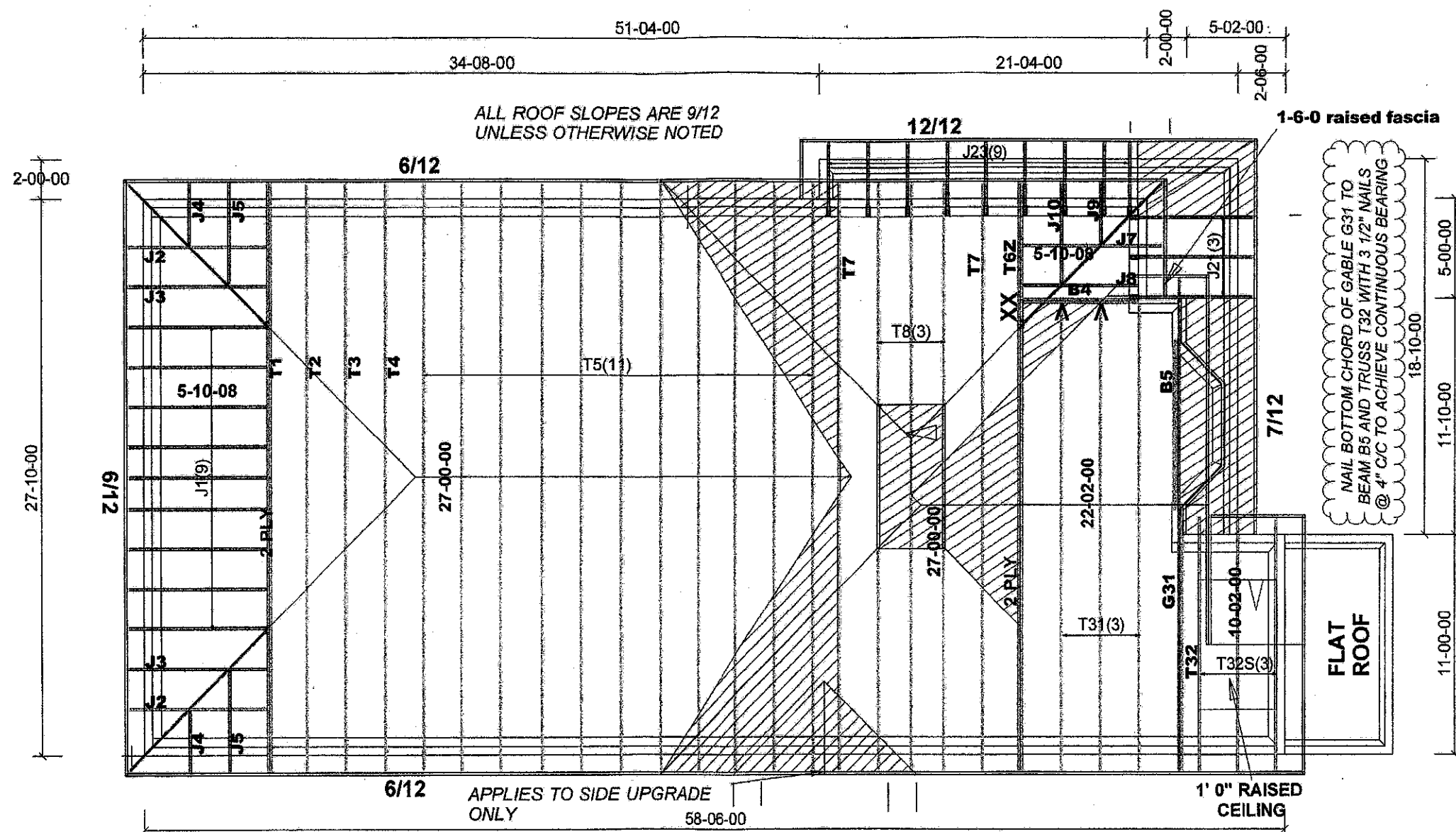




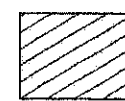
THIS STRUCTURE MUST BE
CONSTRUCTED TO MEET OR
EXCEED THE PROVISIONS OF
THE ONTARIO BUILDING CODE

ASPHALT SHINGLES
12" FINISHED O.H.
5" CLADDING ALLOWANCE
2x6 EXTERIOR WALLS
2x6 FASCIA BOARD
HEEL: R.T.M.C.

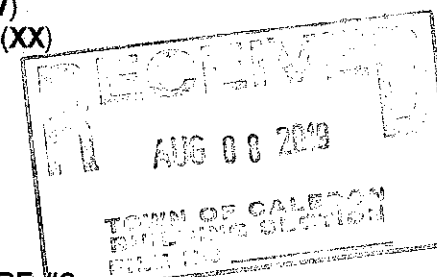
ALL CONV. FRAMING TO CONFORM
WITH PART 9 OF O.B.C. 2012 ROOF
RAFTERS THAT CROSS OVER OR
MEET TRUSSES TO BE 2X4 SPF #2 24"
O.C. WITH A VERT. POST TO THE TRUSS
UNDERNEATH AT EACH CROSS PT.
VERT. POST LONGER THAN 6'
TO HAVE LATERAL BRACING SO
THAT THE DIST. BETWEEN END PT.
& BETWEEN ROWS OF BRACING
DOES NOT EXCEED 6'

DESIGN CONFORMS WITH OBC 2012
OCCUPANCY: RESIDENTIAL | PART: 9
GROUND SNOW LOAD $S_s=37.6$ psf $S_r=8.4$ psf
DESIGN LOADS
TCDL (6 psf)
BCLL (10.5psf)
BCDL (7psf)

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

 DENOTES:
CONVENTIONAL
FRAMING

BEAMS:
B4: 2 - 2x10 SPF #2



THIS STRUCTURE MUST BE
CONSTRUCTED TO MEET OR
EXCEED THE PROVISIONS OF
THE ONTARIO BUILDING CODE

M12269

 TAMARACK LUMBER INC. ALFA LUMBER GROUP	Job Track: 50120	Builder / Location: Greenpark / CALEDON		Model / Elevation: Brentwood 3A/ 3 STD or WITH SIDE UPGRADE LOT 12		Mitek ver 8.2.3.229
	Plan Log: 200142	Project: Lamberts Lane Home Corp.		THESE DRAWINGS CONSTITUTE THE PROPERTY OF TAMARACK ROOF TRUSSES INC., SHALL NOT BE REPRODUCED, PUBLISHED, OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.		
	Layout ID: 400342	Date: 4/30/2019	Sales: Mario DiCano	Designer: Brand		



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: Greenpark
 Project: Lamberts Lane Home Corp.
 Location: CALEDON
 Model: Brentwood 3A
 Lot #:
 Elevation: 3

Job Track: 50120
 PlanLog: 200142
 Layout ID: 400342
 Ref #
 Page: 1 of 2
 Date: 04/30/2019
 Designer: Brian Faneca
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T1 Hip Girder	6/12	27-00-00	4-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	209.02 132.67		
	1	T2 Hip	6/12	27-00-00	5-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	109.31 68.83		
	1	T3 Hip	6/12	27-00-00	6-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	110.98 70.67		
	1	T4 Hip	6/12	27-00-00	7-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	112.6 70.67		
	11	T5 Common	6/12	27-00-00	7-11-00	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	1251.35 788.33		
	1 2-ply	T6Z Hip Girder	9/12	27-00-00	5-11-02	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	271.8 174.00		
	2	T7 Hip	9/12	27-00-00	7-05-02	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	249.14 157.67		
	3	T8 Hip	9/12	27-00-00	8-11-02	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	385.47 248.00		
	3	T31 Common	9/12	22-02-00	10-07-00	2 x 4	1-03-08	1-06-04 3-00-04	305.98 189.50		
	1	G31 GABLE	9/12	22-02-00	10-07-00	2 x 4	1-03-08 1-03-08	1-06-04 3-00-04	118.64 76.50		
	1	T32 Common	9/12	10-02-00	5-04-00	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	44.38 29.50		
	3	T32S Roof Special	9/12	10-02-00	5-04-00	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	156.34 110.00		
	9	J1 Jack-Open	6/12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	151.15 98.00		
	2	J2 Jack-Open Girder	6/12	1-09-07	2-00-12	2 x 4	1-03-08 4-01-01	1-02-00 2-00-12	23.16 14.67		



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: Greenpark
 Project: Lamberts Lane Home Corp.
 Location: CALEDON
 Model: Brentwood 3A
 Lot #:
 Elevation: 3

Job Track: 50120
 PlanLog: 200142
 Layout ID: 400342
 Ref #
 Page: 2 of 2
 Date: 04/30/2019
 Designer: Brian Faneca
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	2	J3 Jack-Open	6 /12	3-09-07	3-00-12	2 x 4	1-03-08 2-01-01	1-02-00 3-00-12	28.28 17.33		
	2	J4 Jack-Open	6 /12	1-09-07	2-00-12	2 x 4	1-03-08 1-01	1-02-00 2-00-12	14.04 9.33		
	2	J5 Jack-Open	6 /12	1-10-08	3-00-12	2 x 4	1-03-08 1-10-15	1-02-00 2-01-04	19.14 12.00		
	1	J7 Jack-Open Girder	8 /12	1-09-07	2-07-02	2 x 4	1-03-08 4-01-01	1-04-13 2-07-02	13.47 8.33		
	1	J8 Jack-Open	9 /12	5-10-08	4-04-05	2 x 4	1-03-08	1-06-04 5-11-02	17.07 11.50		
	1	J9 Jack-Open	9 /12	1-09-07	2-10-05	2 x 4	1-03-08 1-01	1-06-04 2-10-05	9.31 7.00		
	1	J10 Jack-Open	9 /12	1-10-08	4-04-05	2 x 4	1-03-08 1-10-15	1-06-04 2-11-02	12.22 8.33		
	3	J21 Jack-Open	7 /12	5-01-08	4-01-00	2 x 4	1-03-08	4-05 3-03-14	43.53 28.00		
	9	J23 Jack-Open	12 /12	2-05-08	4-01-15	2 x 4	1-03-08	11-06 3-04-06	88.15 60.00		

TOTAL # TRUSS= 64

TOTAL BFT OF ALL TRUSSES= 2388.83

BFT.

TOTAL WEIGHT OF ALL TRSSES 3744.54 LBS

HARDWARE

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

TOTAL NUMBER OF ITEMS= 3

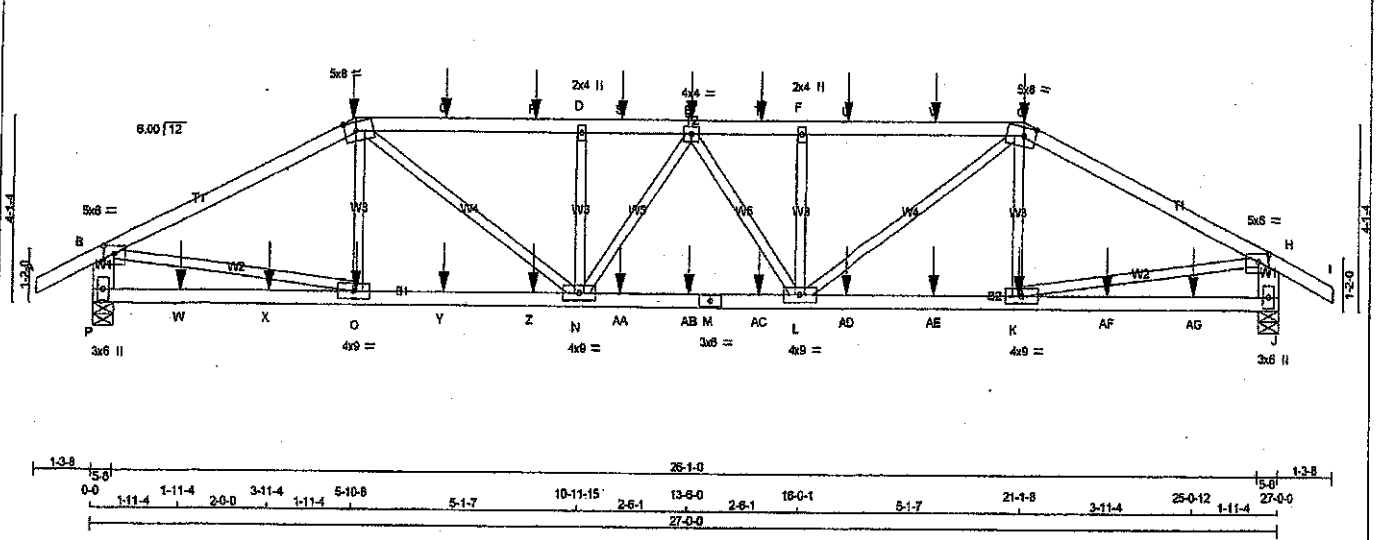
JOB NAME 200142-400307	TRUSS NAME T1	QUANTITY 1	PLY 2	JOB DESC. Brentwood 3A	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MiTak Industries, Inc. Wed May 8 14:08:59 2019 Page 1

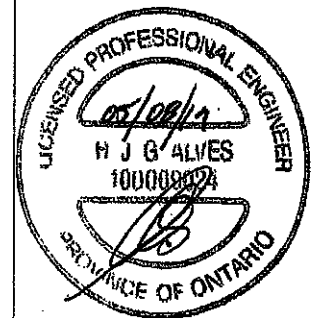
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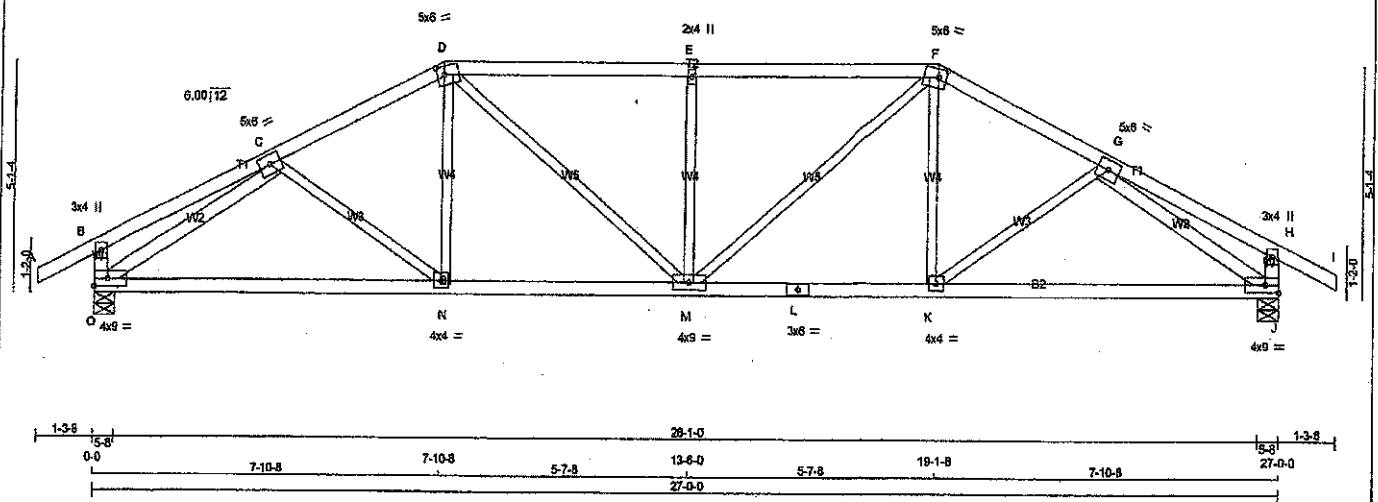
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - C 2x4 DRY No.2 SPF C - G 2x4 DRY No.2 SPF G - I 2x4 DRY No.2 SPF P - B 2x6 DRY No.2 SPF J - H 2x6 DRY No.2 SPF P - M 2x4 DRY No.2 SPF M - J 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER. DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS: CHORDS #ROWS SURFACE SPACING (IN) LOAD(PLF) TOP CHORDS : (0.122"x3") SPIRAL NAILS A-C 1 12 SIDE(61.0) C-G 1 12 SIDE(61.0) G-I 1 12 SIDE(61.0) P-B 2 12 TOP J-H 2 12 TOP BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS P-M 1 12 SIDE(61.0) M-J 1 12 SIDE(61.0) 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 TMVW-p MT20 5.0 6.0 2.00 2.75 C TTVW-w MT20 5.0 8.0 2.25 3.25 D TMVW-w MT20 2.0 4.0 E TMVW-w MT20 4.0 4.0 F TMVW-w MT20 2.0 4.0 G TTVW-w MT20 5.0 8.0 2.25 3.25 H TMVW-p MT20 5.0 6.0 2.00 2.75 J BMV1+p MT20 3.0 6.0 K BMVW-t MT20 4.0 9.0 L BMVW-w MT20 4.0 9.0 M BS-t MT20 3.0 6.0 N BMVW-w MT20 4.0 9.0 O BMVW-t MT20 4.0 9.0 P 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 REQD JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX P 3235 0 3235 0 0 5-8 5-8 J 3235 0 3235 0 0 5-8 5-8 UNFACTORED REACTIONS 1ST LCASE MAX/MIN COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM LIVE WIND DEAD SOIL P 2420 1328 / 0 489 / 0 0 / 0 0 / 0 603 / 0 0 / 0 J 2420 1328 / 0 489 / 0 0 / 0 0 / 0 603 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) P, J 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 MAX FACTORED FORCE (LBS) FACTORED VERT. LOAD LC1 MAX (PLF) MAX. UNBRACED LENGTH FR-TO A-B 0 / 31 -102.1 -102.1 0.07 (1) 10.00 B-C -4807 / 0 -102.1 -102.1 0.53 (1) 4.00 C-Q -5772 / 0 -102.1 -102.1 0.47 (1) 3.63 Q-R -5772 / 0 -102.1 -102.1 0.47 (1) 3.63 R-D -5772 / 0 -102.1 -102.1 0.47 (1) 3.63 D-S -5772 / 0 -102.1 -102.1 0.39 (1) 3.63 S-E -5772 / 0 -102.1 -102.1 0.39 (1) 3.63 E-T -5772 / 0 -102.1 -102.1 0.39 (1) 3.63 T-F -5772 / 0 -102.1 -102.1 0.39 (1) 3.63 F-U -5772 / 0 -102.1 -102.1 0.39 (1) 3.63 U-V -5772 / 0 -102.1 -102.1 0.47 (1) 3.63 V-G -5772 / 0 -102.1 -102.1 0.47 (1) 3.63 G-H -4807 / 0 -102.1 -102.1 0.53 (1) 4.00 H-I 0 / 31 -102.1 -102.1 0.07 (1) 10.00 P-B -3095 / 0 0.0 0.0 0.11 (1) 7.81 J-H -3095 / 0 0.0 0.0 0.11 (1) 7.81 WEBS MAX FACTORED FORCE (LBS) MAX. UNBRACED LENGTH FR-TO A-C -177 / 254 0.03 (3) C-N 0 / 2086 0.26 (1) N-D -844 / 0 0.11 (1) D-F -844 / 0 0.11 (1) F-G 0 / 2086 0.26 (1) G-K 0 / 2086 0.03 (3) K-O 0 / 4180 0.51 (1) O-H 0 / 4180 0.51 (1) H-E -78 / 0 0.01 (1) E-L -78 / 0 0.01 (1)										DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 28.1 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 2.00/12 MINIMUM THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBC 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF BCBC 2018, OBC 2012 - CSA 688-09, 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 28.1 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL) = L/360 (0.90") CALCULATED VERT. DEFL.(LL) = U/898 (0.15") ALLOWABLE DEFL.(TL) = L/360 (0.90") CALCULATED VERT. DEFL.(TL) = U/899 (0.25") CSI: TC=0.53/1.00 (B-C:1), BC=0.82/1.00 (L-N:1), WB=0.51/1.00 (B-O:1), SS=0.21/1.00 (F-G: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 618 354 1987 788 1987 1656 PLATE PLACEMENT TOL = 0.250 inches PLATE ROTATION TOL = 5.0 Deg. GRIP=0.90 (H) (INPUT = 0.90) SI METAL=0.98 (M) (INPUT = 1.00)									
FACTORED CONCENTRATED LOADS (LBS) JT LOC. LC1 MAX- FACE DIR TYPE HEEL CONN. C 5-10-8 -409 -409 - FRONT VERT TOTAL - - E 13-6-0 -123 -123 - FRONT VERT TOTAL - - G 21-1-8 -409 -409 - FRONT VERT TOTAL - -										LICENSED PROFESSIONAL ENGINEER 05/09/19 H.J. G. ALVES 10000924 PROVINCE OF ONTARIO																			
DRWG NO. TAM 71410420 STRUCTURAL COMPONENT ONLY 1/2										CONTINUED ON PAGE 2																			

FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
K	21-0-12	-55	-70	—	FRONT	VERT	TOTAL	—	—
O	5-11-4	-55	-70	—	FRONT	VERT	TOTAL	—	—
Q	7-11-4	-123	-123	—	FRONT	VERT	TOTAL	—	—
R	9-11-4	-123	-123	—	FRONT	VERT	TOTAL	—	—
S	11-11-4	-123	-123	—	FRONT	VERT	TOTAL	—	—
T	15-0-12	-123	-123	—	FRONT	VERT	TOTAL	—	—
U	17-0-12	-123	-123	—	FRONT	VERT	TOTAL	—	—
V	19-0-12	-123	-123	—	FRONT	VERT	TOTAL	—	—
W	1-11-4	-55	-74	—	FRONT	VERT	TOTAL	—	—
X	3-11-4	-55	-70	—	FRONT	VERT	TOTAL	—	—
Y	7-11-4	-55	-70	—	FRONT	VERT	TOTAL	—	—
Z	9-11-4	-55	-70	—	FRONT	VERT	TOTAL	—	—
AA	11-11-4	-55	-70	—	FRONT	VERT	TOTAL	—	—
AB	13-0-0	-55	-70	—	FRONT	VERT	TOTAL	—	—
AC	15-0-12	-55	-70	—	FRONT	VERT	TOTAL	—	—
AD	17-0-12	-55	-70	—	FRONT	VERT	TOTAL	—	—
AE	19-0-12	-55	-70	—	FRONT	VERT	TOTAL	—	—
AF	23-0-12	-55	-70	—	FRONT	VERT	TOTAL	—	—
AG	25-0-12	-55	-74	—	FRONT	VERT	TOTAL	—	—



DWG NO. TAM 11710920
STRUCTURAL
COMPONENT ONLY 3/2

JOB NAME 200142-400307	TRUSS NAME T2	QUANTITY 1	PLY 1	JOB DESC. Brentwood 3A	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Wed May 8 14:07:00 2019 Page 1 ID: Vftg?WpQXf6eSfxbzMzP9f-BxdphVcS3xLfZlclJJIIBOrv4INDqKf5sOK4ZzYmV	



TOTAL WEIGHT = 109 lb
[M/F]

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

ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
O - C	2x4	DRY	No.2	SPF
G - J	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMV+p	MT20	3.0	4.0		
C TMVW+I	MT20	5.0	6.0		
D TTWW-m	MT20	5.0	6.0	2.25	2.00
E TMVW+w	MT20	2.0	4.0		
F TTWW-m	MT20	5.0	6.0	2.25	2.00
G TMVW+I	MT20	5.0	6.0		
H TMV+p	MT20	3.0	4.0		
J BMVW+I	MT20	4.0	9.0		Edge
K BMVW+I	MT20	4.0	4.0		
L BS-I	MT20	3.0	6.0		
M BMVW+I	MT20	4.0	9.0		
N BMVW+I	MT20	4.0	4.0		
O BMVW+I	MT20	4.0	9.0		Edge

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
O	2037	0	2037	0	5-8
J	2037	0	2037	0	5-8

UNFACTORED REACTIONS							
	1ST CASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
O	1514	863 / 0	284 / 0	0 / 0	0 / 0	367 / 0	0 / 0
J	1514	863 / 0	284 / 0	0 / 0	0 / 0	367 / 0	0 / 0

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

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		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0 / 31	C-N	-3 / 138
B-C	0 / 19	N-D	0 / 375
C-D	-2533 / 0	D-M	0 / 647
D-E	-2746 / 0	M-E	-702 / 0
E-F	-2746 / 0	M-F	0 / 647
F-G	-2533 / 0	K-F	0 / 375
G-H	0 / 19	K-G	-3 / 138
H-I	0 / 31	O-C	-2768 / 0
O-B	-289 / 0	G-J	-2768 / 0
J-H	-289 / 0		
O-N	0 / 2250		
N-M	0 / 2254		
M-L	0 / 2254		
L-K	0 / 2254		
K-J	0 / 2250		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 28.1 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 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012
- 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 28.1 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.30")
CALCULATED VERT. DEFL.(LL) = L/589 (0.18")
ALLOWABLE DEFL.(TL) = L/360 (0.30")
CALCULATED VERT. DEFL.(TL) = L/999 (0.30")

CSH: TC=0.52/1.00 (D-E-1), BC=0.71/1.00 (K-M-2), WB=0.77/1.00 (G-J-1), SS=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

AUTOSOLVE HEELS OFF

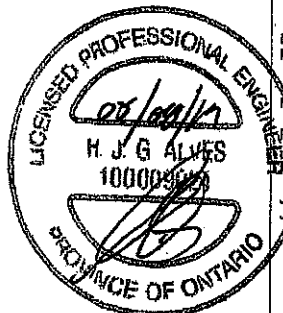
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES			
PLATE	GRIP (DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MT20	618	354	1867
	788	1887	1858

PLATE PLACEMENT TOL = 0.250 inches

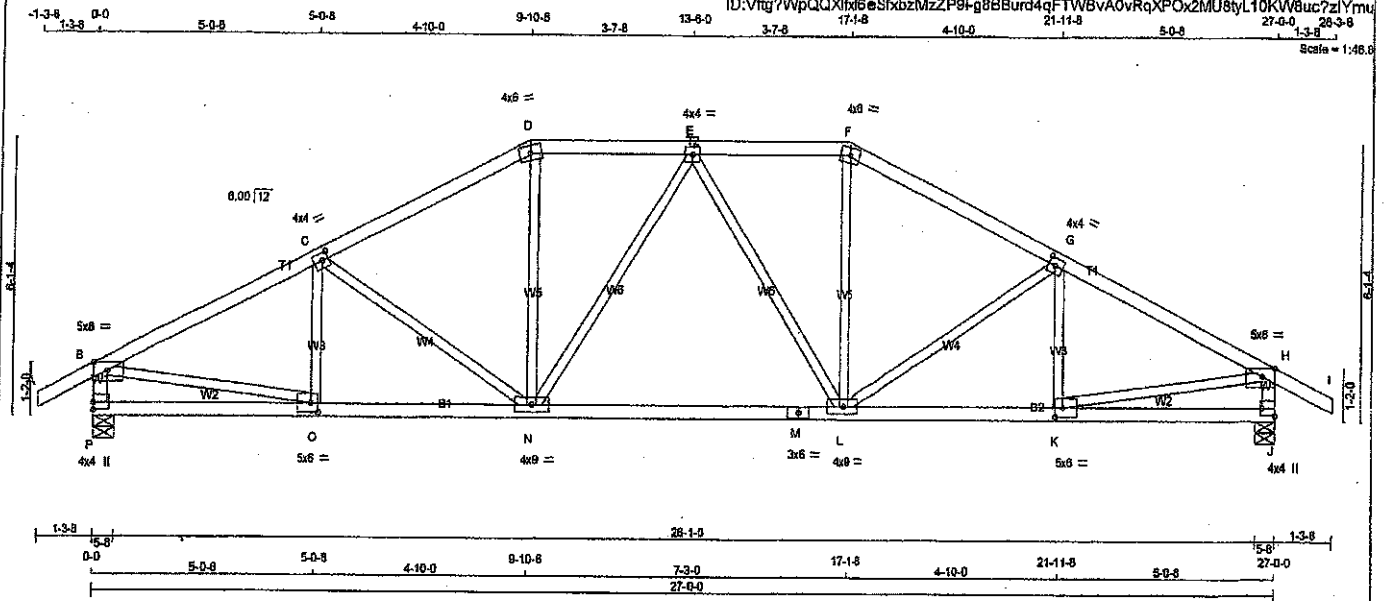
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.86 (G) (INPUT = 0.90)
JSI METAL= 0.73 (L) (INPUT = 1.00)



DWG NO. TAM 1910921
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
200142-400307	T3	1	1	Brentwood 3A	
Tamarack Roof Truss, Burlington					



TOTAL WEIGHT = 111 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 - M	2x4	DRY	No.2	SPF	
M - J	2x4	DRY	No.2	SPF	

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

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMW-p	MT20	5.0	8.0	Edge	3.50
C	TMW-w	MT20	4.0	4.0	2.00	1.75
D	TTW-n	MT20	4.0	6.0		
E	TMW-w	MT20	4.0	4.0		
F	TTW-n	MT20	4.0	6.0		
G	TMW-w	MT20	4.0	4.0	2.00	1.75
H	TMW-p	MT20	5.0	8.0	Edge	3.50
J	BMV-t	MT20	4.0	4.0	2.00	Edge
K	BMW-t	MT20	5.0	6.0	2.50	2.00
L	BMW-w	MT20	4.0	9.0		
M	BS-t	MT20	3.0	6.0		
N	BMW-w	MT20	4.0	9.0		
O	BMW-t	MT20	5.0	6.0	2.50	2.00
P	BMV-p	MT20	4.0	4.0		

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
P	2037	0	2037	0	5-8	5-8
J	2037	0	2037	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST CASE		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
P	1514	863 / 0	284 / 0	0 / 0	0 / 0	367 / 0	0 / 0
J	1514	863 / 0	284 / 0	0 / 0	0 / 0	367 / 0	0 / 0

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

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.

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. UNBRACED LENGTH (FT)	MAX. FACTORED FORCE (LBS)
FR-TO				
A-B	0 / 31	-102.1 -102.1 0.13 (1)	10.00	O-C -221 / 84 0.05 (1)
B-C	-2683 / 0	-102.1 -102.1 0.41 (1)	3.88	C-N -410 / 0 0.26 (1)
C-D	-2337 / 0	-102.1 -102.1 0.38 (1)	4.14	N-D 0 / 688 0.16 (1)
D-E	-2078 / 0	-102.1 -102.1 0.20 (1)	4.53	E-N -258 / 0 0.22 (1)
E-F	-2078 / 0	-102.1 -102.1 0.20 (1)	4.53	F-N -258 / 0 0.22 (1)
F-G	-2337 / 0	-102.1 -102.1 0.38 (1)	4.14	L-F 0 / 688 0.16 (1)
G-H	-2683 / 0	-102.1 -102.1 0.41 (1)	3.88	L-G -410 / 0 0.26 (1)
H-I	0 / 31	-102.1 -102.1 0.13 (1)	10.00	K-G -221 / 84 0.05 (1)
P-B	-1951 / 0	0.0 0.0 0.20 (1)	6.03	B-O 0 / 2438 0.55 (1)
J-H	-1951 / 0	0.0 0.0 0.20 (1)	6.03	K-H 0 / 2438 0.55 (1)
P-O	0 / 0	-38.5 -38.5 0.16 (3)	10.00	
O-N	0 / 2404	-38.5 -38.5 0.58 (1)	10.00	
N-M	0 / 2211	-38.5 -38.5 0.53 (2)	10.00	
M-L	0 / 2211	-38.5 -38.5 0.53 (2)	10.00	
L-K	0 / 2404	-38.5 -38.5 0.56 (1)	10.00	
K-J	0 / 0	-38.5 -38.5 0.16 (3)	10.00	

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 28.1 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 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2010, OBC 2012
- CSA 088-08, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 37.5 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 29.1 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/880 (0.60")
CALCULATED VERT. DEFL. (LL) = L/889 (0.13")
ALLOWABLE DEFL. (TL) = L/360 (0.90")
CALCULATED VERT. DEFL. (TL) = L/899 (0.23")

CSI: TD=0.41/1.00 (G-H-1), BC=0.58/1.00 (N-O-1)
WB=0.55/1.00 (B-C-1), SS=0.22/1.00 (G-H-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

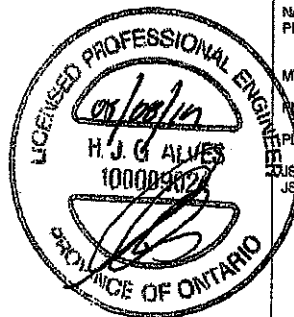
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1857 788 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

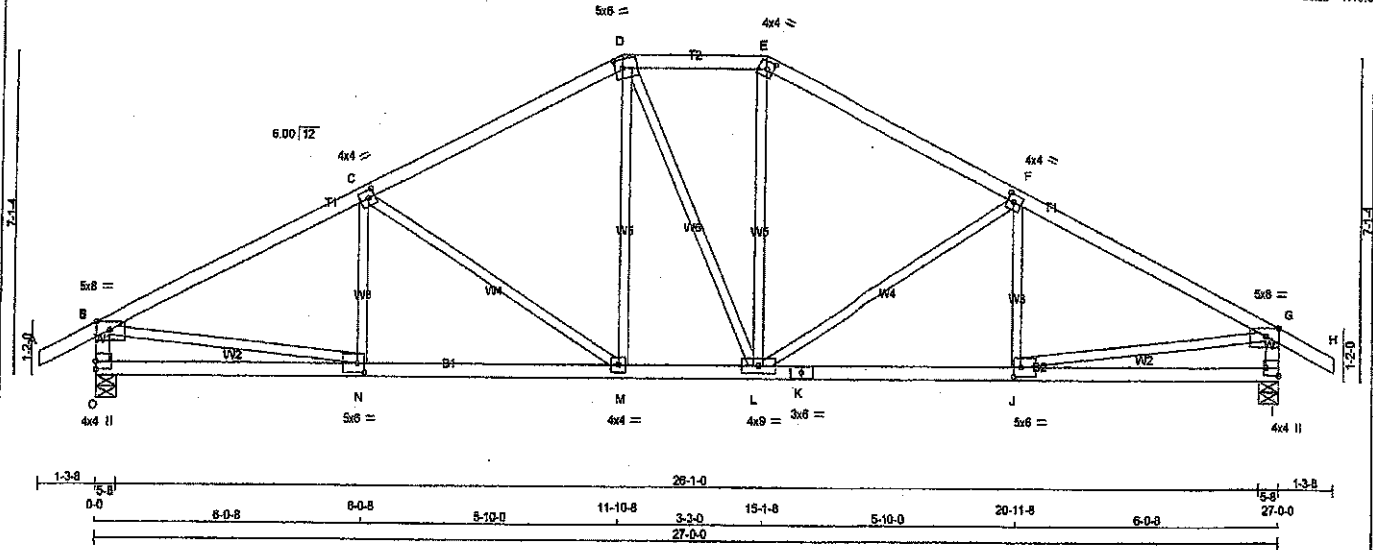
GRIP=0.78 (K) (INPUT = 0.90)
METAL=0.85 (M) (INPUT = 1.00)



DRWG NO. TAM 77910922
STRUCTURAL
COMPONENT ONLY

JOB NAME 200142-400307	TRUSS NAME T4	QUANTITY 1	PLY 1	JOB DESC. Brentwood 3A	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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 15-1-8 5-10-0 20-11-8 6-0-8 27-0-0 28-3-8
 Scale = 1/4" = 1'-0"



