



Job Track:	40297
Layout ID:	252532
Plan Log:	79711

Builder / Location:	GOLD PARK / KLEINBURG	
Project:	HUNTINGTON & NASHVILLE	
Date:	4/17/2015	Designer:

THESE DRAWINGS CONSTITUTE THE PROPERTY OF ALPA 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 ALPA ROOF TRUSSES INC AND WILL BE RETRACTED BY ALPA ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.

Model / Elevation:
25-5 / A

STD OR OPT 2ND FLR

Mitek Ver. 7.5.0

CONVENTIONAL
FRAMING BY
OTHERS

ALL CONV. FRAMING TO CONFORM WITH PART 9 OF O.B.C. 2012. ROOF RATTENS THAT CROSS MEET OVER TRUSSES TO BE 2x4 SIPS @ 24" O.C. WITH A VERT POST TO THE TRUSS UNDERNEATH AT EACH CROSS PT. VERT. POST LONGER THAN 5' TO HAVE LATERAL BRACING SO THAT THE DIST. BETWEEN END PT. & BETWEEN ROWS OF BRACING DOES NOT EXCEED 5'

62-10-00

50301

H01

H02

H103(16)

H03A

H06A

4405(5)

-VAULT CLG
@ 12/12

(i) $\frac{1}{2}$

(1 Ply)

19-02-00

J01(5)

C95728

~~A-N273440~~
~~A-N273441~~

A-15073442

A-11073573

A-14073519

A-10073516

~~A-10735~~

44-10735

FLAT ROOF

T.O.P @ 9-01-00 —
1/4" HEEL
(BELL CURVE BY OTHERS)

5/12

P01(4)

H08(3)

H086

8-06-00

H07G

12" FIN. OH.
RSD. HEEL - 0" DROP
(2" x 6" FASCIA) - FM
ASPHALT SHINGLES
2" X 6" BRG/BRICK

54-11-00

13-00-00

7-11-00

HANGERS
// LUS24

ALL CONN. FRAMING TO CONFORM WITH PART 9 OF O.B.C. JOINTS MEET OVER TRUSSES TO BE 24" SP. 22" O.C. WITH A VENTILATOR TO THE TRUSS JOINTS. ALL TRUSSES TO BE 17' LONGER THAN THE VERT. POST LONGER THAN 6' TO HAVE INTERNAL BRACING SO AS TO HAVE AN INTERMEDIATE JOINT BETWEEN JOINS OF BRACING DOES NOT EXCEED 6'

62-10-00

ALPHA-ROOF

H01T
H02T

H03(5)

H03(11)

(1 Ply) H03A

(1 Ply) H06A

H05(5)

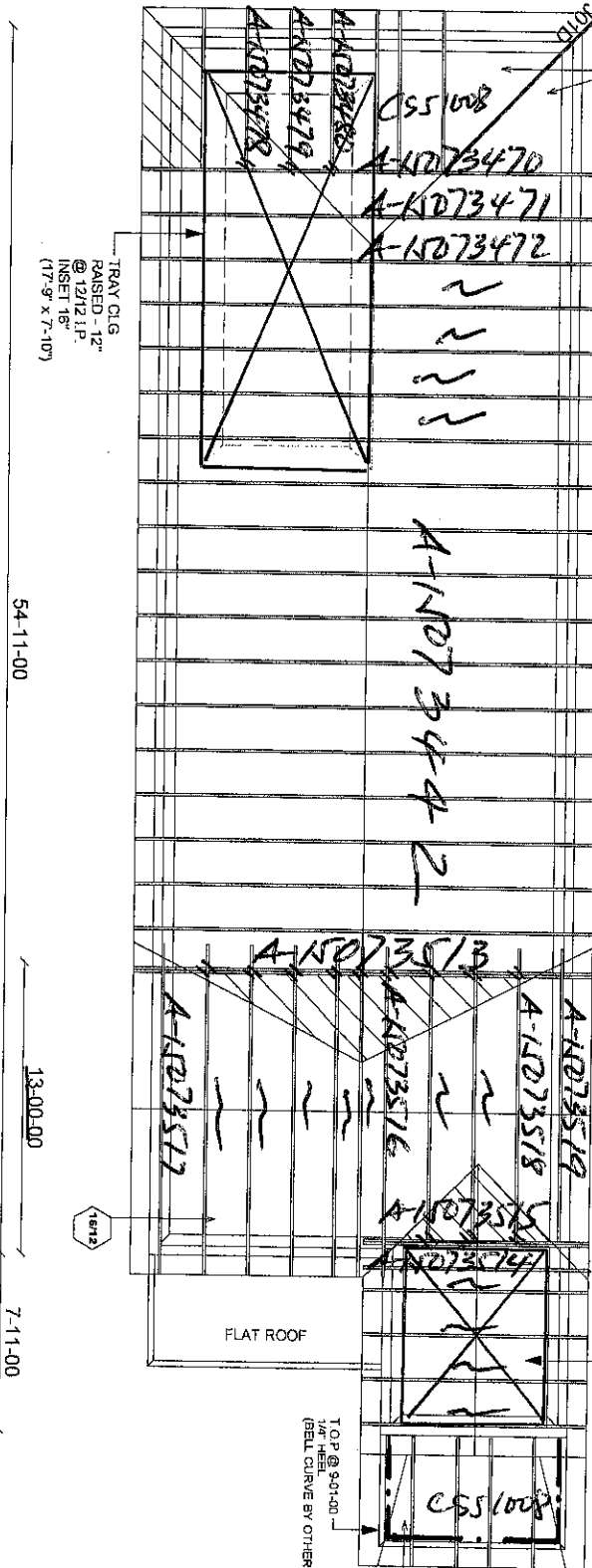
VAULT CLG
@ 12/12

19-02-00

J01(3)

J01C
J01B
J01A
J01

12" FIN. OH.
RSD. HEEL - 0" DROP
(2" X 6" FASCIA) - FM
ASPHALT SHINGLES
2" X 6" BRG/BRICK



54-11-00

13-00-00

7-11-00

HANGERS
// LUS24

H07(6)
H08(3)
H08G
10-08-00
8-06-00

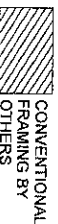
PL 80980C



Job Track: 40297
Layout ID: 252533
Plan Log: 79711

Builder / Location: GOLD PARK / KLEINBURG
Project: HUNTINGTON & NASHVILLE
Date: 4/17/2015
Designer:

Model / Elevation: 25-5 / A OPT TRAY



Mike Ver 7.5.0

THESE DRAWINGS CONSTITUTE THE PROPERTY OF ALPHA 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 ALPHA ROOF TRUSSES INC AND WILL BE RETRACTED BY ALPHA ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.

ALL CONN. FRAMING TO CONFORM WITH PART 9 OF O.A.C. 2012. ALL TRUSSES SHALL MEET OVER TRUSSES TO BE 24" SP' @ 24" O.C. WITH A VERT. POST TO THE TRUSS VERT. POST LONGER THAN 8" TO HAVE LATERAL BRACING SO 4" BETWEEN ROOF OF BRACING DOES NOT EXCEED 5'

62-10-00

ALPHA-BYTE

H01T
H02T
H03T(3)

H03(13)

H03A

H06A

H05(5)

VAULT CLG @ 12/12

(1 Ply)

(1 Ply)

19-02-00

J01(3)

J01C

J01B

J01A

J01

12" FIN. OH.
RSD. HEEL - 0" DROP
(2" x 6" FASCIA) - FM
ASPHALT SHINGLES
2" x 6" BRG/BRICK

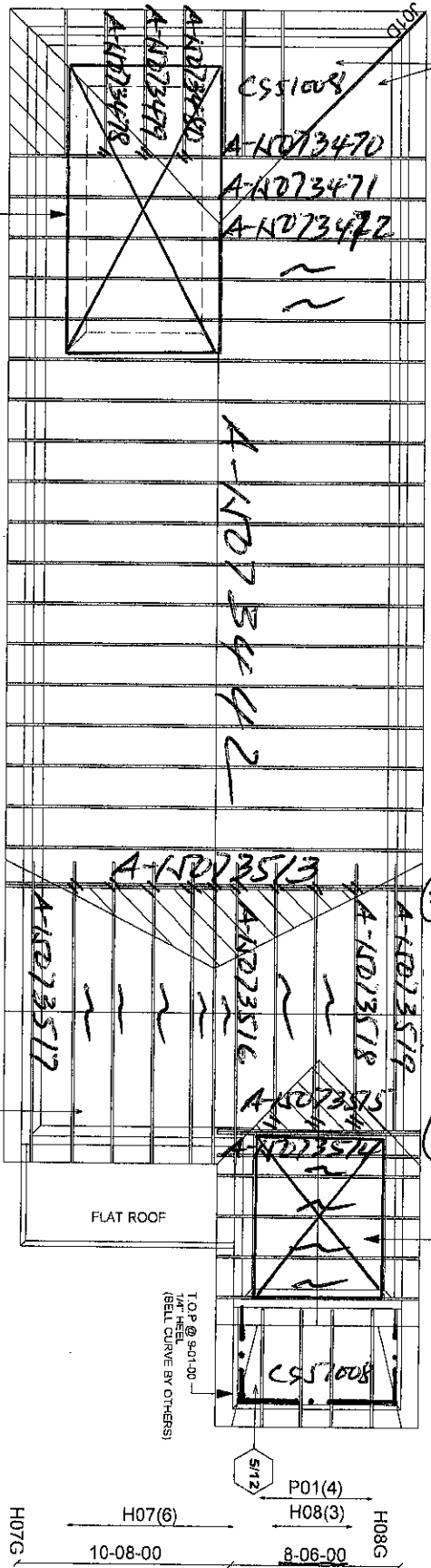
TRAY CLG
RAISED - 12"
@ 12/12 I.P.
INSET 16"
(14'-1" x 7'-10")