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
O - B	2x4	DRY	No.2	SPF
I - G	2x4	DRY	No.2	SPF
O - K	2x4	DRY	No.2	SPF
K - 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	TM/VW-p	MT20	5.0	8.0	Edge 3.50
C	TM/VW-t	MT20	4.0	4.0	2.00 1.75
D	TT/VW-m	MT20	5.0	5.0	2.25 2.00
E	TT/VW-h	MT20	4.0	4.0	2.00 1.75
F	TM/VW-t	MT20	4.0	4.0	2.00 1.75
G	TM/VW-p	MT20	5.0	8.0	Edge 3.50
I	BM/V-t	MT20	4.0	4.0	2.00 Edge
J	BM/VW-t	MT20	5.0	6.0	2.50 2.00
K	BS-1	MT20	3.0	6.0	
L	BM/VW-t	MT20	4.0	9.0	
M	BM/VW-t	MT20	4.0	4.0	
N	BM/VW-t	MT20	5.0	6.0	2.50 2.00
O	BM/V-t	MT20	4.0	4.0	

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
O	2037	0	2037	0	5-8	5-8
I	2037	0	2037	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST CASE		MAX/MIN COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
O	1514	853 / 0	284 / 0	0 / 0	0 / 0	387 / 0	0 / 0
I	1514	853 / 0	284 / 0	0 / 0	0 / 0	387 / 0	0 / 0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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)	MAX. UNBRACED LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)
A-B	0 / 31	-102.1	-102.1 0.13 (1)	10.00	N-C	-84 / 185	0.04 (3)
B-C	-2894 / 0	-102.1	-102.1 0.51 (1)	3.63	C-M	-592 / 0	0.67 (1)
C-D	-2111 / 0	-102.1	-102.1 0.53 (1)	4.11	M-D	0 / 537	0.12 (1)
D-E	-1668 / 0	-102.1	-102.1 0.18 (1)	4.78	D-L	0 / 4	0.00 (1)
E-F	-2113 / 0	-102.1	-102.1 0.53 (1)	4.11	L-E	0 / 541	0.12 (1)
F-G	-2693 / 0	-102.1	-102.1 0.51 (1)	3.63	L-F	-589 / 0	0.66 (1)
G-H	0 / 31	-102.1	-102.1 0.13 (1)	10.00	J-F	-88 / 183	0.04 (3)
C-B	-1942 / 0	0.0	0.0 0.20 (1)	8.04	B-N	0 / 2462	0.55 (1)
I-G	-1942 / 0	0.0	0.0 0.20 (1)	8.04	J-G	0 / 2461	0.55 (1)
O-N	0 / 0	-38.5	-38.5 0.27 (3)	10.00			
N-M	0 / 2438	-38.5	-38.5 0.58 (2)	10.00			
M-L	0 / 1866	-38.5	-38.5 0.40 (1)	10.00			
L-K	0 / 2437	-38.5	-38.5 0.57 (2)	10.00			
K-J	0 / 2437	-38.5	-38.5 0.57 (2)	10.00			
J-I	0 / 0	-38.5	-38.5 0.27 (3)	10.00			

TOTAL WEIGHT = 113 LB

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 29.1 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 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:
 - PART 9 OF CBC 2018, OBC 2012
 - CSA 086-08, CSA 086-14
 - TPIC 2011, TPIC 2014

(55 % OF 37.5 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.1 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.80")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.12")
 ALLOWABLE DEFL.(TL) = L/360 (0.80")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.20")

CSI: TC=0.61/1.00 (B-C:1), BC=0.58/1.00 (M-N:2), WB=0.87/1.00 (C-M:1), SSI=0.26/1.00 (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.

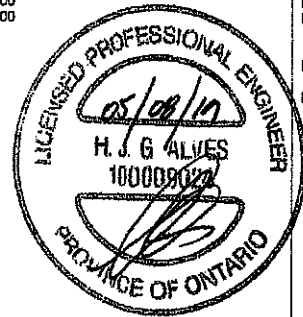
NAIL VALUES

PLATE GRIP (DRY)	SHEAR	SECTION (PSI)	(PL)	(PL)
MT20	618	354	1687	788
			1987	1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

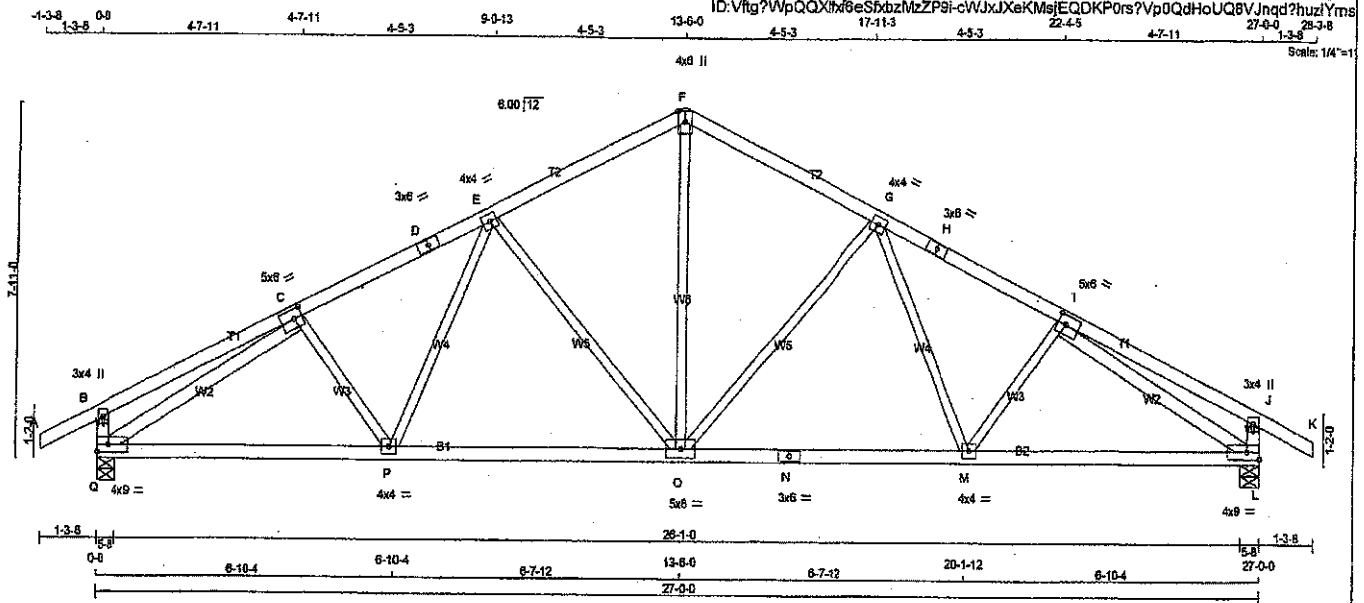
SI GRIP= 0.84 (E) (INPUT = 0.90)
 SI METAL= 0.71 (K) (INPUT = 1.00)



DWG NO. TAM 171910 9023
 STRUCTURAL
 COMPONENT ONLY

JOB NAME 200142-400307	TRUSS NAME T5	QUANTITY 11	PLY 1	JOB DESC. Brentwood 3A	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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TOTAL WEIGHT = 11 X 114 = 1251 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMVW-1	MT20	5.0	6.0	2.50	2.25
D	TS-1	MT20	3.0	6.0		
E	TMVW-1	MT20	4.0	4.0		
F	TTW+p	MT20	4.0	6.0	Edge	
G	TMVW-1	MT20	4.0	4.0		
H	TS-1	MT20	3.0	6.0		
I	TMVW-1	MT20	5.0	6.0	2.50	2.25
J	TMV+p	MT20	3.0	4.0		
L	BMVW-1	MT20	4.0	9.0	Edge	
M	BMVW-1	MT20	4.0	4.0		
N	BS-1	MT20	3.0	6.0		
O	BMVW-1	MT20	5.0	9.0		
P	BMVW-1	MT20	4.0	4.0		
Q	BMVW-1	MT20	4.0	9.0	Edge	

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

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

BEARINGS			
JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG
Q	2037 0	2037 0	5-8
L	2037 0	2037 0	5-8

UNFACTORED REACTIONS			
JT	1ST LCASE COMBINED	MAX. MIN. COMPONENT REACTIONS	
Q	1514	863/0	284/0
L	1514	863/0	284/0

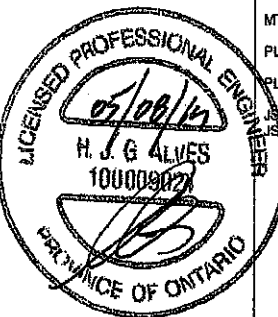
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) Q, L

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.08 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. FACTORED CSI (LC)
FR-TO			
A-B	0/31	-102.1 -102.1	0.13 (1)
B-C	0/17	-102.1 -102.1	0.25 (1)
C-D	-2561/0	-102.1 -102.1	0.30 (1)
D-E	-2561/0	-102.1 -102.1	0.30 (1)
E-F	-1921/0	-102.1 -102.1	0.28 (1)
F-G	-1921/0	-102.1 -102.1	0.28 (1)
G-H	-2561/0	-102.1 -102.1	0.30 (1)
H-I	-2561/0	-102.1 -102.1	0.30 (1)
I-J	0/17	-102.1 -102.1	0.25 (1)
J-K	0/31	-102.1 -102.1	0.13 (1)
Q-B	-331/0	0.0 0.0	0.03 (1)
L-J	-331/0	0.0 0.0	0.03 (1)
Q-P	0/2320	-38.5 -38.5	0.82 (2)
P-O	0/2158	-38.5 -38.5	0.60 (2)
O-N	0/2158	-38.5 -38.5	0.60 (2)
N-M	0/2158	-38.5 -38.5	0.60 (2)
M-L	0/2320	-38.5 -38.5	0.82 (2)



DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 20.1 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, 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 28.1 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.30")
CALCULATED VERT. DEFL. (LL) = 1/998 (0.11")
ALLOWABLE DEFL. (TL) = L/360 (0.30")
CALCULATED VERT. DEFL. (TL) = 1/999 (0.18")

CS: TC=0.30/1.00 (G-I:1), BC=0.62/1.00 (L-M:2), WB=1.00/1.00 (H-L:1), SS=0.19/1.00 (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

AUTOSOLVE HEELS OFF

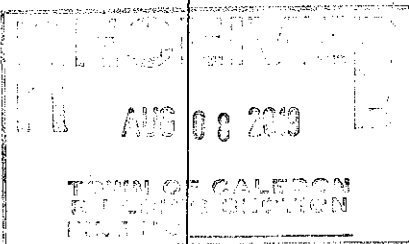
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 768 1987 1656
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

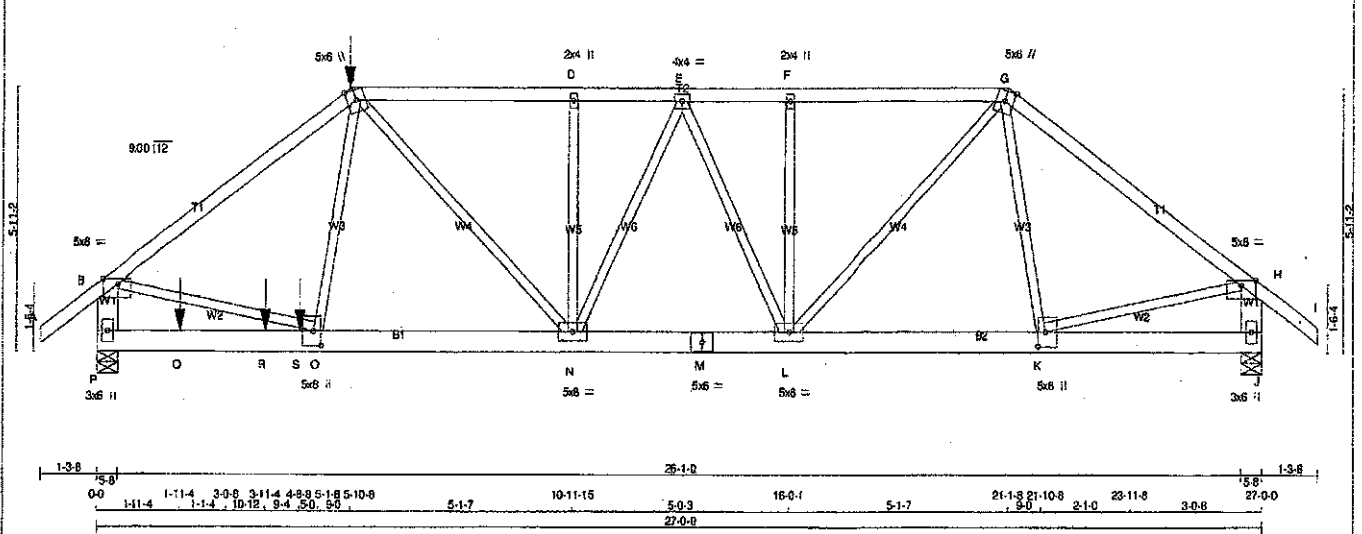
GRIP= 0.85 (C) (INPUT = 0.90)
METAL= 0.77 (N) (INPUT = 1.00)

DRWG NO. TAM 12910924
STRUCTURAL
COMPONENT ONLY



JOB NAME: 200142-400342 TRUSS NAME: T6Z QUANTITY: 1 PLY: 2 JOB DESC: Brentwood 3A DRWG NO. TRUSS DESC.

Tamarack Roof Truss, Burlington Version 8.300 S Apr 23 2019 MITek Industries, Inc. Tue May 14 14:50:57 2019 Page 1
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LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER DESCR.

A - C	2x4	DRY	No.2	SPF
C - G	2x4	DRY	No.2	SPF
G - I	2x4	DRY	No.2	SPF
P - B	2x6	DRY	No.2	SPF
J - H	2x6	DRY	No.2	SPF
P - M	2x6	DRY	No.2	SPF
M - J	2x6	DRY	No.2	SPF

ALL WEBS EXCEPT 2x3 DRY No.2 SPF

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

CHORDS #ROWS SURFACE SPACING (IN) LOAD (PLF)

TOP CHORDS: (0.122"x3") SPIRAL NAILS			
A-C	1	12	SIDE(61.0)
C-G	1	12	SIDE(61.0)
G-I	1	12	TOP
P-B	2	12	TOP
J-H	2	12	TOP
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS			
P-M	2	12	SIDE(0.0)
M-J	2	12	TOP
WEBS: (0.122"x3") SPIRAL NAILS			
C-C	1	6	SIDE(14.3)
2x2	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 TMW-p	MT20	5.0	8.0	Edge	
C TTWW-m	MT20	5.0	6.0	Edge	
D TMW-w	MT20	2.0	4.0		
E TMWW-l	MT20	4.0	4.0		
F TMW-w	MT20	2.0	4.0		
G TTWW-m	MT20	5.0	6.0	Edge	
H TMW-p	MT20	5.0	8.0	Edge	
J BMV-l-p	MT20	3.0	6.0		
K BMWW-l	MT20	5.0	8.0	4.00	2.00
L BMWW-l	MT20	5.0	8.0		
M BS-l	MT20	5.0	8.0		
N BMWW-l	MT20	5.0	8.0		
O BMWW-l	MT20	5.0	8.0	4.00	2.00
P BMV-l-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	REQD BRG
JT VERT	3862	0	0	5-8
JT HORZ	2332	0	0	5-8

UNFACTORED REACTIONS

	1ST LOASE	MAX/MIN COMPONENT REACTIONS					
JT COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
P	3075	1769 / 0	584 / 0	0 / 0	741 / 0	0 / 0	
J	1853	1072 / 0	336 / 0	0 / 0	445 / 0	0 / 0	

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.19 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

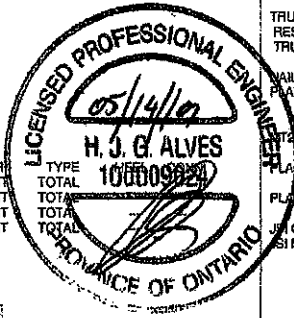
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING
TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO	0 / 42	FR-TO	0 / 289
A-B	-102.1	C-N	0.04 (1)
B-C	-4168 / 0	N-D	0.14 (1)
C-D	-3349 / 0	D-E	0.14 (1)
D-E	-3349 / 0	E-F	0.18 (1)
E-F	-2971 / 0	F-G	0.05 (1)
F-G	-2971 / 0	G-H	0.16 (1)
G-H	-2366 / 0	H-I	0.16 (1)
H-I	0 / 42	I-J	0.42 (1)
P-B	-3665 / 0	J-K	0.07 (1)
J-H	-2273 / 0	K-H	0.24 (1)
P-Q	0 / 0		
Q-R	0 / 0		
R-S	0 / 0		
S-O	0 / 0		
O-N	0 / 3154		
N-M	0 / 3172		
M-L	0 / 3172		
L-K	0 / 1928		
K-J	0 / 0		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DRY
C	5-11-1	-522	-522	---	BACK	VERT
Q	1-11-4	-54	-95	---	BACK	VERT
R	3-11-4	-54	-95	---	BACK	VERT
S	4-8-8	-1769	-1769	---	BACK	VERT



DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.1 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 2.00/12 MINIMUM

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, CBC2012, ABC 2014
- CSA 086-09
- TPC 2011

(55 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.1 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.90")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = 1/999 (0.10")

CS: TC=0.55/1.00 (B-C:1), BC=0.33/1.00 (N-O:1), WB=0.42/1.00 (B-O:1), SS=0.80/1.00 (O-P: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 = 0.50

AUTOSOLVE HEELS OFF

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

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

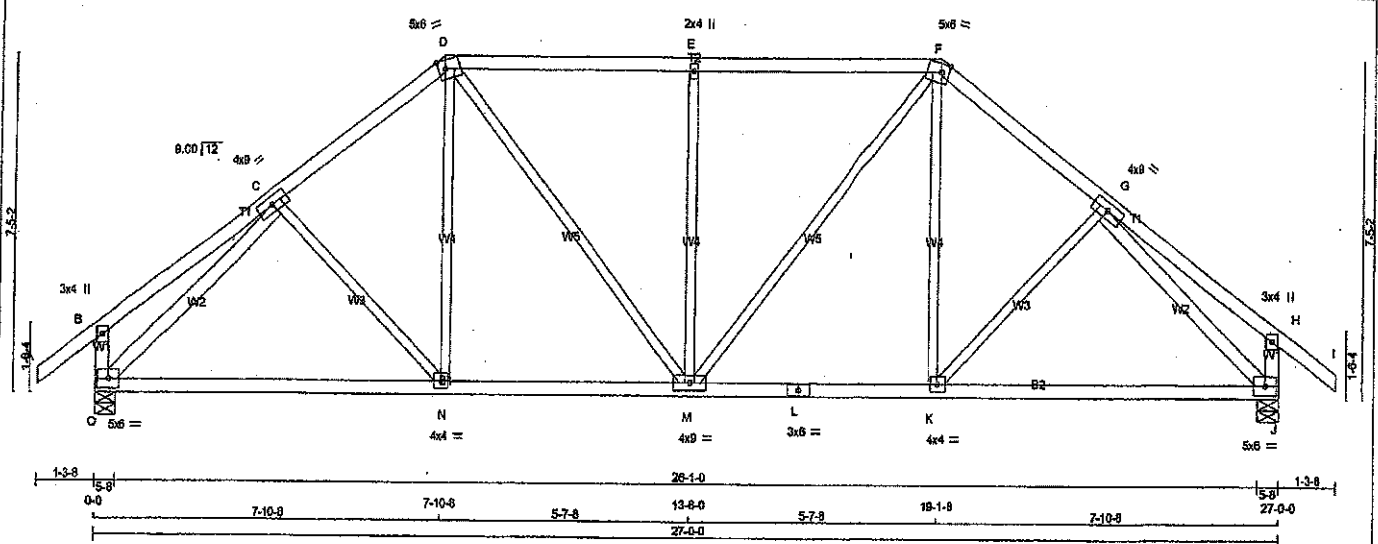
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JT GRIP = 0.74 (K) (INPUT = 0.90)
SI METAL = 0.57 (Q) (INPUT = 1.00)

Structural component only
DWG# T-1911563

JOB NAME 200142-400307	TRUSS NAME T7	QUANTITY 2	PLY 1	JOB DESC. Brentwood 3A	TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.230.6 Nov 17 2018 Mitek Industries, Inc. Wed May 8 14:07:04 2019 Page 1 ID: Vllg?WpQQXtfx8eSfxbzMzZP9l-4lsKXW7Ar52NybazNE11ZYqh8r9d2S0UMYDK2Ym		



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B	TMV+p	MT20	3.0	4.0
C	TMVW+I	MT20	4.0	9.0
D	TTVW+m	MT20	5.0	6.0
E	TMVW+w	MT20	2.0	4.0
F	TTVW+m	MT20	5.0	6.0
G	TMVW+I	MT20	4.0	9.0
H	TMV+p	MT20	3.0	4.0
J	BMVW+I	MT20	5.0	6.0
K	BMVW+I	MT20	4.0	4.0
L	BS-I	MT20	3.0	6.0
M	BMVW+I	MT20	4.0	9.0
N	BMVW+I	MT20	4.0	4.0
O	BMVW+I	MT20	5.0	6.0

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

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

BEARINGS			
FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT VERT	DOWN	UP	IN-SX
O	2039	0	5-8
J	2039	0	5-8

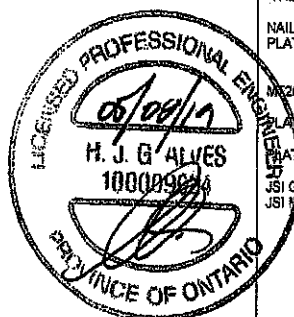
UNFACTORED REACTIONS						
JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	FACTORED	MAXIMUM FACTORED	INPUT	REQRD
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
O	1515	864 / 0	284 / 0	0 / 0	0 / 0	368 / 0
J	1515	864 / 0	284 / 0	0 / 0	0 / 0	368 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.42 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING			
TOTAL LOAD CASES: (4)			
CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED MOM. (FT-LB)
FR-TO			
A-B	0 / 42	-102.1	-102.1 0.14 (1)
B-C	0 / 27	-102.1	-102.1 0.23 (1)
C-D	-1927 / 0	-102.1	-102.1 0.24 (1)
D-E	-1854 / 0	-102.1	-102.1 0.46 (1)
E-F	-1854 / 0	-102.1	-102.1 0.46 (1)
F-G	-1927 / 0	-102.1	-102.1 0.24 (1)
G-H	0 / 27	-102.1	-102.1 0.25 (1)
H-I	0 / 42	-102.1	-102.1 0.14 (1)
O-B	-286 / 0	0.0	0.0 0.03 (1)
J-H	-286 / 0	0.0	0.0 0.03 (1)
O-N	0 / 1535	-38.5	-38.5 0.61 (2)
N-M	0 / 1522	-38.5	-38.5 0.61 (2)
M-L	0 / 1522	-38.5	-38.5 0.61 (2)
L-K	0 / 1522	-38.5	-38.5 0.61 (2)
K-J	0 / 1535	-38.5	-38.5 0.61 (2)



TOTAL WEIGHT = 2 X 125 = 249 lb

(MIF)

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.1 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 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012
- CSA D86-09, CSA D86-14
- TPIC 2011, TPIC 2014

(56 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.1 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.90")
CALCULATED VERT. DEFL. (LL) = L/989 (0.16")
ALLOWABLE DEFL. (TL) = L/360 (0.90")
CALCULATED VERT. DEFL. (TL) = L/989 (0.27")

CSI: TC=0.49/1.00 (D-E-1), BC=0.61/1.00 (K-M-2), WB=0.63/1.00 (G-J-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 (PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
#20 618 354 1667 768 1967 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

CSI GRIP = 0.87 (C) (INPUT = 0.90)

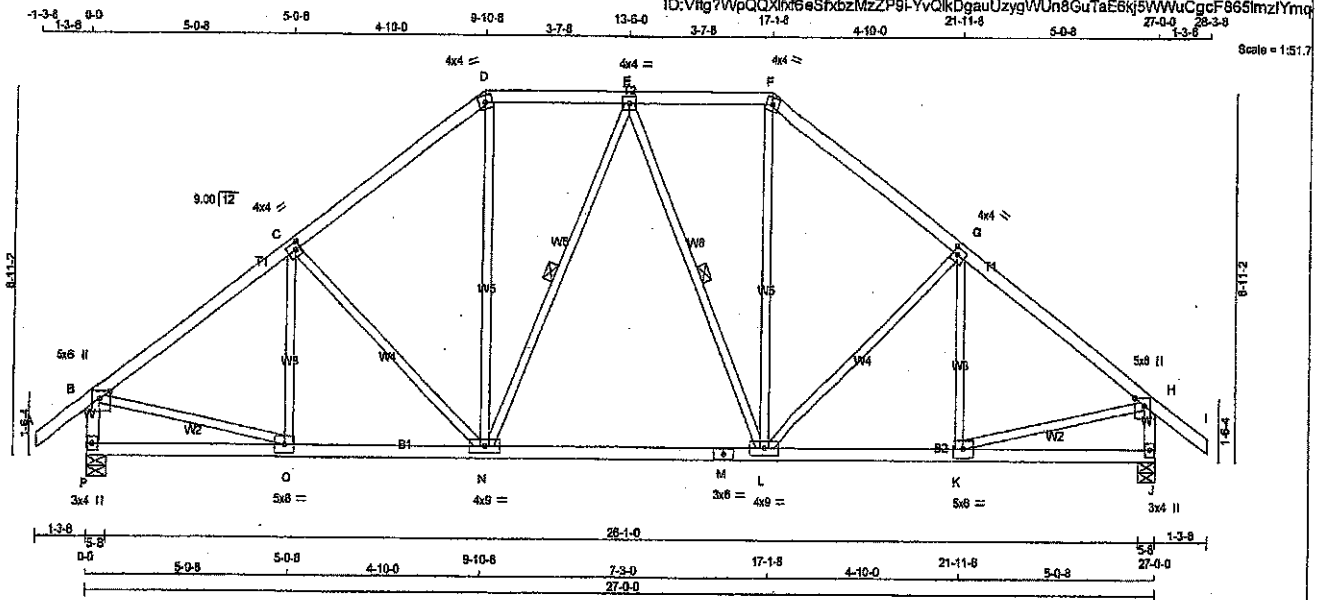
CSI METAL = 0.51 (L) (INPUT = 1.00)

DWG NO. TAM 17410926
STRUCTURAL
COMMENT ONLY

JOB NAME: 200142-400307 TRUSS NAME: T8 QUANTITY: 3 PLY: 1 JOB DESC: Brentwood 3A TRUSS DESC: DRWG NO.

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Wed May 8 14:07:05 2019 Page 1
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TOTAL WEIGHT = 3 X 128 = 385 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 - M	2x4	DRY	No.2	SPF
M - J	2x4	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT. TYPE	PLATES	W	LEN	Y	X
B	TMWW-p	MT20	5.0	6.0	Edge 3.00
C	TMWW-i	MT20	4.0	4.0	2.00 1.50
D	TTW-m	MT20	4.0	4.0	
E	TMWW-i	MT20	4.0	4.0	
F	TTW-m	MT20	4.0	4.0	
G	TMWW-i	MT20	4.0	4.0	2.00 1.50
H	TMWW-p	MT20	5.0	6.0	Edge 3.00
J	BMV1-p	MT20	3.0	4.0	
K	BMWW-i	MT20	5.0	6.0	
L	BMWW-i	MT20	4.0	9.0	
M	BS-1	MT20	3.0	6.0	
N	BMWW-i	MT20	4.0	9.0	
O	BMWW-i	MT20	5.0	6.0	
P	BMV1-p	MT20	3.0	4.0	

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	UP	IN-SX
P	2039	0	0	5-8
J	2039	0	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX. MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
P	1515	884 / 0	284 / 0	0 / 0	0 / 0	388 / 0	0 / 0
J	1515	884 / 0	284 / 0	0 / 0	0 / 0	388 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.40 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, E-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 LC1 (PLP)	MAX. UNBRACED LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH FR-TO	MAX. UNBRACED LENGTH TO
A-B	0 / 42	-102.1	-102.1 0.14 (1)	10.00	O-C	-194 / 78	0.08 (1)
B-C	-2013 / 0	-102.1	-102.1 0.39 (1)	4.40	C-N	-351 / 0	0.33 (1)
C-D	-1778 / 0	-102.1	-102.1 0.35 (1)	4.84	N-D	0 / 710	0.16 (1)
D-E	-1399 / 0	-102.1	-102.1 0.17 (1)	5.33	L-F	0 / 710	0.16 (1)
E-F	-1399 / 0	-102.1	-102.1 0.17 (1)	5.33	L-G	-351 / 0	0.33 (1)
F-G	-1778 / 0	-102.1	-102.1 0.35 (1)	4.84	K-G	-194 / 78	0.08 (1)
G-H	-2013 / 0	-102.1	-102.1 0.39 (1)	4.40	B-O	0 / 1684	0.38 (1)
H-I	0 / 42	-102.1	-102.1 0.14 (1)	10.00	K-H	0 / 1684	0.38 (1)
P-B	-1956 / 0	0.0	0.0 0.20 (1)	8.02	N-E	-235 / 0	0.14 (1)
J-H	-1956 / 0	0.0	0.0 0.20 (1)	8.02	E-L	-235 / 0	0.14 (1)
P-O	0 / 0	-38.5	-38.5 0.16 (3)	10.00			
O-N	0 / 1638	-38.5	-38.5 0.45 (2)	10.00			
N-M	0 / 1488	-38.5	-38.5 0.43 (2)	10.00			
M-L	0 / 1488	-38.5	-38.5 0.43 (2)	10.00			
L-K	0 / 1638	-38.5	-38.5 0.45 (2)	10.00			
K-J	0 / 0	-38.5	-38.5 0.16 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.1 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 2.00/12 MINIMUM

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

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

(55 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.1 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.90")
CALCULATED VERT. DEFL.(LL) = L/999 (0.10")
ALLOWABLE DEFL.(TL) = L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

CSI: TC=0.39/1.00 (G-H-1), BC=0.45/1.00 (K-L-2),
WB=0.38/1.00 (H-K-1), SSI=0.20/1.00 (G-H-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

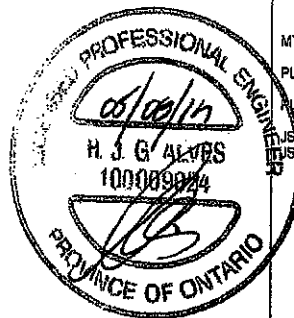
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 518 354 1867 788 1987 1656

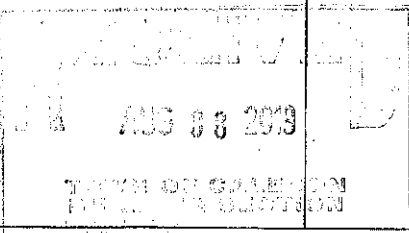
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

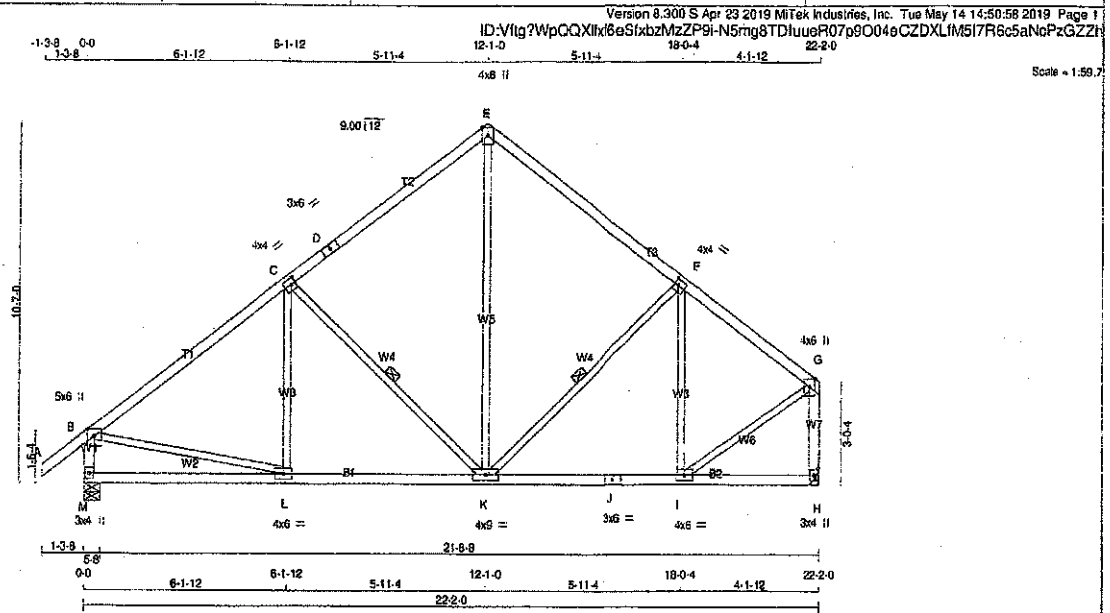
GRIP=0.90 (B) (INPUT = 0.90)
METAL=0.45 (M) (INPUT = 1.00)



DRWG NO. TAM 07910987
STRUCTURAL
COMPONENT ONLY



JOB NAME: 200142-400342 TRUSS NAME: T31 QUANTITY: 3 PLY: 1 JOB DESC.: Brentwood 3A DRWG NO.:
 Tamarack Roof Truss, Burlington



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 - G	2x4	DRY	No.2	SPF
M - B	2x4	DRY	No.2	SPF
H - G	2x4	DRY	No.2	SPF
M - J	2x4	DRY	No.2	SPF
J - H	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	6.0	Edge	
C TMVW-l	MT20	4.0	4.0	2.00	1.50
D TS-l	MT20	3.0	6.0		
E TTW-p	MT20	4.0	6.0	Edge	
F TMVW-l	MT20	4.0	4.0	2.00	1.50
G TMVW-p	MT20	4.0	6.0	Edge	
H BMV1-p	MT20	3.0	4.0		
I BMVW-l	MT20	4.0	6.0		
J 9S-l	MT20	3.0	6.0		
K BMVW-l	MT20	4.0	6.0		
L BMVW-l	MT20	4.0	6.0		
M BMV1-p	MT20	3.0	4.0		

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

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

BEARINGS

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	DOWN	IN-SX	IN-SX
M 1593	0	5-8	5-8
H 1442	0	MECHANICAL	

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

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERALIVE WIND DEAD SOIL
M 1261	724 / 0 233 / 0 0 / 0 305 / 0 0 / 0
H 1195	644 / 0 233 / 0 0 / 0 0 / 0 286 / 0 0 / 0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.75 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 C-K, F-K.