54-11-00

13-00-00

7-11-00

HANGERS
// LUS24



PL 80980



CONVENTIONAL
FRAMING BY
OTHERS

Milltek Ver 7.5.0

Job Track: 40297

Layout ID: 252534

Plan Log: 79711

Builder / Location:
GOLD PARK / KLEINBURG

Project:
HUNTINGTON & NASHVILLE

Date: 4/17/2015

Designer:

Model / Elevation:
25-5

/ A OPT 2ND W/TRAY

THESE DRAWINGS CONSTITUTE THE PROPERTY OF ALPHA 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 ALPHA ROOF TRUSSES INC AND WILL BE RETRACTED BY ALPHA ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.

ALL CONN. FRAMING TO CONFORM WITH PART 8 OF O.B.C. 2012. ROOF BRACES THAT CROSS MEET WITH A VERT. POST TO THE TRUSS UNDERGUT AT EACH CROSS PT. TO HAVE LATERAL BRACING SO THAT THE DIST. BETWEEN END PT. BETWEEN ROOFS OF BRACING DOES NOT EXCEED 8'

62-10-00

ALPA-BARRIE

H01
H02

H03(18)

H04(3)

H06
H05(5)

VALU' CLG
@ 12/12

19-02-00

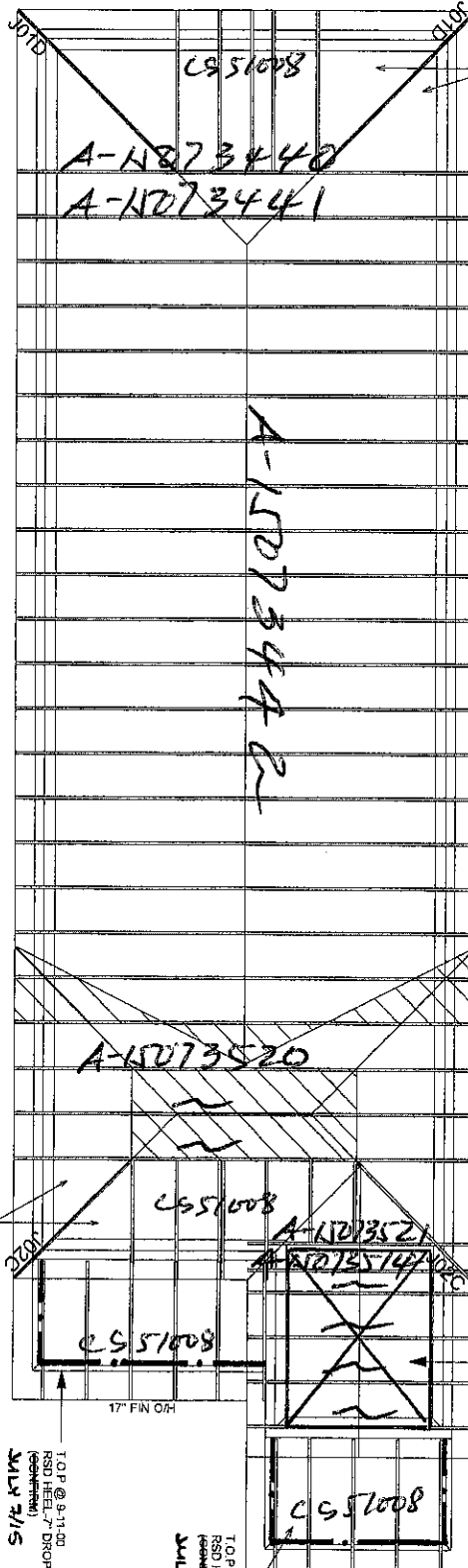
J01(5)

12" FIN. OH.
RSD. HEEL - 0" DROP
(2" x 6" FASCHA) - FM
ASPHALT SHINGLES
2" X 6" BRICK

54-11-00

13-00-00

7-11-00



T.O.P. @ 12-30-00
RSD. HEEL - 0" DROP
(2" x 6" FASCHA) - FM
ASPHALT SHINGLES
2" X 6" BRICK

T.O.P. @ 12-30-00
RSD. HEEL - 0" DROP
(2" x 6" FASCHA) - FM
ASPHALT SHINGLES
2" X 6" BRICK

P02(6)
J02(5)

J02S
P01(5)

10-08-00

8-06-00

PL 80980



Job Track:	40297	Builder / Location:	GOLD PARK / KLEINBURG		Model / Elevation:	25-5	/ B	STD OR OPT 2ND FLR
Layout ID:	252535	Project:	HUNTINGTON & NASHVILLE					
Plan Log:	79711	Date:	4/17/2015	Designer:				

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Mittek Ver. 7.5.0

ALL CONN. FRAMING TO CONFORM WITH PART 8 OF O.B.C. 2012. MEET OVER TRUSSES TO BE 204 SPP #2 270.C. WITH A VENT POST TO THE TRUSS. VENT POST LONGER THAN 8' TO HAVE LATERAL BRACING SO AS TO HAVE 8' OF BRACING. 8' RELATIVE TO 8' OF BRACING DOES NOT EXCEED 6'

62-10-00

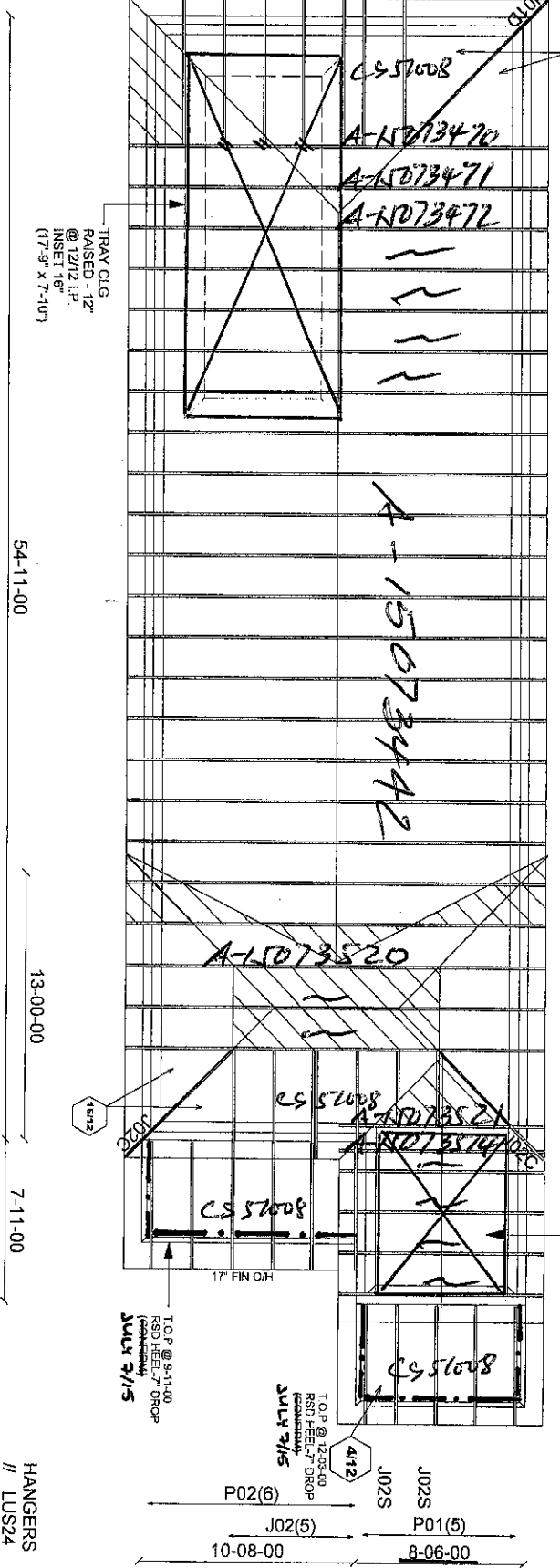
ALPHA BARRI

H01T H02T H03(5) H03(13) H04(3) H08 H05(5)

VAULT CLG @ 12/12

19-02-00
J01(3)
J01C
J01B
J01A
J01

12" FIN. OH.
RSD. HEEL - 0" DROP
(2" x 6" FASCIA) - FM
ASPHALT SHINGLES
2" x 6" BRICK



HANGERS
// LUS24

PL 80980



Job Track: 40297
Layout ID: 252536
Plan Log: 79711

Builder / Location: GOLD PARK / KLEINBURG
Project: HUNTINGTON & NASHVILLE
Date: 4/17/2015 Designer:

Model / Elevation: 25-5 / B OPT TRAY

CONVENTIONAL
FRAMING BY
OTHERS

Mark Ver 7.5.0

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PL 80980

Job Track	40297
Layout ID:	252537
Plan Log:	79711

Builder / Location:	GOLD PARK / KLEINBURG	
Project:	HUNTINGTON & NASHVILLE	
Date:	4/17/2015	Designer:

Model / Elevation:IT
25-5 / B OPT 2ND W/TRAY



CONVENTIONAL
FRAMING BY
OTHERS

Mitek Ver. 7.5.0

ALL CONJ. FRAMING TO CONFORM WITH PART 5 OF O.B.C. 2012
ROOF RAFTERS THAT CROSS MEET OVER TRUSSES TO BE 2X4 SIPS @ 24" O.C. WITH A VENT POST TO THE TRUSS UNDERNEATH AT EACH CROSS PT. VERT. POST LONGER THAN 5' TO HAVE LATERAL BRACING SO THAT THE DIST. BETWEEN END PT. & BETWEEN ROWS OF BRACING DOES NOT EXCEED 5'

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H01T
H02T

H03T(3)

H103(15)

H104(3)

H05(5)
H06

VAULT CLG
@ 12/12

19-02-00

J01(3)

J01C
J01E
J01A
J01

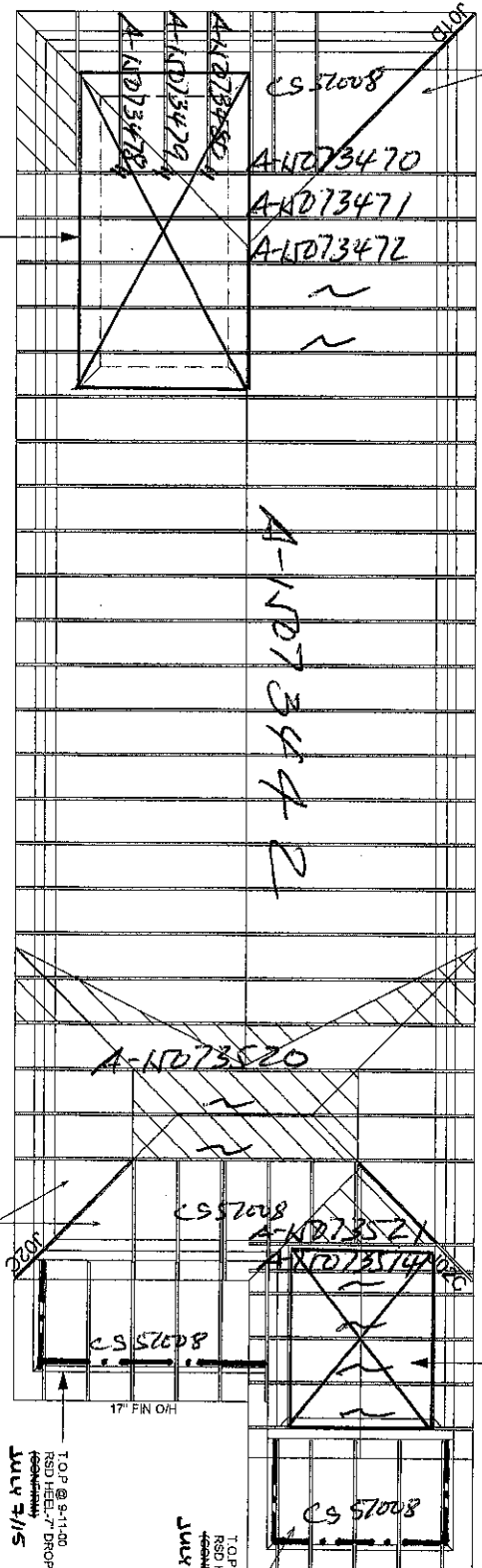
12" FIN. OH.
RSD. HEEL - 0" DROP
(2" x 6" FASCIA) - FM
ASPHALT SHINGLES
2" X 6" BRG/BRICK

54-11-00

13-00-00

7-11-00

HANGERS
// LUS24



100P @ 9-11-00
RSD HEEL-7" DROP
(CONFIRM)
JULY 7/15

T.O.P @ 12-03-00
RSD HEEL-7" DROP
(CONTINUED)
JULY 2015

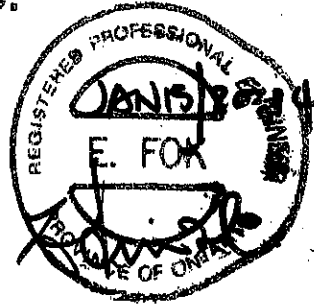
P02(6)
JC
10-08-00

P01<5
J02S

8-06-0

Stracon Engineering Inc.

69 Graydon Crescent
Richmond Hill, Ontario
L4B 3W7
(905) 832-2250 Fax (905) 832-0286



RESPONSIBILITIES

1. Stracon Engineering 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 with jurisdictions.
3. All dimensions are to be verified by owner contractor, architect or other authority before manufacture.
4. Stracon Engineering 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 Stracon Engineering Inc. drawings is specified for the truss as a component only and forms an integral part of the truss design.
5. It is the truss manufacture's responsibility to ensure that trusses are manufactured in conformance with Stracon Engineering Inc. specifications outlined below.

SPECIFICATIONS

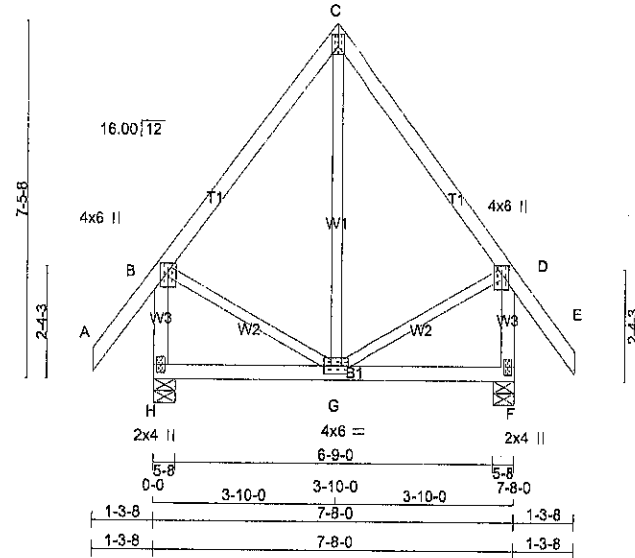
1. Trusses designed by Stracon Engineering Inc. conforms to the relevant section of the Ontario Building Code of Canada (Part 9 or Part 4) or to the Canadian code for farm buildings, whichever applies to the building type indicated on the drawings as well as to the procedures established by the truss plate institute of Canada. Unit stresses used are as per CSA-086-09.
2. Lumber is to be the sizes and grade specified.
3. Moisture content of lumber is not to exceed 19% in service unless otherwise specified.
4. Lumber not to be treated with chemicals unless otherwise specified.
5. Plates shall be applied to both faces of the truss at each joint and shall be positioned as specified.
6. The top chord is assumed to be continuously laterally braced by the roof sheathing or purlins at intervals not exceeding 12.5 times in thickness.
7. Where not rigid ceiling is attached directly to the bottom chord, laterally brace the chords at intervals not exceeding 3M (10') o.c.

January 15, 2014

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
252535	H06	1	1	TRUSS DESC.	

Alpa Roof Truss, Maple

Version 7.620 S Apr 15 2015 MITek Industries, Inc. Tue Jul 14 07:44:34 2015 Page 1
ID:hdKFA8XS_E1ZIH0GL9ahDNzQR2b-8WYSvRrR_yi45leiw7_WV2W_DnACJ3SrC0I71yyE?R
3x5 II
Scale: 1/4"=1'



TOTAL WEIGHT = 45 lb
(M)

LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	6.0	2.00	2.00
C	TTW+p	MT20	3.0	5.0	2.00	Edge
D	TMVW+p	MT20	4.0	6.0	2.00	2.00
F	BMV1+p	MT20	2.0	4.0		
G	BMVWW-1	MT20	4.0	6.0		
H	BMV1+p	MT20	2.0	4.0		

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

NOTES: (1)

1) Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design.

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	UPLIFT
H	533	0	533	0
F	591	0	591	0

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	373	266 / 0	0 / 0	0 / 0	0 / 0	107 / 0	0 / 0
F	414	294 / 0	0 / 0	0 / 0	0 / 0	120 / 0	0 / 0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 / 40	-70.5 -70.5	0.11 (1)	10.00	G-C	0 / 108	0.04 (4)
B-C	-236 / 0	-70.5 -70.5	0.20 (1)	6.25	B-G	0 / 159	0.04 (1)
C-D	-236 / 0	-70.5 -70.5	0.20 (1)	6.25	G-D	0 / 159	0.04 (1)
D-E	0 / 40	-70.5 -70.5	0.11 (1)	10.00			
H-B	-496 / 0	0.0 0.0	0.07 (1)	7.81			
F-D	-496 / 0	0.0 0.0	0.07 (1)	7.81			
H-G	0 / 0	-17.5 -59.9	0.13 (1)	10.00			
G-F	0 / 0	-61.9 -61.9	0.13 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 2-0-0
END DISTANCE = 4-0-4
END SPAN CARRIED = 4-0-4
END WALL WIDTH = 0-0
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 65 % OF GSL.