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 CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 42	-102.1 -102.1	0.14 (1)	10.00	L-C	-45 / 220	0.05 (3)
B-C	-1454 / 0	-102.1 -102.1	0.55 (1)	4.75	C-K	-585 / 0	0.27 (1)
C-D	-1022 / 0	-102.1 -102.1	0.50 (1)	5.49	K-E	0 / 899	0.18 (1)
D-E	-1022 / 0	-102.1 -102.1	0.50 (1)	5.49	K-F	-179 / 0	0.08 (1)
E-F	-1011 / 0	-102.1 -102.1	0.44 (1)	5.83	F-F	-435 / 0	0.28 (1)
F-G	-1086 / 0	-102.1 -102.1	0.38 (1)	5.55	B-L	0 / 1221	0.27 (1)
M-B	-1513 / 0	0.0 0.0	0.16 (1)	6.88	I-G	0 / 1083	0.24 (1)
H-G	-1400 / 0	0.0 0.0	0.23 (1)	6.88			
M-L	0 / 0	-28.0 -28.0	0.26 (3)	10.00			
L-K	0 / 1199	-28.0 -28.0	0.38 (2)	10.00			
K-J	0 / 909	-28.0 -28.0	0.29 (2)	10.00			
J-I	0 / 909	-28.0 -28.0	0.29 (2)	10.00			
I-H	0 / 0	-28.0 -28.0	0.18 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 29.1 PSF
 DL = 6.0 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

THIS DESIGN COMPLIES WITH:
 - PART 9 OF OBC 2012, BCBC 2012, ABC 2014
 - CSA 096-09
 - TPIC 2011

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.1 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/960 (0.74")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
 ALLOWABLE DEFL.(TL) = L/360 (0.74")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CS: TC=0.55/1.00 (B-C:1), BC=0.38/1.00 (K-L:2), WB=0.27/1.00 (B-L:1), SS=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 = 0.50

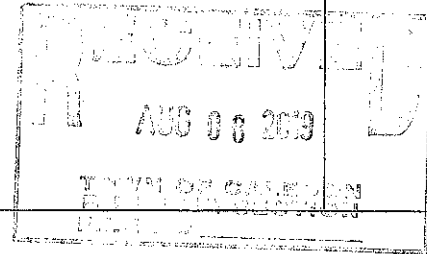
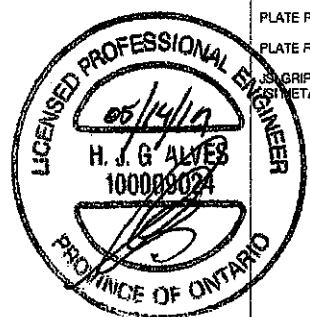
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
 MAX MIN MAX MIN MAX MIN
 MT20 618 354 1687 822 2284 1856

PLATE PLACEMENT TOL = 0.250 inches

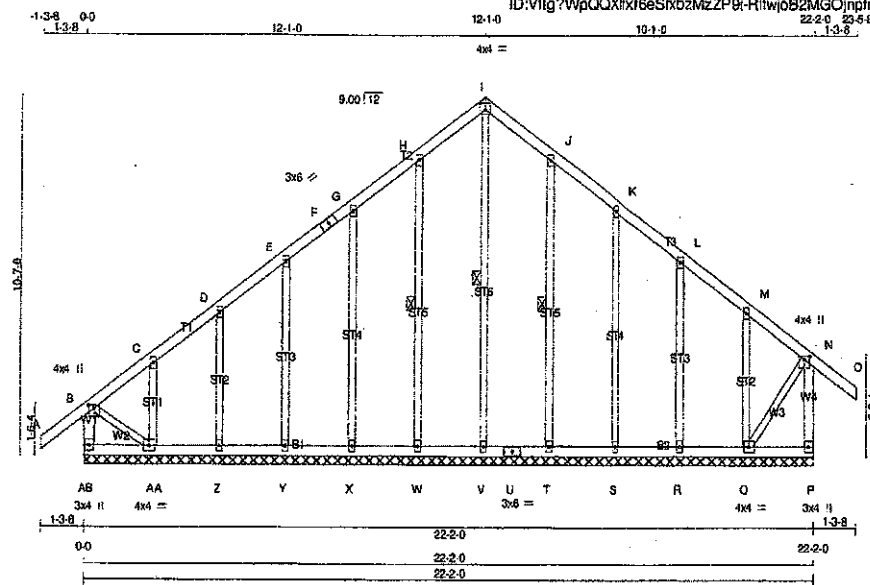
PLATE ROTATION TOL = 5.0 Deg.

SLIP GRIP = 0.89 (B) (INPUT = 0.90)
 METAL = 0.32 (J) (INPUT = 1.00)



Structural component only
 DWG# T-1911564

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
200142-400342	G31	1	1	Brentwood 3A	
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.300 S Apr 28 2019 Mitek Industries, Inc. Tue May 14 14:50:56 2019 Page 1	



TOTAL WEIGHT = 120 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
AB - B	2x4	DRY	No.2
A - F	2x4	DRY	No.2
F - I	2x4	DRY	No.2
I - O	2x4	DRY	No.2
P - N	2x4	DRY	No.2
AB - U	2x4	DRY	No.2
U - P	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
ALL GABLE WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			
GABLE STUDS SPACED AT 2'-0" OC.			

PLATES (table in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMW+p	MT20	4.0	4.0 1.00 2.00
C, D, E, G, H, J, K, L, M	TMW+w	MT20	2.0	4.0
F	TS-t	MT20	3.0	6.0
I	TTW+p	MT20	4.0	4.0 2.25 2.00
N	TMW+p	MT20	4.0	4.0 1.00 2.00
Q	BMW+p	MT20	3.0	4.0
R, S, T, V, W, X, Y, Z	BMW+w	MT20	2.0	4.0
U	SS-t	MT20	3.0	6.0
AA	BMW+t	MT20	4.0	4.0
AS	BMW+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 I-V, H-W, J-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 (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	CS (LC)
FR-TO				FR-TO			
AB-B	-261 / 0	0.0	0.03 (1)	V-1	-158 / 0	0.12 (1)	
A-B	0 / 42	-102.1	-102.1 0.14 (1)	W-H	-232 / 0	0.12 (1)	
B-C	-25 / 0	-102.1	-102.1 0.08 (1)	X-G	-197 / 0	0.21 (1)	
C-D	-32 / 0	-102.1	-102.1 0.08 (1)	Y-E	-204 / 0	0.12 (1)	
D-E	-23 / 0	-102.1	-102.1 0.05 (1)	Z-D	-195 / 0	0.06 (1)	
E-F	-20 / 0	-102.1	-102.1 0.05 (1)	AA-C	-225 / 0	0.04 (1)	
F-G	-20 / 0	-102.1	-102.1 0.05 (1)	T-J	-232 / 0	0.12 (1)	
G-H	-14 / 0	-102.1	-102.1 0.08 (1)	S-K	-198 / 0	0.21 (1)	
H-I	-26 / 0	-102.1	-102.1 0.08 (1)	R-L	-197 / 0	0.11 (1)	
I-J	-26 / 0	-102.1	-102.1 0.08 (1)	Q-M	-226 / 0	0.07 (1)	
J-K	-14 / 0	-102.1	-102.1 0.08 (1)	Q-N	0 / 38	0.01 (1)	
K-L	-19 / 0	-102.1	-102.1 0.05 (1)	B-AA	0 / 35	0.01 (1)	
L-M	-26 / 0	-102.1	-102.1 0.08 (1)				
M-N	-17 / 0	-102.1	-102.1 0.08 (1)				
N-O	0 / 42	-102.1	-102.1 0.14 (1)				
P-N	-270 / 0	0.0	0.0 0.04 (1)				
AB-AA	0 / 0	-28.0	-28.0 0.03 (3)				
AA-Z	0 / 23	-28.0	-28.0 0.03 (3)				
Z-Y	0 / 19	-28.0	-28.0 0.02 (3)				
Y-X	0 / 16	-28.0	-28.0 0.02 (3)				
X-W	0 / 13	-28.0	-28.0 0.02 (3)				
W-V	0 / 11	-28.0	-28.0 0.02 (3)				
V-U	0 / 11	-28.0	-28.0 0.02 (3)				
U-T	0 / 11	-28.0	-28.0 0.02 (3)				
T-S	0 / 13	-28.0	-28.0 0.02 (3)				
S-R	0 / 16	-28.0	-28.0 0.02 (3)				
R-Q	0 / 19	-28.0	-28.0 0.03 (3)				
Q-P	0 / 0	-28.0	-28.0 0.03 (3)				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.1 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

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, SCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.1 P.S.F. SPECIFIED ROOF LIVE LOAD

CS: TC=0.14/1.00 (A-B:1), BC=0.03/1.00 (Z-AA:3), WB=0.21/1.00 (K-S:1), SS=0.09/1.00 (A-B:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10
COMPANION LIVE LOAD FACTOR = 0.50

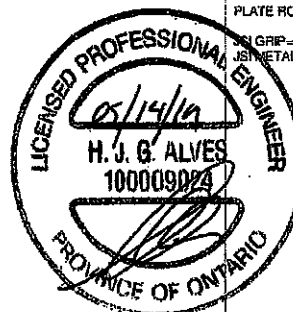
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1658

PLATE PLACEMENT TOL. = 0.25 inches

PLATE ROTATION TOL. = 5.0 Deg.

JS GRIP = 0.49 (I) (INPUT = 0.90)
JS METAL = 0.06 (I) (INPUT = 1.00)

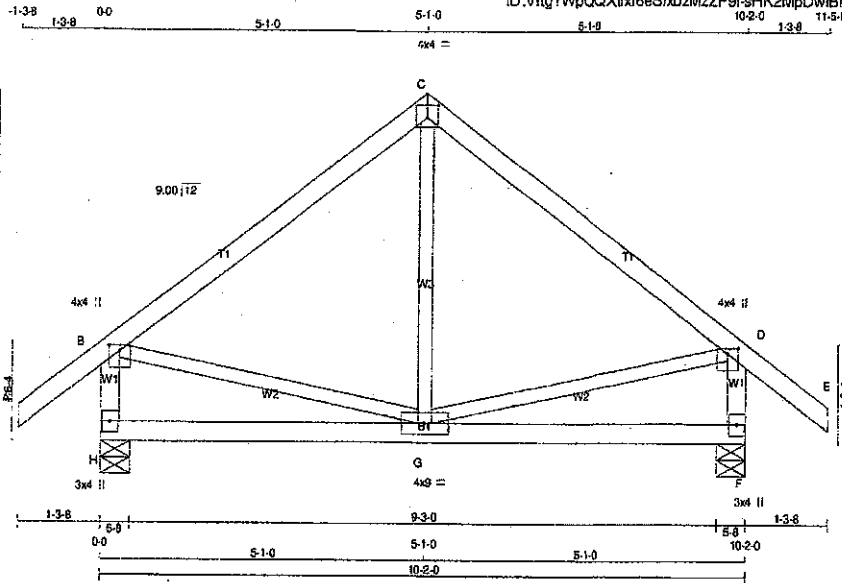


Structural component only
DWG# T-1911562

JOB NAME 200142-400342	TRUSS NAME T32	QUANTITY 1	PLY 1	JOB DESC. Brentwood 3A	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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Scale = 1/32"

TOTAL WEIGHT = 44 lb

LUMBER

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

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	4.0	4.0	1.00	2.00
C	TTW+p	MT20	4.0	4.0	2.25	2.00
D	TMVW+p	MT20	4.0	4.0	1.00	2.00
F	BMV+p	MT20	3.0	4.0		
G	BMVW+p	MT20	4.0	9.0		
H	BMV+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
JT	GROSS REACTION	GROSS REACTION	BRG	BRG
H	VERT	DOWN	IN-SX	IN-SX
F	802	0	5-8	5-8

UNFACTORED REACTIONS

1ST CASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED
H	631
F	631

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
A-B	0/42	-102.1 -102.1 0.14 (1)	G-C	0/218
B-C	-441/0	-102.1 -102.1 0.34 (1)	B-G	0/362
C-D	-441/0	-102.1 -102.1 0.34 (1)	G-D	0/362
D-E	0/42	-102.1 -102.1 0.14 (1)		
H-B	-748/0	0.0 0.0 0.08 (1)		
F-D	-748/0	0.0 0.0 0.08 (1)		
H-G	0/0	-28.0 -28.0 0.23 (3)		
G-F	0/0	-28.0 -28.0 0.23 (3)		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.1 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. CG

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 088-09
- TPC 2011

(55% OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.1 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.34")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.34")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TO=0.34/1.00 (C-D:1), BC=0.23/1.00 (G-H:3), WB=0.08/1.00 (B-G:1), SS=0.18/1.00 (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 = 0.50

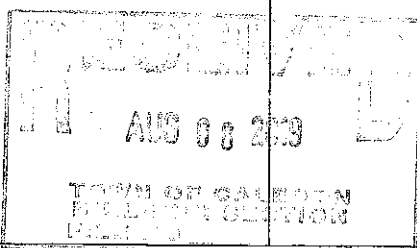
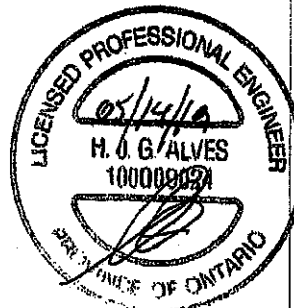
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1657 822 2284 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.69 (D) (INPUT = 0.90)
JSI METAL= 0.18 (D) (INPUT = 1.00)

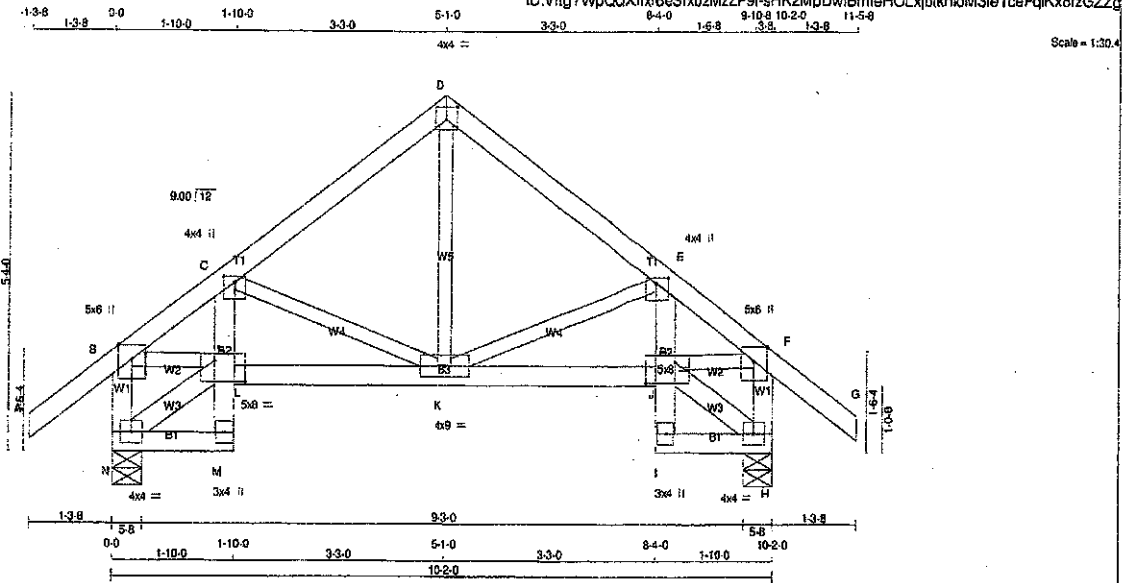


Structural component only
DWG# T-1911565

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	Brentwood 3A	DRWG NO.
200142-400342	T32S	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 3 X 52 = 156 lb

LUMBER

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

DRY: SEASONED LUMBER.

PLATES (inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	5.0	8.0	Edge	2.00
C TMVW+p	MT20	4.0	4.0	1.00	2.00
D ITW+p	MT20	4.0	4.0	2.25	2.00
E TMVW+p	MT20	4.0	4.0	1.00	2.00
F TMVW+p	MT20	5.0	8.0	Edge	
H BMVW1-t	MT20	4.0	4.0		
I BMV+p	MT20	3.0	4.0		
J BMVW1-t	MT20	5.0	8.0	3.75	5.50
K BMVW1-t	MT20	4.0	9.0		
L BMVW1-t	MT20	5.0	8.0	3.75	5.50
M BMV+p	MT20	3.0	4.0		
N BMVW1-t	MT20	4.0	4.0		

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

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
N	802	0	802	0
H	802	0	802	0

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERMATIVE	WIND	DEAD	SOIL
N	631	375 / 0	107 / 0	0 / 0	0 / 0	149 / 0	0 / 0
H	631	375 / 0	107 / 0	0 / 0	0 / 0	149 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED	FORCE	VERT. LOAD LC1	MAX. UNBRACED	MEMB.	MAX. FACTORED	FORCE
		(LBS)	(PLF)	LENGTH			(LBS)
FR-TO					FR-TO		
A-B	0 / 42	-102.1	-102.1	0.14 (1)	10.00	N-L	-31 / 0
B-C	-839 / 0	-102.1	-102.1	0.11 (1)	6.25	J-H	-31 / 0
C-D	-519 / 0	-102.1	-102.1	0.15 (1)	6.25	B-L	0 / 665
D-E	-519 / 0	-102.1	-102.1	0.15 (1)	6.25	J-F	0 / 665
E-F	-839 / 0	-102.1	-102.1	0.11 (1)	6.25	K-D	0 / 325
F-G	0 / 42	-102.1	-102.1	0.14 (1)	10.00	C-K	-307 / 0
N-B	-762 / 0	0.0	0.0	0.08 (1)	7.81	K-E	-307 / 0
H-F	-762 / 0	0.0	0.0	0.08 (1)	7.81		
N-M	0 / 25	-28.0	-28.0	0.03 (3)	10.00		
M-L	0 / 41	0.0	0.0	0.04 (1)	10.00		
L-C	0 / 99	0.0	0.0	0.05 (1)	10.00		
L-K	0 / 687	-28.0	-28.0	0.17 (2)	10.00		
K-J	0 / 687	-28.0	-28.0	0.17 (2)	10.00		
F-J	0 / 41	0.0	0.0	0.04 (1)	10.00		
J-E	0 / 99	0.0	0.0	0.05 (1)	10.00		
I-H	0 / 25	-28.0	-28.0	0.03 (3)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 29.1 PSF
DL	= 6.0 PSF
BOT CH. LL	= 10.5 PSF
DL	= 7.0 PSF
TOTAL LOAD	= 52.6 PSF

SPACING = 24.0 IN. OC

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

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.1 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.34")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.34")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.15/1.00 (D-E-I), BC=0.17/1.00 (J-K-2),
WB=0.15/1.00 (F-J-1), SSI=0.12/1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 0.50

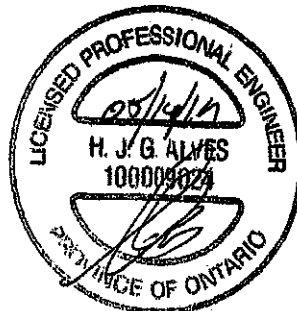
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PL) (PL)
MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.58 (D) (INPUT = 0.90)
JSI METAL = 0.17 (B) (INPUT = 1.00)



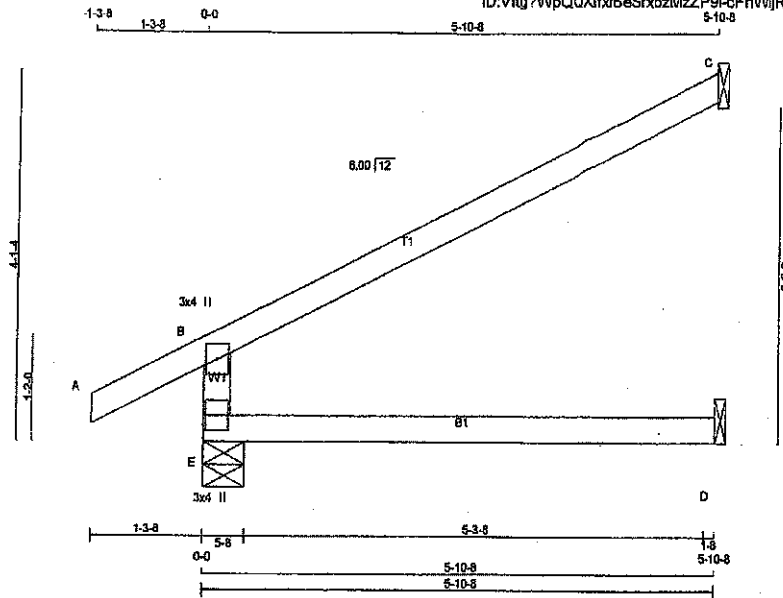
Structural component only
DWG# T-1911566

JOB NAME 200142-400307	TRUSS NAME J1	QUANTITY 9	PLY 1	JOB DESC. Brentwood 3A	TRUSS DESC.	DRWG NO.
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Famarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Wed May 8 14:08:48 2019 Page 1
ID:Vftg?WpQQXfM6eSfxbzMzZP9i-cFnWjRgNeaeucX8Xn20IEpRAR5oxhptph?bbNzIYn7

Scale = 1:23.8



TOTAL WEIGHT = 9 X 17 = 151 lb

LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
VERT	HORZ	DOWN	HORZ	UPLIFT
E	646	0	646	0
C	225	0	225	0
D	93	0	119	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	473	292 / 0	72 / 0	0 / 0	0 / 0	109 / 0	0 / 0
C	154	128 / 0	0 / 0	0 / 0	0 / 0	26 / 0	0 / 0
D	85	0 / 0	51 / 0	0 / 0	0 / 0	34 / 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: (4)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC2)
FR-TO		FROM TO		LENGTH FR-TO
E-B	-514 / 0	0.0	0.0	0.22 (3)
A-B	0 / 31	-102.1	-102.1	0.13 (1)
B-C	-34 / 0	-102.1	-102.1	0.60 (1)
E-D	0 / 0	-38.5	-38.5	0.22 (3)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 29.1 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.

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, CBC 2012
- CSA 089-09, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.1 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/380$ (0.20")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.04")
ALLOWABLE DEFL. (TL) = $L/380$ (0.20")
CALCULATED VERT. DEFL. (TL) = $L/942$ (0.07")

CSI: TC=0.80/1.00 (B-C:1), BC=0.22/1.00 (D-E:3), WB=0.00/1.00 (m/e:0), SS=0.28/1.00 (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.

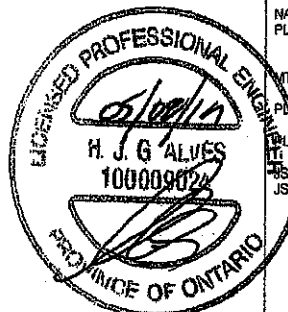
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

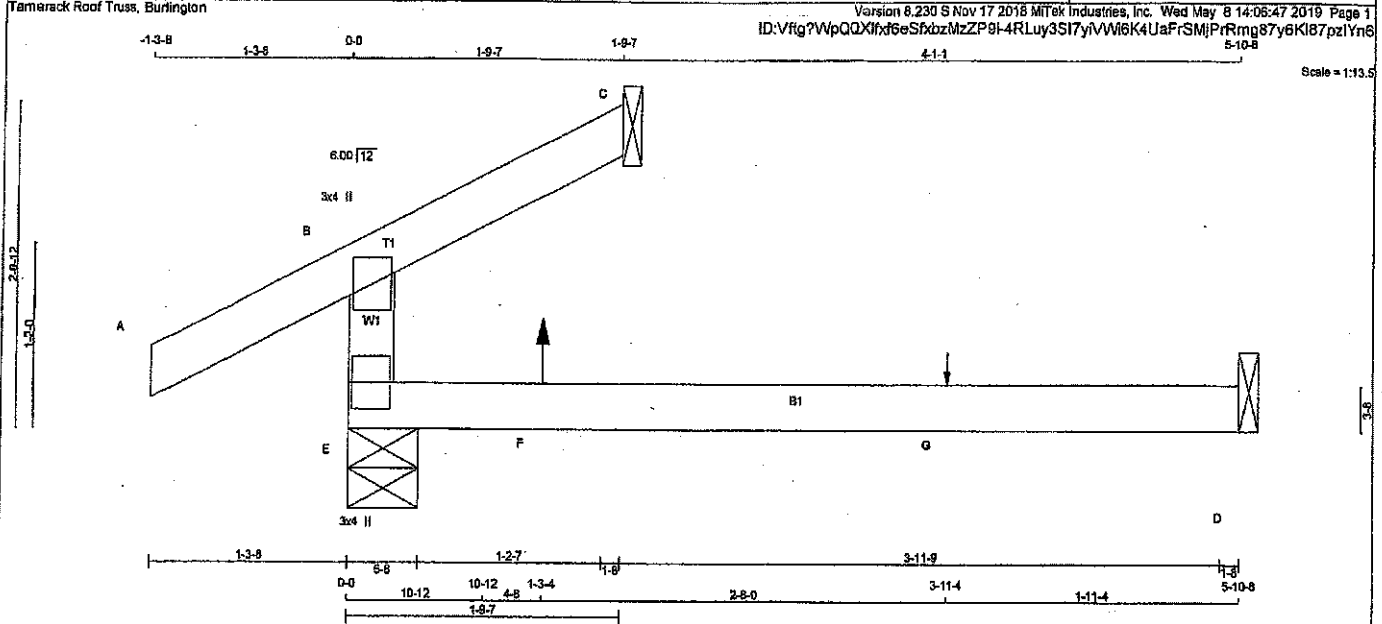
PLATE ROTATION TOL. = 5.0 Deg.

CSI GRIP= 0.21 (E) (INPUT = 0.90)
CSI METAL= 0.14 (B) (INPUT = 1.00)



DRWG NO. TAM 17910937
STRUCTURAL
CONSULTANT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
200142-400307	J2	2	1	Brentwood 3A	
Tamarack Roof Truss, Burlington					
Version 8.230 S Nov 17 2018 MTEK Industries, Inc. Wed May 8 14:06:47 2019 Page 1					
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5-10-8					



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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
E	351	0	351	0
C	95	0	97	0
D	94	0	123	0

SEE MITEK STANDARD DETAIL 837821H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED						
E	258	155/0	42/0	0/0	0/0	61/0	0/0
C	77	24/0	28/0	0/0	0/0	24/0	0/0
D	86	0/-2	53/0	0/0	0/0	35/0	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)

CHORDS	MAX. FACTORED	FACTORED	MAX. FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE	VERT. LOAD	LC1 MAX	MEMB.	FORCE
	(LBS)	(PLF)	CSI (LC)		(LBS)
FR-TO		FROM TO		FR-TO	
E-B	-228 / 28	0.0	0.0 0.19 (2)	7.81	
A-B	0 / 31	-102.1	-102.1 0.15 (1)	10.00	
B-C	0 / 27	-102.1	-102.1 0.16 (3)	10.00	
E-F	0 / 0	-38.5	-38.5 0.23 (3)	10.00	
F-G	0 / 0	-38.5	-38.5 0.23 (3)	10.00	
G-D	0 / 0	-38.5	-38.5 0.23 (3)	10.00	

FACTORED CONCENTRATED LOADS (LBS)	JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	1-3-4	8	1	13	FRONT	VERT	TOTAL	-	-	-
G	3-11-4	1	1	-	FRONT	VERT	TOTAL	-	-	-

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 28.1 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, NBC 2010, NBC 2015

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

DESIGN ASSUMPTIONS
- OVERHANG NOT TO BE ALTERED OR CUT OFF

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.1 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.20")
CALCULATED VERT. DEFL. (LL) = L/999 (0.05")
ALLOWABLE DEFL. (TL) = L/360 (0.20")
CALCULATED VERT. DEFL. (TL) = L/839 (0.05")

CSI: TC=0.19/1.00 (B-E-2), BC=0.23/1.00 (D-E-3), WB=0.00/1.00 (n/a:0), SSI=0.14/1.00 (D-E-3)

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

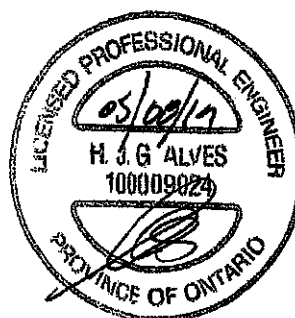
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1667 768 1987 1668

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

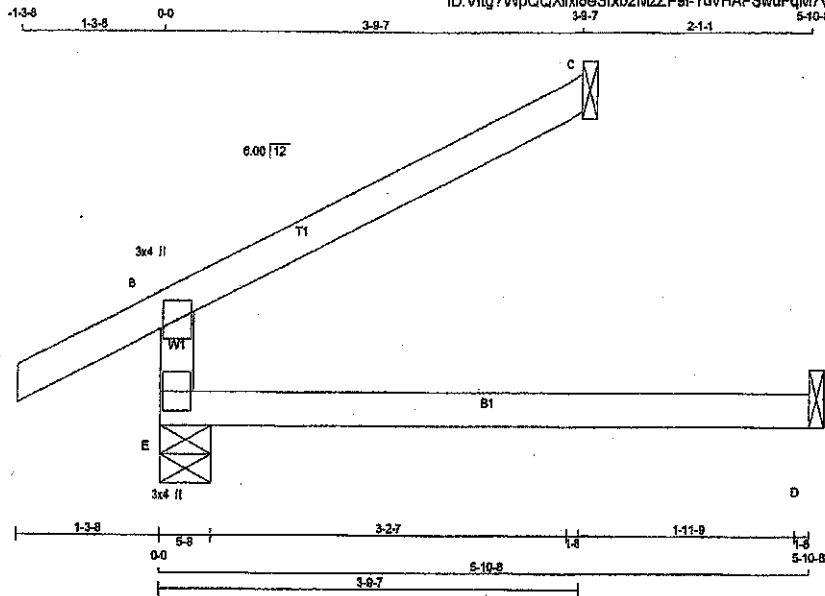
JSI GRIP= 0.10 (E) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)



ENGINEER TAM 01910938
STRUCTURAL
CONSULTANT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
200142-400307	J3	2	1	Brentwood 3A	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.230 5 Nov 17 2018 Mitek Industries, Inc. Wed May 8 14:06:48 2018 Page 1
ID: Vltg?WpQQXlf6eSfxbzMZZP9i-YdvHAPSrwFqM7yhWeC5UOMAEEnPpN6L_UlgFzYn5



Scale = 1:18.5

TOTAL WEIGHT = 2 X 14 = 28 lb

LUMBER

N.L.G.A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
VERT	HORZ	DOWN	HORZ	UPLIFT
E	513	0	513	0
C	145	0	145	0
D	93	0	119	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN COMPONENT REACTIONS
COMBINED	SNOW	LIVE
E	382	216 / 0
C	100	83 / 0
D	85	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)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1	MAX. MEMB. FORCE (LBS)	MAX. MEMB. FORCE (LBS)
FR-TO		FROM TO	LENGTH FR-TO	
E-B	-380 / 0	0.0	0.0	0.21 (3)
A-B	0 / 31	-102.1	-102.1	0.13 (1)
B-C	-22 / 0	-102.1	-102.1	0.25 (1)
E-D	0 / 0	-38.5	-38.5	0.21 (3)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 28.1 PSF
	DL = 8.0 PSF
BOT CH.	LL = 10.5 PSF
	DL = 7.0 PSF
TOTAL LOAD	= 52.5 PSF

SPACING = 24.0 IN. CG

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

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.1 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/360$ (0.20")
CALCULATED VERT. DEFL. (LL) = $L/989$ (0.04")
ALLOWABLE DEFL. (TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL. (TL) = $L/942$ (0.07")

CS: TC=0.25/1.00 (B-C:1), BC=0.21/1.00 (D-E:3), WB=0.00/1.00 (n/a:0), SS=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.

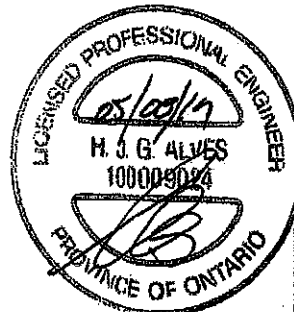
NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.18 (E) (INPUT = 0.90)
JSI METAL= 0.11 (B) (INPUT = 1.00)



DRWG NO. TAM 17910939
STRUCTURAL
CHECKED ONLY

JOB NAME 200142-400307	TRUSS NAME J4	QUANTITY 2	PLY 1	JOB DESC. Brentwood 3A	DRWG NO.
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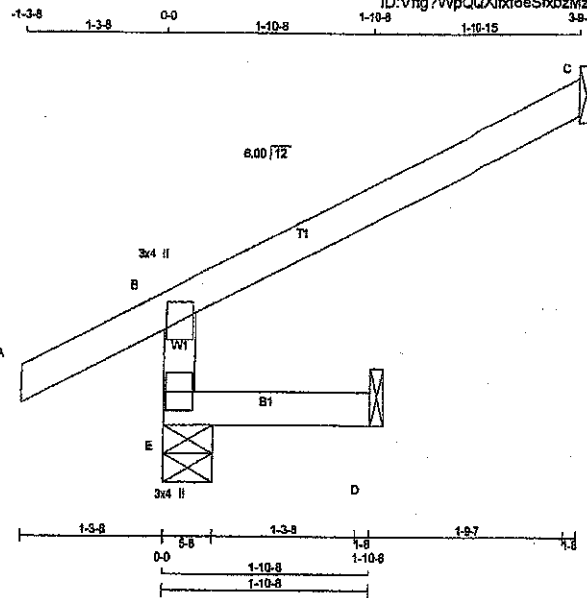
Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2016 MTEK Industries, Inc. Wed May 8 14:06:48 2019 Page 1
ID: Vfg?WpQQXImSeSbzZP9iYdvHAPSwFqM7VhWeC5UOnv_Eq?PaN6L_UlgFzIYNs
Scale = 1:13.5

LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER		DESIGN CRITERIA	
N.L.G.A. RULES	LUMBER	DESCR.	SPF	BEARINGS			
E - B 2x4 DRY No.2				FACTORED GROSS REACTION DOWN	MAXIMUM FACTORED GROSS REACTION UPLIFT	INPUT BRG IN-SX	REQ'D BRG IN-SX
A - C 2x4 DRY No.2				JT VERT HORZ	JT VERT HORZ		
E - D 2x4 DRY No.2				E 318 0 318 0	C 51 0 51 0	D 24 0 41 0	
DRY: SEASONED LUMBER.				SEE MITEK STANDARD DETAIL B37821H FOR CONNECTION TO JOINT(S) C, D			
PLATES (table is in inches)				PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS. FACTORED UPLIFT			
JT TYPE PLATES	W	LEN	Y X	PROVIDE ANCHORAGE AT BEARING JOINT D FOR 150 LBS. FACTORED UPLIFT			
B TMV+p MT20	3.0	4.0					
E BMV1+p MT20	3.0	4.0					
				UNFACTORED REACTIONS			
				1ST CASE MAX./MIN. COMPONENT REACTIONS			
JT COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
E 226	160/0	20/0	0/0	0/0	46/0	0/0	
C 38	27/-21	2/0	0/0	0/0	7/0	0/0	
D 24	0/-9	18/0	0/0	0/0	11/0	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)			
				CHORDS			
				MEMB. MAX. FACTORED FORCE (LBS)			
				VERT. LOAD LC1 MAX (PLF)			
				CS1 (LC) UNBRAC LENGTH FR-TO			
				FR-TO			
				E-B -270/0 0.0 0.0 0.04 (5) 7.81			
				A-B 0/31 -102.1 -102.1 0.13 (1) 10.00			
				B-C -18/0 -102.1 -102.1 0.10 (1) 8.25			
				E-D 0/0 -38.5 -38.5 0.04 (5) 10.00			
				WEB'S			
				MEMB. MAX. FACTORED FORCE (LBS)			
				CS1 (LC)			
				WB=0.00/1.00 (n/a.0), SS1=0.10/1.00 (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)			
				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=0.11 (E) (INPUT = 0.90)			
				JSI METAL=0.07 (B) (INPUT = 1.00)			

DWG NO. TAM 12510940
 STRUCTURAL
 OFFICE USE ONLY

JOB NAME 200142-400307 Tamarack Roof Truss, Burlington	TRUSS NAME J5	QUANTITY 2	PLY 1	JOB DESC. Brentwood 3A	TRUSS DESC.	DRWG NO.
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TOTAL WEIGHT = 2 X 10 = 19 lb

LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
E	420	0	420	0	5-8	5-8
C	145	0	145	0	1-8	1-8
D	32	0	41	0	1-8	1-8

SEE MITEK STANDARD DETAIL 837821H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

1ST LCASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	297	216 / 0	22 / 0	0 / 0	0 / 0	59 / 0	0 / 0
C	100	83 / 0	0 / 0	0 / 0	0 / 0	17 / 0	0 / 0
D	29	0 / 0	18 / 0	0 / 0	0 / 0	12 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		LENGTH FR-TO
E-B	-380 / 0	0.0	0.0	0.01 (3)
A-B	0 / 31	-102.1	-102.1	0.13 (1)
B-C	-22 / 0	-102.1	-102.1	0.25 (1)
E-D	0 / 0	-38.5	-38.5	0.03 (3)

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.1 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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, OBC 2012
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.1 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=0.25/1.00 (B-C:1), BC=0.03/1.00 (D-E:3),
WB=0.00/1.00 (n/a:0), 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.