GIRDER TYPE: CStdGirder
START DISTANCE = 4-0-4
START SPAN CARRIED = 4-0-4
END DISTANCE = 7-8-0
END SPAN CARRIED = 4-0-4
END WALL WIDTH = 0-0
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 65 % OF GSL.

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

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

(65 % OF 23.0 P.S.F. G.S.L. PLUS
8.4 P.S.F. RAIN LOAD EQUALS
21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.26")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.26")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.20 (C-D:1), BC=0.13 (G-H:1),
WB=0.04 (B-G:1), SS=0.12 (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 = 0.50

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

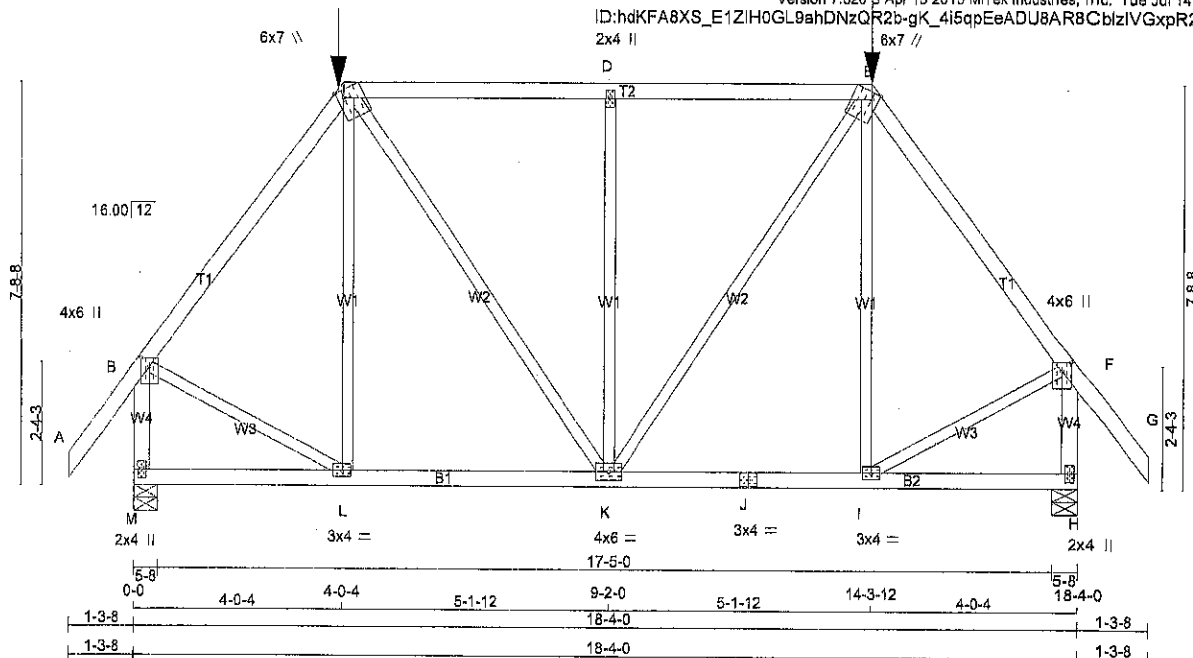
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2264 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 6.0 Deg.



A-15073521



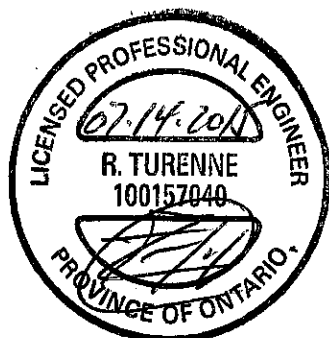
TOTAL WEIGHT = $3 \times 96 = 289 \text{ lb}$

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 119.0 lbs FACTORED DOWN AT 14-3-12, AND 119.0 lbs FACTORED DOWN AT 4-0-4 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

C H O R D S				W E B S				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM TO			FR-TO			
A-B	0 / 40	-70.5	-70.5	0.11 (1)	10.00	L-C	-128 / 66	0.14 (1)
B-C	-927 / 0	-70.5	-70.5	0.25 (1)	6.10	C-K	0 / 482	0.12 (1)
C-D	-827 / 0	-106.0	-106.0	0.54 (1)	5.77	K-E	-661 / 0	0.74 (1)
D-E	-827 / 0	-106.0	-106.0	0.54 (1)	5.77	E-K	0 / 482	0.12 (1)
E-F	-927 / 0	-70.5	-70.5	0.25 (1)	6.10	I-E	-126 / 66	0.14 (1)
F-G	0 / 40	-70.5	-70.5	0.11 (1)	10.00	B-L	0 / 612	0.15 (1)
M-B	-1248 / 0	0.0	0.0	0.17 (1)	7.16	I-F	0 / 612	0.15 (1)
H-F	-1248 / 0	0.0	0.0	0.17 (1)	7.16			
M-L	0 / 0	-26.3	-26.3	0.14 (4)	10.00			
L-K	0 / 651	-26.3	-26.3	0.19 (4)	10.00			
K-J	0 / 651	-26.3	-26.3	0.19 (4)	10.00			
J-I	0 / 651	-26.3	-26.3	0.19 (4)	10.00			
I-H	0 / 0	-26.3	-26.3	0.14 (4)	10.00			

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
C	4-0-4	-119	-119	---	FRONT	VERT	TOTAL
E	14-3-12	-119	-119	---	FRONT	VERT	TOTAL

JSI GRIP= 0.90 (L) (INPUT = 0.90)
JSI METAL= 0.23 (M) (INPUT = 1.00)

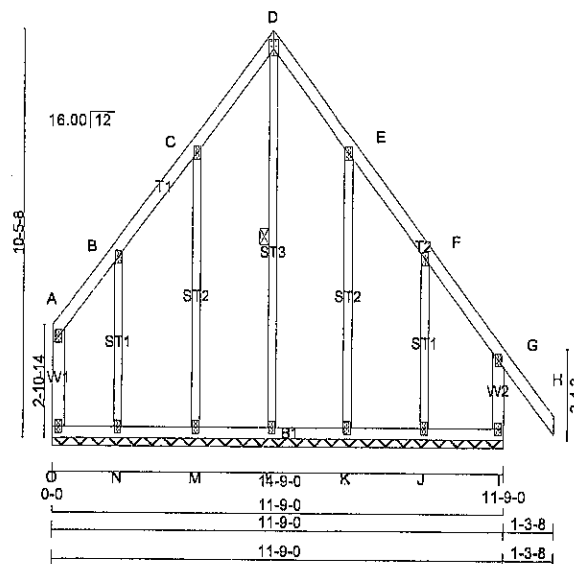


A-1073520

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
252532	H08G	1	1	TRUSS DESC.	

Alpa Roof Truss, Maple

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ID:hdKFA8XS_E1ZIH0GL9ahDNzQR2b-kyvBlmN7F4zl_KU6Tw5ZSJ6w_WOBoSm9l0tQyyEK1
3x5 ||
Scale = 1:59.2



TOTAL WEIGHT = 71 lb

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
O - A	2x4	DRY	No.2	SPF
A - D	2x4	DRY	No.2	SPF
D - H	2x4	DRY	No.2	SPF
I - G	2x4	DRY	No.2	SPF
O - I	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				
GABLE STUDS SPACED AT 2'-0" OC.				

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
A - TMV+p	MT20	2.0	4.0	
B, C, E, F				
B - TMW+w	MT20	2.0	4.0	
D - TTW+p	MT20	3.0	5.0	2.00 Edge
G - TMV+p	MT20	2.0	4.0	
I - BMV1+p	MT20	2.0	4.0	
J, K, L, M, N				
J - BMW1+w	MT20	2.0	4.0	
O - BMV1+p	MT20	2.0	4.0	

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

NOTES- (1)
1) Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design.

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 = 6.25FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF D-L.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS (LC)	UNBRACED LENGTH
FR-TO		FROM TO		FR-TO			
O-A	-51 / 0	0.0	0.0 0.01 (1)	7.81	L-D	-152 / 0	0.11 (1)
A-B	-2 / 1	-70.5	-70.5 0.03 (1)	10.00	M-C	-146 / 0	0.16 (1)
B-C	-1 / 2	-70.5	-70.5 0.04 (1)	10.00	N-B	-128 / 0	0.05 (1)
C-D	-1 / 3	-70.5	-70.5 0.04 (1)	10.00	K-E	-150 / 0	0.17 (1)
D-E	-1 / 2	-70.5	-70.5 0.04 (1)	10.00	J-F	-106 / 0	0.04 (1)
E-F	-1 / 5	-70.5	-70.5 0.04 (1)	10.00			
F-G	-23 / 0	-70.5	-70.5 0.08 (1)	6.25			
G-H	0 / 40	-70.5	-70.5 0.10 (1)	10.00			
H-G	-195 / 0	0.0	0.0 0.02 (1)	7.81			
O-N	0 / 3	-17.5	-17.5 0.01 (4)	10.00			
N-M	0 / 1	-17.5	-17.5 0.01 (4)	10.00			
M-L	-2 / 0	-17.5	-17.5 0.01 (4)	10.00			
L-K	-2 / 0	-17.5	-17.5 0.01 (4)	10.00			
K-J	0 / 1	-17.5	-17.5 0.02 (4)	10.00			
J-I	0 / 3	-17.5	-17.5 0.02 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	21.0	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	31.0	PSF

SPACING = 24.0 IN./C

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

(65 % OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.10 (G-H:1), BC=0.02 (I-J:1), WB=0.17 (E-K:1), SS=0.05 (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 = 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
MT20	618	354	1667	822
			2284	1656

PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (G) (INPUT = 0.80)
JSI METAL= 0.06 (G) (INPUT = 1.00)

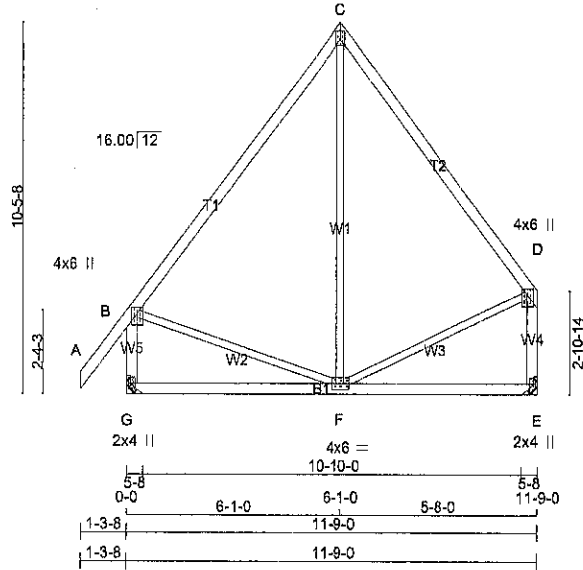


A-11073519

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
252532	H08	3	1	TRUSS DESC.	

Alpa Roof Truss, Maple

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ID:hdKFA8XS_E1ZiH0GL9ahDNzQR2b-kyvBimuIN?F4zl_KU6Tw5ZSG7wy9ODoSm9i0iQyyEK1
3x5 II
Scale = 1:65.1



TOTAL WEIGHT = 3 X 62 = 185 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	1650F 1.5E	SPF
C - D	2x4	DRY	No.2	SPF
G - B	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF
G - E	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	4.0	6.0	2.00	2.00
C	TTW+p	MT20	3.0	5.0	2.00	Edge
D	TMVW+p	MT20	4.0	6.0	2.00	2.00
E	BMV1+p	MT20	2.0	4.0		
F	BMVWV+t	MT20	4.0	6.0		
G	BMV1+p	MT20	2.0	4.0		

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

NOTES- (1)

1) Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design.

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	UPLIFT
G	616	0	616	0
E	517	0	517	0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
G	432	306 / 0	0 / 0	0 / 0	0 / 0	126 / 0	0 / 0
E	364	247 / 0	0 / 0	0 / 0	0 / 0	117 / 0	0 / 0

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 40	-70.5 -70.5	0.08 (1)	10.00	F-C	0 / 100	0.03 (4)
B-C	-263 / 0	-70.5 -70.5	0.28 (1)	6.25	B-F	0 / 166	0.04 (1)
C-D	-263 / 0	-70.5 -70.5	0.29 (1)	6.25	F-D	0 / 173	0.04 (1)
G-B	-575 / 0	0.0 0.0	0.07 (1)	7.81			
E-D	-480 / 0	0.0 0.0	0.06 (1)	7.81			
G-F	0 / 0	-17.5 -17.5	0.17 (4)	10.00			
F-E	0 / 0	-17.5 -17.5	0.17 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 21.0	PSF
DL = 3.0	PSF	
BOT CH.	LL = 0.0	PSF
DL = 7.0	PSF	
TOTAL LOAD = 31.0	PSF	

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.39")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.39")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.29 (C-D:1), BC=0.17 (E-F:4), WB=0.04 (D-F:1), SSI=0.10 (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)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	615 354	1667 822	2284 1656

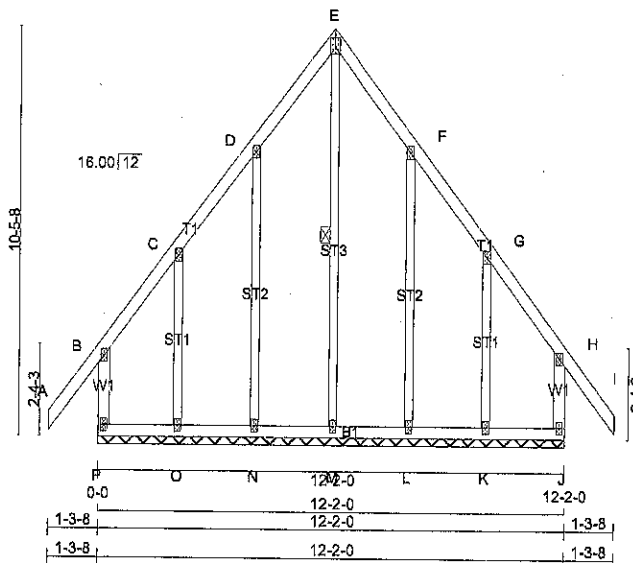
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.33 (B) (INPUT = 0.90)
JSI METAL= 0.11 (G) (INPUT = 1.00)



A-11073518



LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
P - B	2x4	DRY	No.2	SPF
A - E	2x4	DRY	No.2	SPF
E - I	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
P - J	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				
GABLE STUDS SPACED AT 2-0-0 OC.				

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
C, D, F, G						
E	TTW+w	MT20	2.0	4.0		
H	TMV+p	MT20	3.0	5.0	2.00	Edge
J	BMV1+p	MT20	2.0	4.0		
K, L, M, N, O						
K	BMV1+w	MT20	2.0	4.0		
P	BMV1+p	MT20	2.0	4.0		

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

NOTES- (1)

1) Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design.

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 = 10.00FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25FT. OR RIGID CEILING DIRECTLY APPLIED.

1 LATERAL BRACE(S) REQUIRED AT 1/2 LENGTH OF E-M.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
P-B	-179 / 0	0.0	0.03 (1)	7.81	M-E	-174 / 0	0.13 (1)
A-B	0 / 40	-70.5	-70.5 0.10 (1)	10.00	N-D	-150 / 0	0.17 (1)
B-C	-4 / 0	-70.5	-70.5 0.07 (1)	10.00	O-C	-112 / 0	0.04 (1)
C-D	0 / 20	-70.5	-70.5 0.04 (1)	10.00	L-F	-150 / 0	0.17 (1)
D-E	0 / 17	-70.5	-70.5 0.04 (1)	10.00	K-G	-112 / 0	0.04 (1)
E-F	0 / 17	-70.5	-70.5 0.04 (1)	10.00			
F-G	0 / 20	-70.5	-70.5 0.04 (1)	10.00			
G-H	-4 / 0	-70.5	-70.5 0.07 (1)	10.00			
H-I	0 / 40	-70.5	-70.5 0.10 (1)	10.00			
J-H	-179 / 0	0.0	0.03 (1)	7.81			
P-O	-6 / 0	-17.5	-17.5 0.02 (4)	10.00			
O-N	-9 / 0	-17.5	-17.5 0.02 (4)	10.00			
N-M	-11 / 0	-17.5	-17.5 0.01 (4)	6.25			
M-L	-11 / 0	-17.5	-17.5 0.01 (4)	6.25			
L-K	-9 / 0	-17.5	-17.5 0.02 (4)	10.00			
K-J	-6 / 0	-17.5	-17.5 0.02 (4)	10.00			

TOTAL WEIGHT = 74 lb (M)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	21.0	PSF
DL	=	3.0	PSF	
BOT CH.	LL	=	0.0	PSF
DL	=	7.0	PSF	
TOTAL LOAD	=	31.0	PSF	

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.10 (H-I:1), BC=0.02 (K-L:4), WB=0.17 (D-N:1), SSI=0.05 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 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
MT20	618	354	1667 822 2284 1665

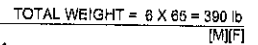
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (E) (INPUT = 0.90)
JSI METAL= 0.05 (H) (INPUT = 1.00)



A-10073517



SPECIFIED LOADS:

TOP CH.	LL =	21.0	PSF
	DL =	3.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	31.0	PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 23.0 P.S.F. G.S.L. PLUS
8.4 P.S.F. RAIN LOAD EQUALS
21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.41")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.41")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CS: TC=0.28 (C-D:1), BC=0.19 (G-H:4),
WB=0.04 (D-G:1), SS=0.10 (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

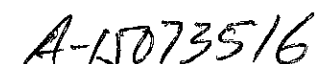
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES					
PLATE	GRIP(DRY)		SHEAR		SECTION
	(PSI)		(PLI)		(PLI)
	MAX	MIN	MAX	MIN	MAX MIN
MT20	618	354	1667	822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