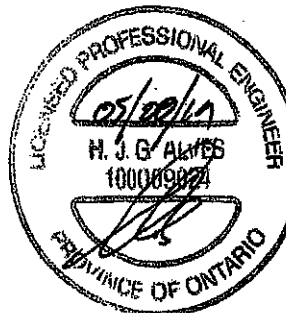
NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.16 (E) (INPUT = 0.80)
JSI METAL= 0.11 (B) (INPUT = 1.00)



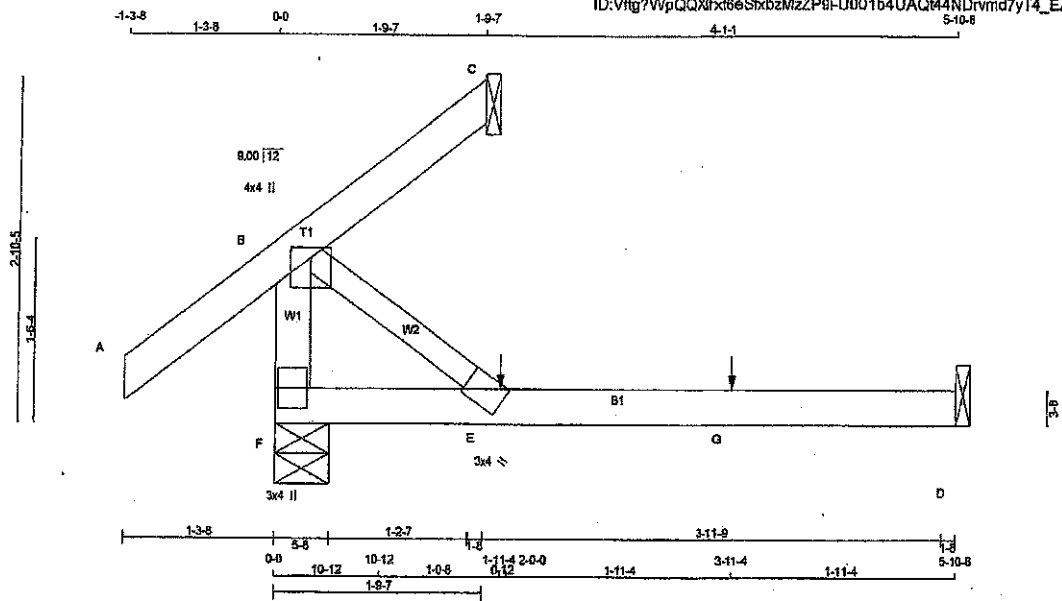
DRWG NO. TAM 17910941
STRUCTURAL
CONSENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	Brentwood 3A	DRWG NO.
200142-400307	J7	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Wed May 8 14:08:50 2019 Page 1
ID: Vfig7WpQQXfkt6eShkbzMzZP9t-U001b4UACM4NDrmvd7yT4_EA2R9tU0olzpK8zYn3

Scale = 1:17.7



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	4.0	1.00	2.00
E BMV+w	MT20	3.0	4.0	2.00	1.25
F BMV1+p	MT20	3.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
F	400	0	400	0	5-8	5-8
C	37	0	37	0	1-8	1-8
D	113	0	144	0	1-8	1-8

SEE MITK STANDARD DETAIL B37B21H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE	MAX MIN COMPONENT REACTIONS	PERM LIVE	WIND	DEAD	SOIL
F	298	163 / 0	62 / 0	0 / 0	75 / 0	0 / 0
C	25	21 / 0	0 / 0	0 / 0	4 / 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, C

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LO1 CS1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FORCE (LBS)	FACTORED LO1 CS1 (LC)	MAX. UNBRAC LENGTH	
FR-TO		FROM TO			FR-TO				
F-B	-286 / 0	0.0 0.0	0.03 (1)	7.81	B-E	0 / 0	0.00 (1)		
A-B	0 / 42	-102.1 -102.1	0.15 (1)	10.00					
B-C	-33 / 0	-102.1 -102.1	0.15 (1)	6.25					
F-E	0 / 0	-38.5 -38.5	0.27 (2)	10.00					
E-G	0 / 0	-38.5 -38.5	0.32 (2)	10.00					
G-D	0 / 0	-38.5 -38.5	0.32 (2)	10.00					

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	1-11-4	1	1	—	FRONT	VERT	TOTAL	—	—
G	3-11-4	1	1	—	FRONT	VERT	TOTAL	—	—

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 28.1 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, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2010, CBC 2012
- CSA 084-09, CSA 086-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.1 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.20")
CALCULATED VERT. DEFL. (LL) = L/826 (0.08")
ALLOWABLE DEFL. (TL) = L/360 (0.20")
CALCULATED VERT. DEFL. (TL) = L/555 (0.13")

CS1: TC=0.15/1.00 (A-B-1), BC=0.32/1.00 (D-E-2), WB=0.00/1.00 (B-E-1), SS=0.12/1.00 (E-F-2)

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.

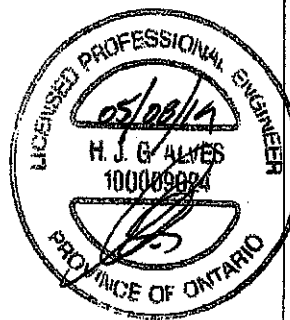
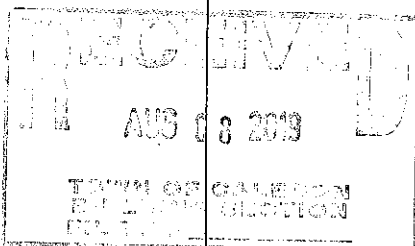
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

ISI GRIP=0.23 (B) (INPUT = 0.90)
ISI METAL=0.08 (B) (INPUT = 1.00)



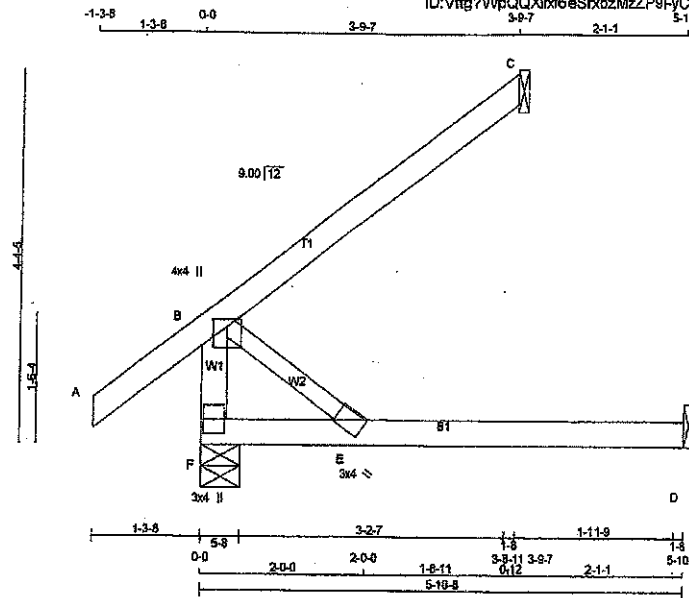
ENGR. TAM T7910942
STRUCTURAL
CUT OFF ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
200142-400307	J8	1	1	Brentwood 3A	

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2016 Mitek Industries, Inc. Wed May 8 14:05:51 2019 Page 1
ID: Vftg7WpQQXIM6eSfxbzMzZP9I-yCaPoQVoBACx_NQ5JKeB7(WOPSnix7Y1y)MGazYn2

Scale = 1/24.9



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 (tablets in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00 2.00
F	BMVW+p	MT20	3.0	4.0	
F	BMVW+p	MT20	3.0	4.0	

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	VERT	HORZ	DOWN	HORZ
F	447	0	447	0
C	193	0	193	0
D	113	0	144	0

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	332	190/0	62/0	0/0	0/0	80/0	0/0
C	133	110/0	0/0	0/0	0/0	23/0	0/0
D	103	0/0	62/0	0/0	0/0	41/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX FACTORED	FACTORED	WEBS	MAX FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
F-B	-334/0	0.0 0.0 0.03 (1)	B-E	0/0 0.00 (1)
A-B	0/42	-102.1 -102.1 0.14 (1)		
B-C	0/0	-102.1 -102.1 0.25 (1)		
F-E	0/0	-38.5 -38.5 0.25 (3)		
E-D	0/0	-38.5 -38.5 0.30 (3)		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.1 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, 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 28.1 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")

CSI: TC=0.25/1.00 (B-C:1), BC=0.30/1.00 (D-E:3),
WB=0.00/1.00 (B-E:1), SS=0.12/1.00 (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

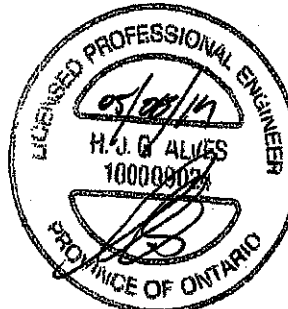
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1856

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)



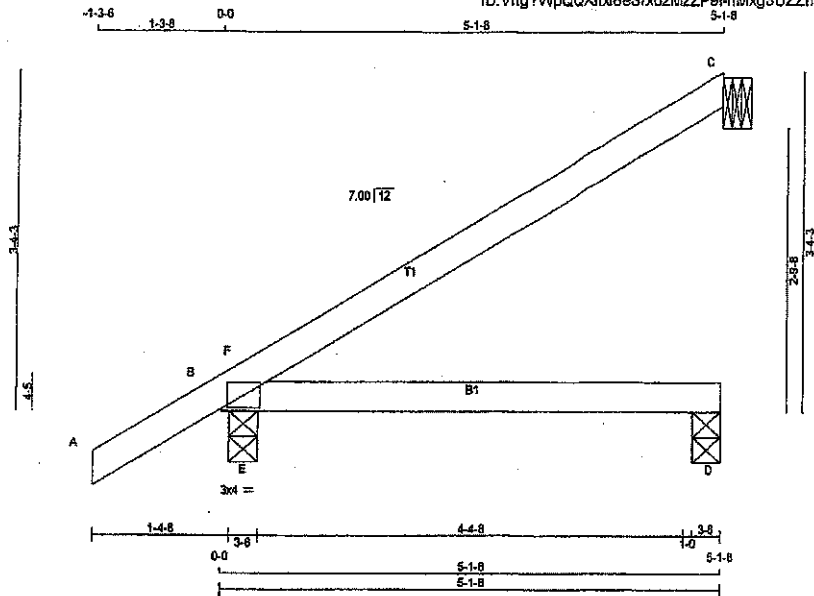
DRW: TAM 7/9/10943
STRUCTURAL
CHECK ONLY

JOB NAME 200142-400307	TRUSS NAME J21	QUANTITY 3	PLY 1	JOB DESC. Brentwood 3A	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.200 S Nov 17 2018 Mitek Industries, Inc. Wed May 8 14:08:57 2019 Page 1
ID: Vfig?WpQQXifd6eSfbzZP9l-nMxg3UZZn0z4itFgblbFYmN2tqO0fcQPuAgTEzYmy

Scale = 1:21.0



TOTAL WEIGHT = 3 X 15 = 44 lb

LUMBER

N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
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	TMB14	MT20	3.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
C	235	0	235	0	4-8	4-8
D	125	0	138	0	3-8	3-8
B	500	0	500	0	3-8	3-8

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
C	164	126 / 0	7 / 0	0 / 0	0 / 0	31 / 0	0 / 0
D	105	23 / 0	47 / 0	0 / 0	0 / 0	36 / 0	0 / 0
B	365	228 / 0	54 / 0	0 / 0	0 / 0	83 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 MAX (PLF)	MAX. UNBRACED LENGTH FR-TO	MAX. FACTORED FORCE (LBS)
A-B	0/34	-102.1 -102.1	0.13 (1)	10.00
B-F	-105/72	-102.1 -102.1	0.08 (3)	6.25
F-C	-5/7	-102.1 -102.1	0.37 (1)	10.00
B-E	0/0	-38.5 -38.5	0.22 (1)	10.00
E-D	0/0	-38.5 -38.5	0.28 (1)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 28.1 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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2010, NBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 28.1 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(LL) = $L/869$ (0.06")
ALLOWABLE DEFL.(TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(TL) = $L/590$ (0.10")

CSI: TC=0.37/1.00 (C-F:1), BC=0.28/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SSI=0.36/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

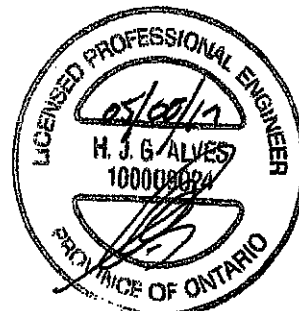
NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PL)
MT20	618	354
	1687	788
	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

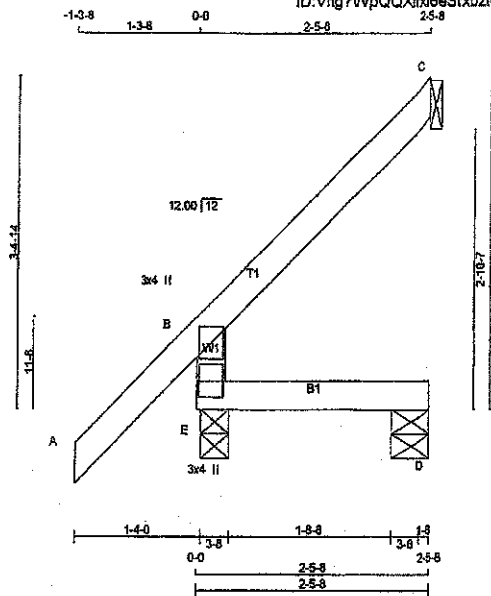
JSI GRIP= 0.37 (B) (INPUT = 0.80)
JSI METAL= 0.09 (B) (INPUT = 1.00)



DESIGNED BY 81910951

STRUCTURAL
C. J. BROWN

JOB NAME 200142-400307	TRUSS NAME J23	QUANTITY 9	PLY 1	JOB DESC. Brentwood 3A	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



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 in inches)

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
E	353	0	353	0	3-8	3-8
C	94	0	94	0	1-8	1-8
D	40	0	52	0	5-0	5-0

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

UNFACTORED REACTIONS							
JT	1ST LCASE		MAX/MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	255	170/0	30/0	0/0	0/0	55/0	0/0
C	65	54/0	0/0	0/0	0/0	11/0	0/0
D	37	0/0	22/0	0/0	0/0	15/0	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)

MEMB.	CHORDS			WEBS		
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)
FR-TO		FROM TO		FR-TO		
E-B	-289/0	0.0	0.03 (3)	7.81		
A-B	0/50	-102.1	-102.1	0.14 (1)	10.00	
B-C	-22/0	-102.1	-102.1	0.10 (1)	8.25	
E-D	0/0	-38.5	-38.5	0.04 (3)	10.00	

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 9 X 10 = 88 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.1 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, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2010, CBC 2012
- CSA 088-09, CSA 086-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS
OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.1 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/250 (0.19")
CALCULATED VERT. DEFL. (LL) = 1/999 (0.00")
ALLOWABLE DEFL. (TL) = L/360 (0.19")
CALCULATED VERT. DEFL. (TL) = 1/999 (0.00")

CSK: TC=0.14/1.00 (A-B:1), BC=0.04/1.00 (D-E:3), WB=0.00/1.00 (n/a:0), SS=0.09/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP (DRY)	SHEAR (PL)	SECTION (PL)
MT20	816	354	1667

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.15 (B) (INPUT = 0.90)
JSI METAL= 0.10 (B) (INPUT = 1.00)



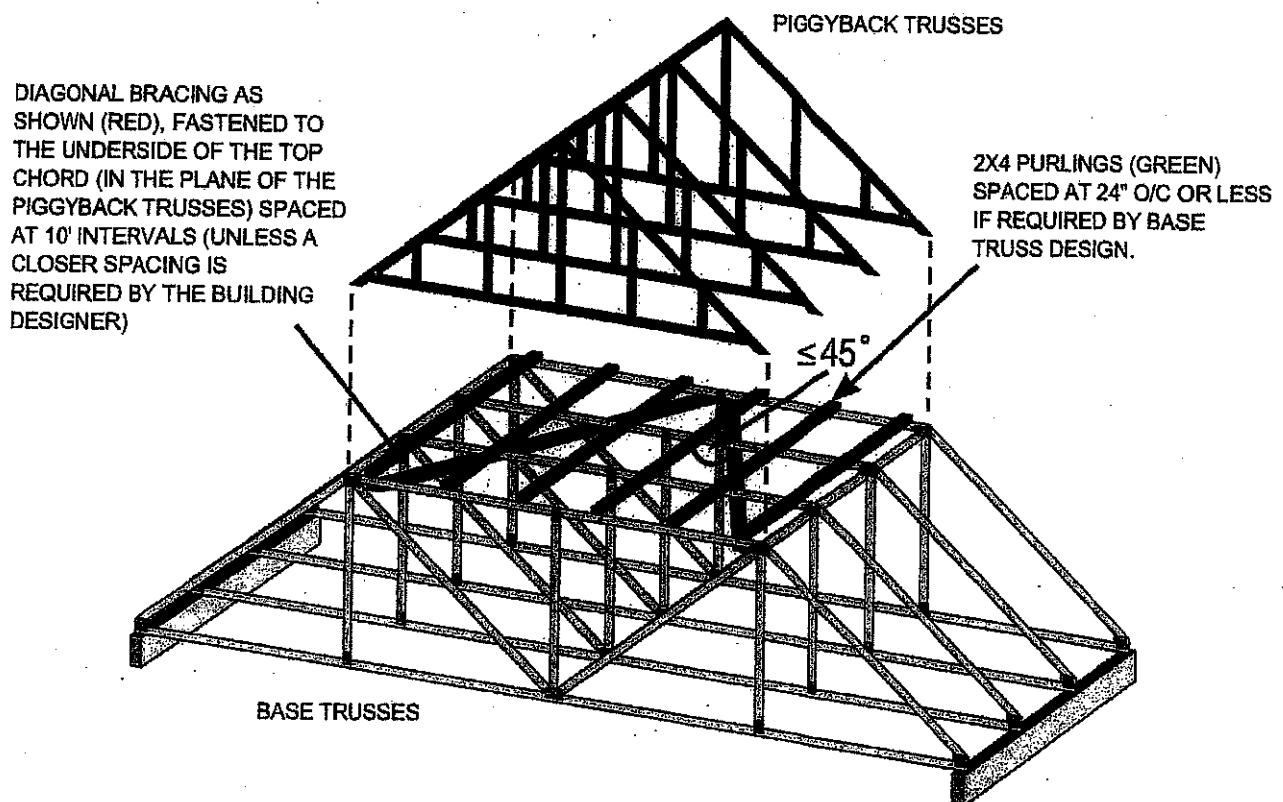
EXPIRATION DATE 09/07/53
RENEWAL
CONTACT: 1-800-387-2222

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:



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.