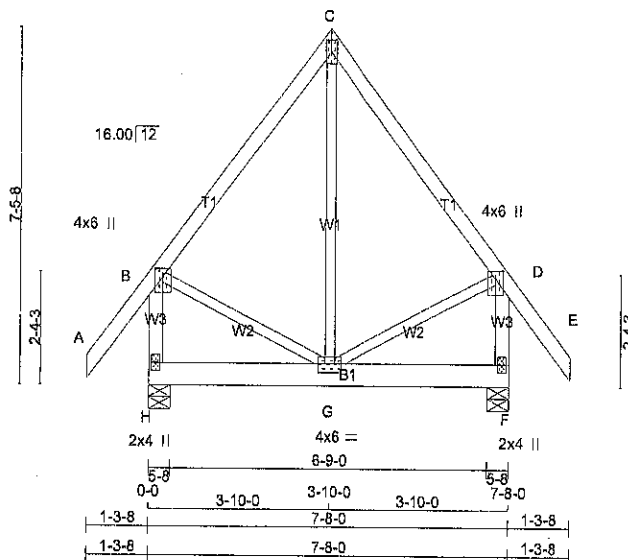
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.35 (B) (INPUT = 0.90)
JSI METAL= 0.11 (F) (INPUT = 1.00)



Alpa Roof Truss, Maple

Version 7.620 S Apr 15 2015 Mitek Industries, Inc. Tue Jul 14 07:22:34 2015 Page 1
ID:hdKFA8XS_E1ZiH0GL9ahDNzQR2b-oZnRt5sSsN?NkRrxNiRS08Nxxv7EHwH89JrGvoYyyEK3
3x6 II
Scale: 1/4"=1'



TOTAL WEIGHT = 50 lb
(M)

LUMBER					
N. L. G. A. RULES					
CHORDS	SIZE	LUMBER	DESCR.		
A - C	2x4	DRY	No.2	SPF	
C - E	2x4	DRY	No.2	SPF	
H - B	2x4	DRY	No.2	SPF	
F - D	2x4	DRY	No.2	SPF	
H - F	2x6	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	4.0	6.0	2.00	2.00
C	TTW+p	MT20	3.0	6.0		
D	TMVW+p	MT20	4.0	6.0	2.00	2.00
F	BMV1+p	MT20	2.0	4.0		
G	BMVWW-H	MT20	4.0	6.0	2.25	3.00
H	BMV1+p	MT20	2.0	4.0		

NOTES- (1)

1) Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design.

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REORD BRG
	VERT	HORZ	DOWN	HORZ		
H	1258	0	1258	0	5-8	1-8
F	1258	0	1258	0	5-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	884	612 / 0	0 / 0	0 / 0	0 / 0	272 / 0	0 / 0
F	884	612 / 0	0 / 0	0 / 0	0 / 0	272 / 0	0 / 0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 / 40	-70.5 -70.5	0.11 (1)	10.00	G-C	0 / 715	0.18 (1)
B-C	-615 / 0	-70.5 -70.5	0.21 (1)	6.25	B-G	0 / 411	0.10 (1)
C-D	-615 / 0	-70.5 -70.5	0.21 (1)	6.25	G-D	0 / 411	0.10 (1)
D-E	0 / 40	-70.5 -70.5	0.11 (1)	10.00			
H-B	-907 / 0	0.0 0.0	0.12 (1)	7.81			
F-D	-907 / 0	0.0 0.0	0.12 (1)	7.81			
H-G	0 / 0	-231.9 -231.9	0.26 (1)	10.00			
G-F	0 / 0	-231.9 -231.9	0.26 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	21.0	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	31.0	PSF

SPACING = 24.0 IN./C

GIRDER TYPE: CStdGirder

START DISTANCE = 0-0
START SPAN CARRIED = 11-9-0
END DISTANCE = 7-8-0
END SPAN CARRIED = 11-9-0
END WALL WIDTH = 0-0
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 23.0 P.S.F. G.S.L. PLUS
8.4 P.S.F. RAIN LOAD EQUALS
21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.26")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/380 (0.26")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.21 (C-D:1), BC=0.26 (G-H:1),
WB=0.18 (C-G:1), SSI=0.36 (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 = 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	815 354	1867 822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

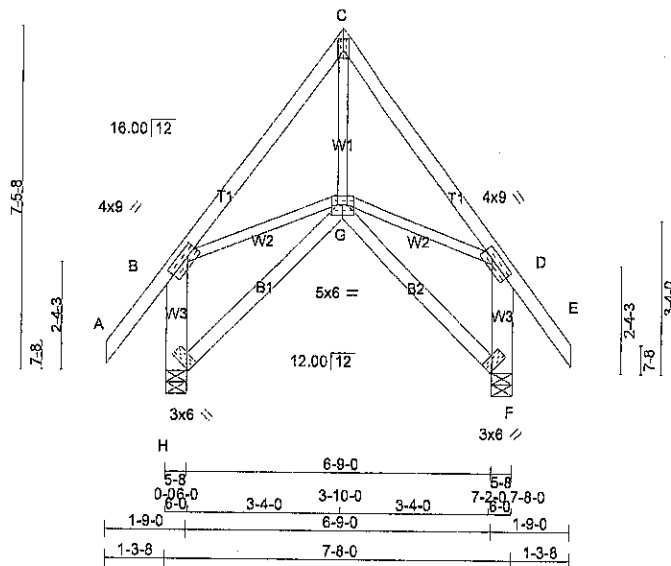
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.80 (G) (INPUT = 0.90)
JSI METAL = 0.18 (G) (INPUT = 1.00)



A-1073515

Alpa Roof Truss, Maple



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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	9.0	2.00	3.00
C	TTW+p	MT20	3.0	5.0	2.00	Edge
D	TMVW-t	MT20	4.0	9.0	2.00	3.00
F	BVM1+H	MT20	3.0	6.0	Edge	0.25
G	BBWWW-p	MT20	6.0	6.0	2.75	3.00
H	BVM1+H	MT20	3.0	6.0	Edge	0.25

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

NOTES- (1)
 1) Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design.

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
H	436	0	436	0	5-8
F	436	0	436	0	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	305	220 / 0	0 / 0	0 / 0	0 / 0	85 / 0	0 / 0
F	305	220 / 0	0 / 0	0 / 0	0 / 0	85 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) H, F
 BEARING SIZE FACTOR = 1.15 AT JNT(S) H (BASED ON SUPPORT DEPTH = 1-8)
 BEARING SIZE FACTOR = 1.15 AT JNT(S) F (BASED ON SUPPORT DEPTH = 1-8)

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 40	-70.5	-70.5 0.10 (1)	G-C	0 / 199	0.04 (1)	
B-C	-293 / 0	-70.5	-70.5 0.13 (1)	B-G	0 / 188	0.04 (1)	
C-D	-293 / 0	-70.5	-70.5 0.13 (1)	G-D	0 / 188	0.04 (1)	
D-E	0 / 40	-70.5	-70.5 0.10 (1)				
H-B	-403 / 0	0.0	0.0 0.04 (1)				
F-D	-403 / 0	0.0	0.0 0.04 (1)				
H-G	0 / 0	-17.5	-17.5 0.08 (4)				
G-F	0 / 0	-17.5	-17.5 0.08 (4)				

TOTAL WEIGHT = 5 X 49 = 246 lb
 (M/F)

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 21.0 PSF
 DL = 3.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.0 PSF
 TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

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

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

(55 % OF 23.0 P.S.F. G.S.L. PLUS
 8.4 P.S.F. RAIN LOAD EQUALS
 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.26")
 CALCULATED VERT. DEFL.(LL)= L/899 (0.00")
 ALLOWABLE DEFL.(TL)= L/360 (0.26")
 CALCULATED VERT. DEFL.(TL)= L/899 (0.02")

CSI: TC=0.13 (C-D:1), BC=0.08 (F-G:4),
 WB=0.04 (C-G:1), SSI=0.06 (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

AUTOSOLVE HEELS OFF

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

NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION
 (PSI) (PLI) (PLI)
 MAX MIN MAX MIN MAX MIN
 MT20 818 354 1687 822 2284 1656

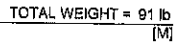
PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.30 (C) (INPUT = 0.90)
 JSI METAL= 0.08 (D) (INPUT = 1.00)



A-11073514

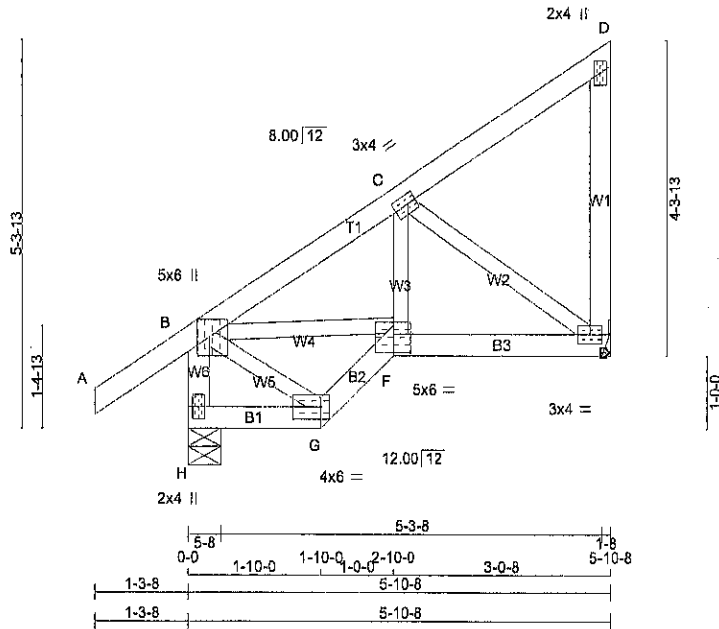


A-110735/3

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
252517	J01C	1	1	TRUSS DESC.	

Alpa Roof Truss, Maple

Version 7.620 S Apr 15 2015 M/Tek Industries, Inc. Mon Jul 13 13:31:55 2015 Page 1
ID:hdKFA8XS_E1ZIH0GL9ahDNzQR2b-B2jSWYSaEyZ8QHPjgsS9yRI_H_dV71xkZ0f9cRyyU7o
Scale: 3/8"=1'



TOTAL WEIGHT = 30 lb

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVWV+p	MT20	5.0	6.0	Edge	
C	TMVWV-t	MT20	3.0	4.0	1.50	1.50
D	TMV+p	MT20	2.0	4.0		
E	BMVWV-t	MT20	3.0	4.0		
F	BBWV-t	MT20	5.0	6.0	3.00	3.00
G	BBW-t	MT20	4.0	6.0	2.00	4.50
H	BMV1+p	MT20	2.0	4.0		

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

NOTES- (1)

1) Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design.

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

FACTORED		MAXIMUM FACTORED		INPUT	REQRD		
GROSS REACTION			GROSS REACTION		BRG	BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
H	355	0	355	0	0	5-8	1-8
E	258	0	258	0	0	HANGER BY OTHERS	
							MIN. SEAT SIZE: 1-8

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	248	181 / 0	0 / 0	0 / 0	0 / 0	67 / 0	0 / 0
E	182	123 / 0	0 / 0	0 / 0	0 / 0	59 / 0	0 / 0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS			WEBS					
MAX. FACTORED		FACTORED			MAX. FACTORED			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX	MAX UNBRAC	MEMB.	FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO	CSI (LC)	LENGTH	FR-TO		
H-B	-339 / 0	0.0	0.0	0.03 (1)	7.81	B-G	0 / 20	0.01 (4)
A-B	0 / 27	-70.5	-70.5	0.08 (1)	10.00	B-F	0 / 209	0.05 (1)
B-C	-257 / 0	-70.5	-70.5	0.10 (1)	6.25	F-C	0 / 57	0.02 (4)
C-D	-13 / 0	-70.5	-70.5	0.10 (1)	6.25	C-E	-271 / 0	0.06 (1)
E-D	-79 / 0	0.0	0.0	0.02 (1)	7.81			
H-G	0 / 0	-17.5	-17.5	0.02 (4)	10.00			
G-F	0 / 25	-17.5	-17.5	0.01 (4)	10.00			
F-E	0 / 223	-17.5	-17.5	0.06 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	21.0	PSF
DL	=	3.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.0	PSF
TOTAL LOAD	=	31.0	PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.10 (B-C:1), BC=0.06 (E-F:1), WB=0.06 (C-E:1), SSI=0.08 (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
	1667	622
	2264	1656

PLATE PLACEMENT TOL. = 0.250 inches

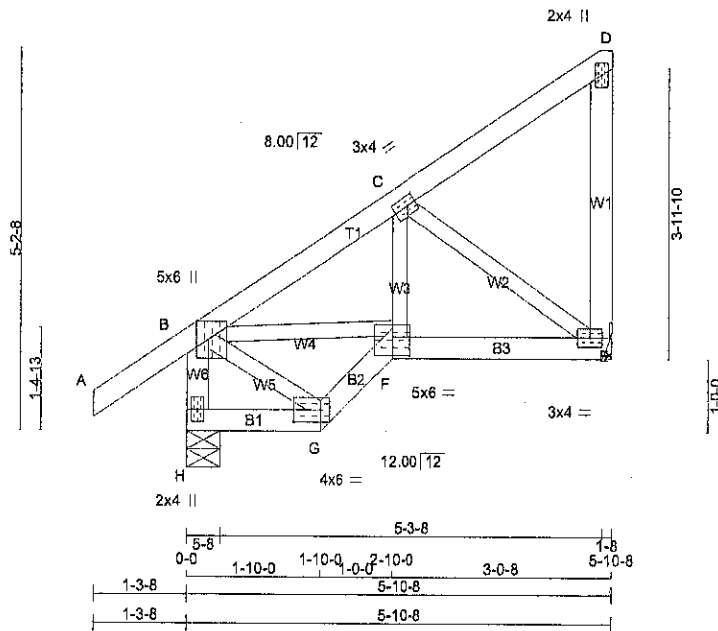
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.52 (B) (INPUT = 0.50)

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



A-15073480



TOTAL WEIGHT = 30 lb [M]

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF
H - B	2x4	DRY	No.2	SPF
H - G	2x4	DRY	No.2	SPF
G - F	2x4	DRY	No.2	SPF
F - E	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	TMVWV+p	MT20	5.0	6.0	Edge	
C	TMVWV-t	MT20	3.0	4.0	1.50	1.50
D	TMV+p	MT20	2.0	4.0		
E	BMVWV-t	MT20	3.0	4.0		
F	BBWV-t	MT20	5.0	6.0	3.00	3.00
G	BBW-t	MT20	4.0	6.0	2.00	4.50
H	BMV-t+p	MT20	2.0	4.0		

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

NOTES- (1)
 1) Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design.

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
E	258	0	258	0
H	355	0	355	0

UNFACTORED REACTIONS

1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
JT	182	123/0	0/0	0/0	0/0	59/0	0/0
E	248	181/0	0/0	0/0	0/0	67/0	0/0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0/27	-70.5 -70.5	0.09 (1)	10.00	B-F	0/209	0.05 (1)
B-C	-257/0	-70.5 -70.5	0.10 (1)	6.25	F-C	0/57	0.02 (4)
C-D	-13/0	-70.5 -70.5	0.10 (1)	6.25	C-E	-271/0	0.06 (1)
E-D	-79/0	0.0 0.0	0.02 (1)	7.81	B-G	0/20	0.01 (4)
H-B	-339/0	0.0 0.0	0.03 (1)	7.81			
H-G	0/0	-17.5 -17.5	0.02 (4)	10.00			
G-F	0/25	-17.5 -17.5	0.01 (4)	10.00			
F-E	0/223	-17.5 -17.5	0.06 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	21.0	PSF
DL	=	3.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.0	PSF
TOTAL LOAD	=	31.0	PSF

SPACING = 24.0 IN. C/C

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

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

(55 % OF 23.0 P.S.F. G.S.L. PLUS
 8.4 P.S.F. RAIN LOAD EQUALS
 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.10 (B-C:1), BC=0.06 (E-F:1), WB=0.06 (C-E:1), SSI=0.08 (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

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 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.52 (B) (INPUT = 0.90)
 JSI METAL= 0.08 (E) (INPUT = 1.00)

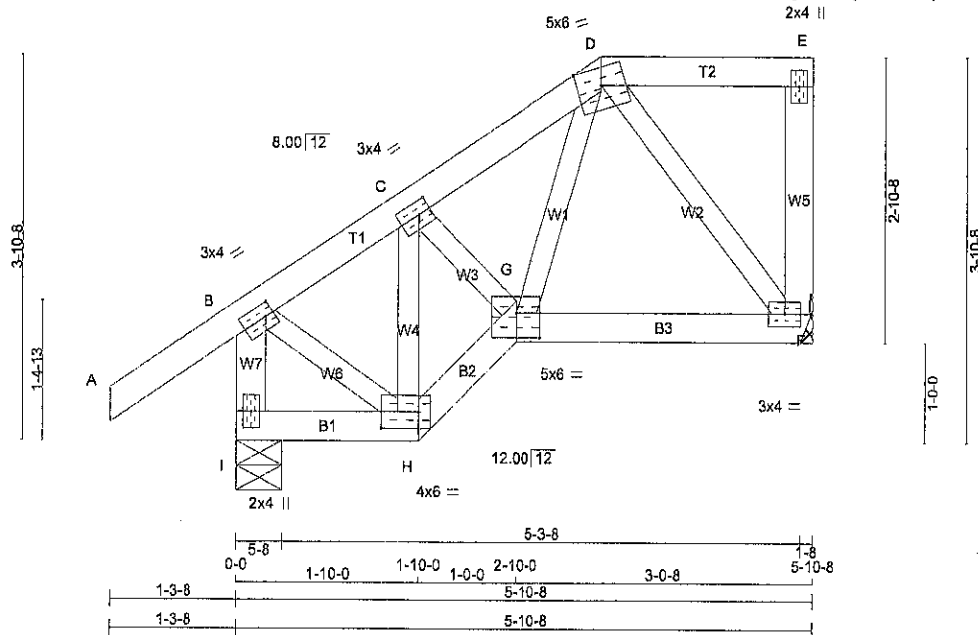


A-15073479

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
252517	J01A	1	1	TRUSS DESC.	