LUS – Double Shear Joist Hangers

SIMPSON
Strong-Tie

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

Material: 18 gauge

Finish: G90 galvanized

Design:

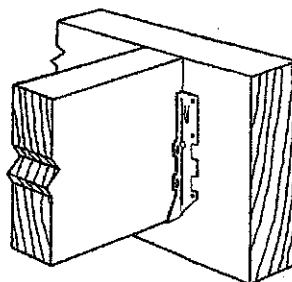
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

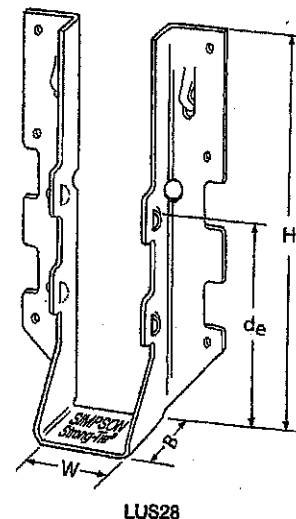
- Use all specified fasteners.
- Nails: 16d = 0.162" dia. x 3½" long common wire,
10d = 0.148" x 3" long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.

Options:

- These hangers cannot be modified

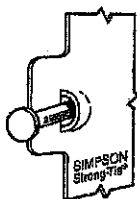


Typical LUS
Installation

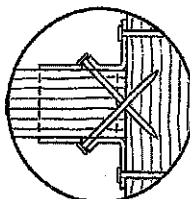


Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d ₁	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K _u =1.15)	Normal (K _n =1.00)	Uplift (K _u =1.15)	Normal (K _n =1.00)
LUS24	18	1½	3½	1½	1½	(4) 10d	(2) 10d	710	1630	645	1155
LUS24-2	18	3½	3½	2	1½	(4) 16d	(2) 16d	835	2020	590	1435
LUS26	18	1½	4½	1½	3½	(4) 10d	(4) 10d	1420	2170	1290	1630
LUS26-2	18	3½	4½	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
LUS26-3	18	4½	4½	2	3½	(4) 16d	(4) 16d	1720	2595	1545	2340
LUS28	18	1½	6½	1½	3½	(6) 10d	(6) 10d	1420	2520	1290	1790
LUS28-2	18	3½	7	2	4	(6) 16d	(4) 16d	1720	3325	1545	2575
LUS28-3	18	4½	6½	2	3½	(6) 16d	(4) 16d	1720	3325	1545	2375
LUS210	18	1½	7½	1½	3½	(8) 10d	(4) 10d	1420	2785	1290	2210
LUS210-2	18	3½	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
LUS210-3	18	4½	8½	2	5½	(8) 16d	(6) 16d	2580	3345	2320	2375

1. d₁ is the distance from the seat of the hanger to the highest joist nail.



Double Shear Nailing prevents tabs breaking off (available on some models).
U.S. Patent 5,803,580



Double Shear Nailing
Top View.



DESIGN

This technical bulletin is intended to provide information on the use of Simpson Strong-Tie LUS Double Shear Joist Hangers. It is not intended to be a substitute for the manufacturer's instructions or the applicable building code. The user is responsible for ensuring that the hanger is used in accordance with the applicable building code and the manufacturer's instructions.

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SP-2017-017-ENG-0119

(800) 999-5099
strongtie.com

HUS/LJS -- Double Shear Joist Hangers

SIMPSON
Strong-Tie

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

Material: See table

Finish: G90 galvanized

Design:

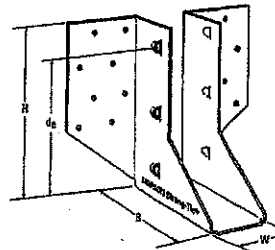
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

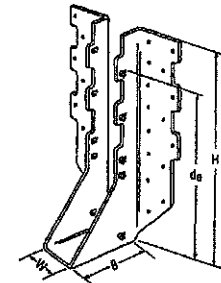
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

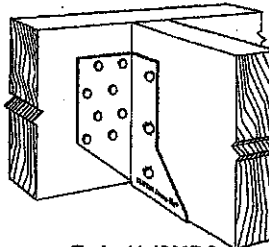
- See current catalogue for options



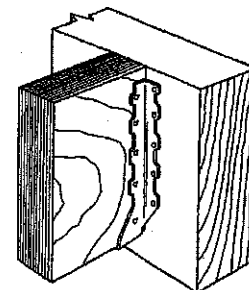
LJS26DS



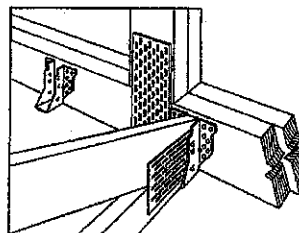
HUS210
(HUS26, HUS28, similar)



Typical LJS26DS
Installation



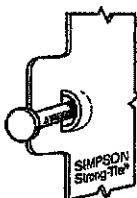
Typical HUS
Installation



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

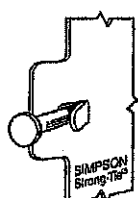
Model No.	Ga.	Dimensions (in.)					Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist		D.Fir-L		S-P-F	
									Uplift (K _u =1.15)	Normal (K _u =1.00)	Uplift (K _u =1.15)	Normal (K _u =1.00)
LJS26DS	18	1 1/16	5	3 1/2	4 3/4	(16) 16d	(8) 16d		2055	4265	1460	4115
HUS26	18	1 1/8	5 1/2	3	3 15/16	(14) 16d	(8) 16d		2705	4940	2065	3875
HUS28	16	1 1/8	7 1/2	3	6 1/2	(22) 16d	(8) 16d		3605	5365	2675	4345
HUS210	16	1 1/8	9 1/2	3	7 1/2	(30) 16d	(10) 16d		4505	5795	4010	4740
HUS1.81/10	16	1 1/16	9	3	8	(30) 16d	(10) 16d		4505	6450	4010	5200

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

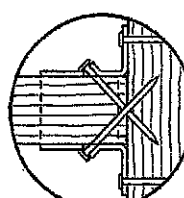


Dome Double
Shear Nailing
prevents tabs
breaking off
(available on
some models).

U.S. Patent
5,603,580



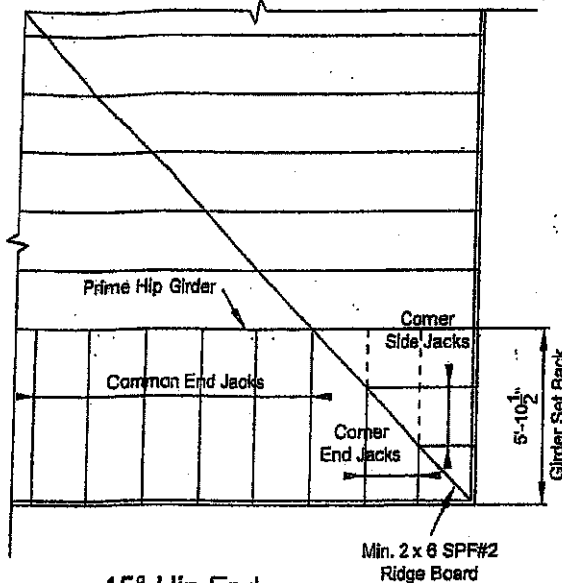
Double
Shear
Nailing
Side View.
Do not
bend tab
back.



Double
Shear
Nailing
Top View.



(800) 999-5099
strongtie.com



45° Hip End

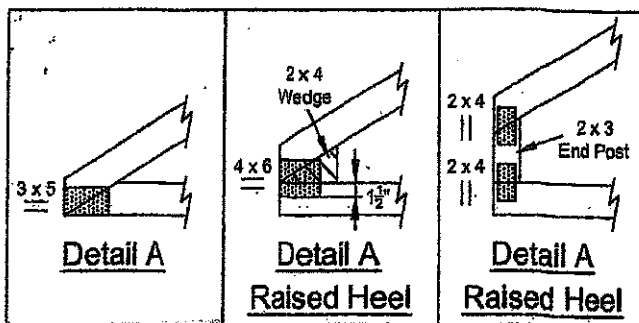
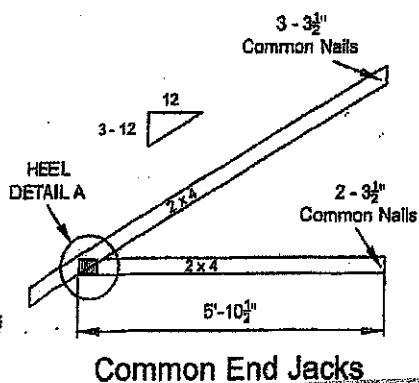
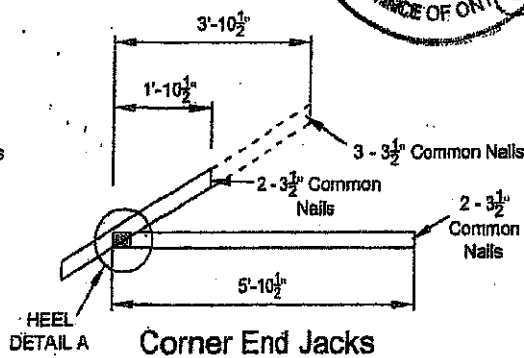
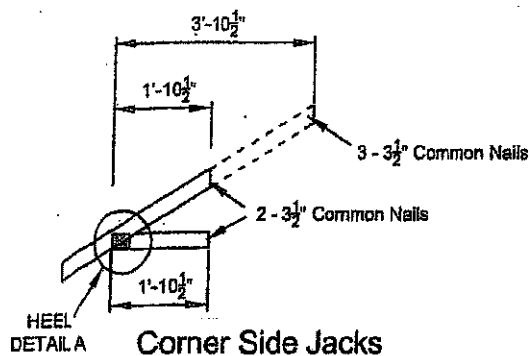
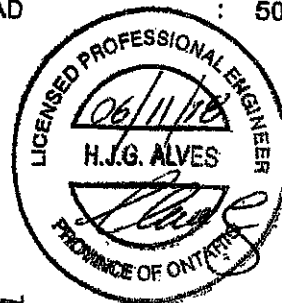
LUMBER SPECIFICATION

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.

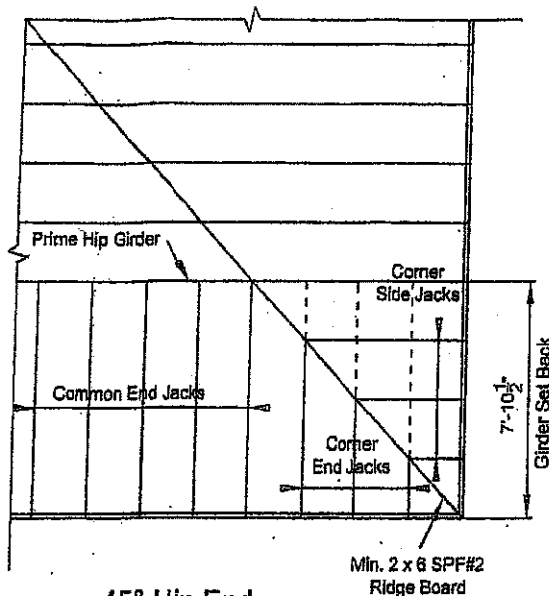
TOTAL LOAD : 50.5 P.S.F.



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

T-1800216

TOWN OF CALEDON
 BUILDING DEPARTMENT
 RECEIVED



45° Hip End

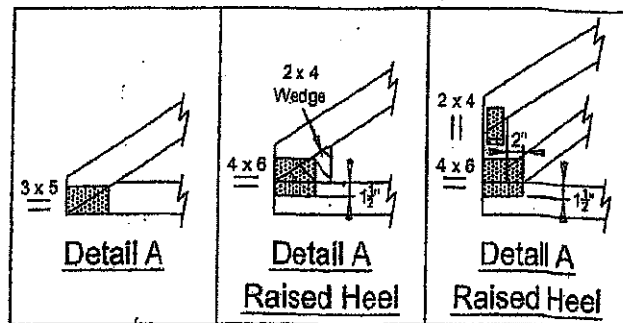
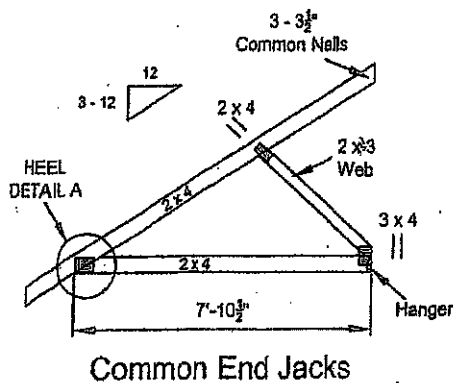
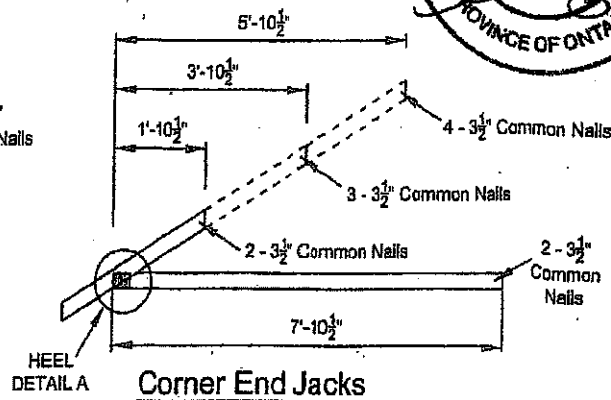
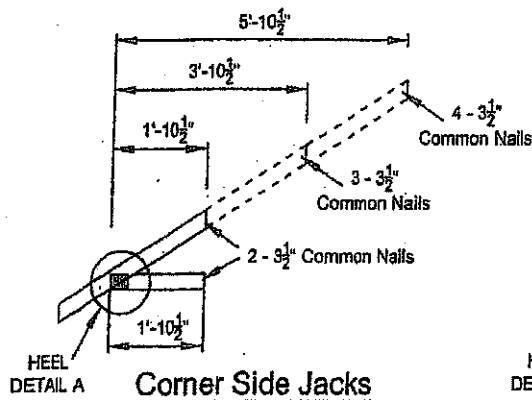
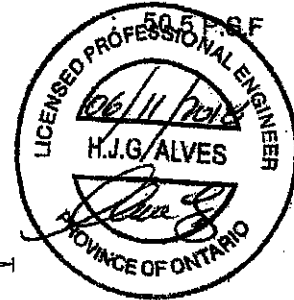
LUMBER SPECIFICATION

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

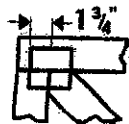


NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (L.S.D. DESIGN)

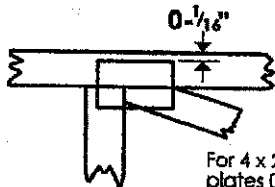
T-1800217

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

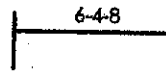


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

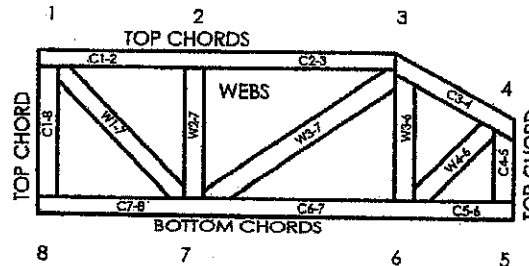
Industry Standards:

- 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



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
POWER TO PERFORM.™

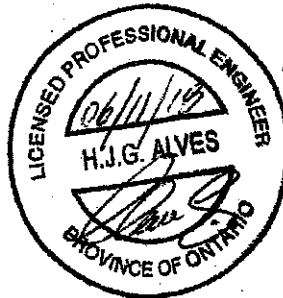
MiTek Engineering Reference Sheet: MII-7473C rev. 10-08



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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



Alves Engineering Services Inc.

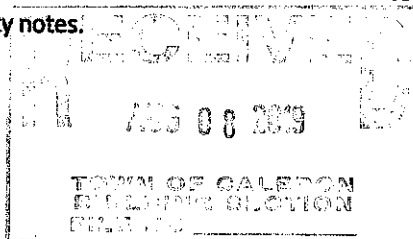
5208 Easton road
Burlington, Ontario L7L 6N6
(289) 259 5455

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



T-1300213

Feb 09, 2018