Alpa Roof Truss, Maple

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ID:hdKFA8XS_E1ZIH0GL9ahDNzQR2b-Jr93ICRyTeRH08qX69wwPDlpabHNOa?bLMvc4?yyU?r
Scale = 1:23.3



TOTAL WEIGHT = 29 lb [M]

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

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	3.0	4.0	1.50	1.00
C	TMVW-t	MT20	3.0	4.0	1.50	1.50
D	TTVW-m	MT20	5.0	6.0	Edge	
E	TMV+p	MT20	2.0	4.0		
F	BMVW1-t	MT20	3.0	4.0		
G	BBVW-t	MT20	5.0	6.0	3.00	3.00
H	BBVW-t	MT20	4.0	6.0	2.00	4.50
I	BMV1+p	MT20	2.0	4.0		

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

NOTES- (1)
1) Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design.

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT		REQD	
JT	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	BRG
JT	247	0	247	0	0	0	0
I	366	0	366	0	0	5-8	1-8

UNFACTORED REACTIONS

JT	1ST LOASE	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	174	117 / 0	0 / 0	0 / 0	0 / 0	0 / 0	58 / 0	0 / 0
I	256	186 / 0	0 / 0	0 / 0	0 / 0	0 / 0	65 / 0	0 / 0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED		
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MAX UNBRAC	MEMB.	FORCE (LBS)	MAX (LC)	
FR-TO		FROM	TO	LENGTH	FR-TO			
A-B	0 / 27	-70.5	-70.5	0.09 (1)	10.00	H-C	-170 / 0	0.03 (1)
B-C	-173 / 0	-70.5	-70.5	0.09 (1)	6.25	C-G	0 / 61	0.01 (1)
C-D	-197 / 0	-70.5	-70.5	0.04 (1)	6.25	G-D	0 / 119	0.03 (1)
D-E	0 / 0	-70.5	-70.5	0.06 (1)	10.00	D-F	-190 / 0	0.04 (1)
F-E	-76 / 0	0.0	0.0	0.01 (1)	7.81	B-H	0 / 148	0.03 (1)
I-B	-350 / 0	0.0	0.0	0.04 (1)	7.81			
I-H	0 / 0	-17.5	-17.5	0.02 (4)	10.00			
H-G	0 / 171	-17.5	-17.5	0.03 (1)	10.00			
G-F	0 / 123	-17.5	-17.5	0.06 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	21.0	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	31.0	PSF

SPACING = 24.0 IN./C/C

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

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

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 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.09 (A-B:1), BC=0.06 (F-G:4), WB=0.04 (D-F:1), SSI=0.06 (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

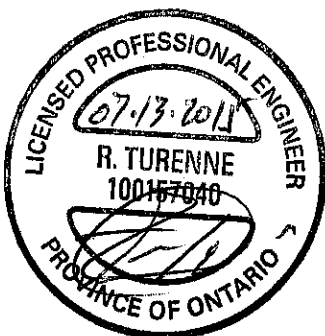
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 822 2264 1656

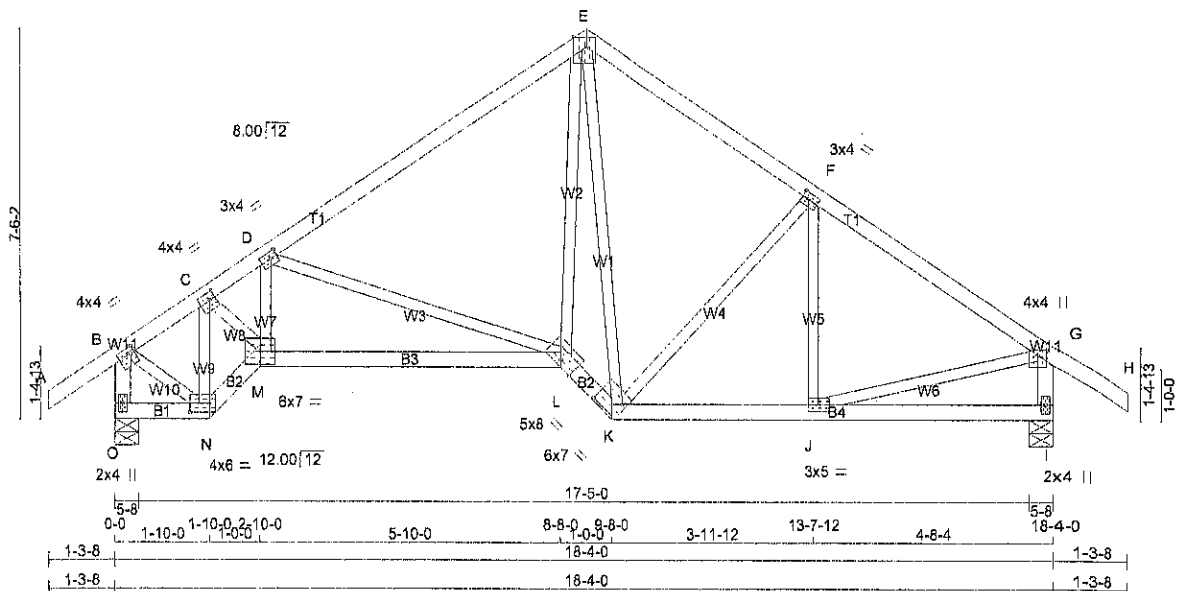
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.48 (B) (INPUT = 0.80)
JSI METAL= 0.10 (B) (INPUT = 1.00)



A-15073478



LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

A - 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 - N	2x4	DRY	No.2	SPF
N - M	2x4	DRY	No.2	SPF
M - L	2x4	DRY	No.2	SPF
L - 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	TMVW-t	MT20	4.0	4.0	1.50	1.00
C	TMWW-t	MT20	4.0	4.0	1.75	1.50
D	TMWW-t	MT20	3.0	4.0	1.50	1.50
E	TTWW+p	MT20	5.0	6.0	Edge	3.00
F	TMWW-t	MT20	3.0	4.0	1.50	1.50
G	TMVW+p	MT20	4.0	4.0	1.25	2.00
I	BMV1+p	MT20	2.0	4.0		
J	BMWW-t	MT20	3.0	5.0		
K	BBWW-h	MT20	6.0	7.0	3.75	6.00
L	BBWW-h	MT20	5.0	8.0	Edge	
M	BBWW-t	MT20	6.0	7.0		
N	BBWW-t	MT20	4.0	6.0	2.00	4.50
O	BMV1+p	MT20	2.0	4.0		

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

NOTES- (1)

1) Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design.

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
O	907	0	907	0
I	899	0	899	0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. SNOW	MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
O	636	444 / 0	0 / 0	0 / 0	0 / 0	192 / 0	0 / 0
I	631	440 / 0	0 / 0	0 / 0	0 / 0	191 / 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 = 5.67 FT.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX UNBRAC LENGTH	MEMB.	WEBS MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 27	-70.5 -70.5	0.09 (1)	10.00	N-C	-768 / 0	0.12 (1)
B-C	-677 / 0	-70.5 -70.5	0.08 (1)	6.25	C-M	0 / 888	0.20 (1)
C-D	-1152 / 0	-70.5 -70.5	0.30 (1)	5.57	M-D	-104 / 57	0.02 (4)
D-E	-761 / 0	-70.5 -70.5	0.33 (1)	6.25	D-L	-512 / 0	0.35 (1)
E-F	-666 / 0	-70.5 -70.5	0.19 (1)	6.25	L-E	0 / 781	0.18 (1)
F-G	-838 / 0	-70.5 -70.5	0.20 (1)	6.25	E-K	-313 / 0	0.32 (1)
G-H	0 / 27	-70.5 -70.5	0.09 (1)	10.00	K-F	-272 / 0	0.15 (1)
O-B	-890 / 0	0.0 0.0	0.09 (1)	7.81	J-F	-79 / 51	0.02 (1)
I-G	-885 / 0	0.0 0.0	0.09 (1)	7.81	B-N	0 / 607	0.14 (1)
					J-G	0 / 734	0.17 (1)
O-N	0 / 0	-17.5 -17.5	0.02 (4)	10.00			
N-M	0 / 893	-17.5 -17.5	0.11 (1)	10.00			
M-L	0 / 1096	-17.5 -17.5	0.28 (1)	10.00			
L-K	0 / 777	-17.5 -17.5	0.13 (1)	10.00			
K-J	0 / 715	-17.5 -17.5	0.16 (1)	10.00			
J-I	0 / 0	-17.5 -17.5	0.09 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 21.0 PSF

DL = 3.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.0 PSF

TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, CBC 2012, ABC 2014

- CSA 086-09

- TPIC 2011

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 23.0 P.S.F. G.S.L. PLUS

8.4 P.S.F. RAIN LOAD EQUALS

21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.61")

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

ALLOWABLE DEFL.(TL)= L/360 (0.61")

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

CSI: TC=0.33 (D-E:1), BC=0.28 (L-M:1), WB=0.35 (D-L:1), SSI=0.21 (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)	(PLI)
MAX	MIN	MAX	MIN
MT20	618	354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.81 (C) (INPUT = 0.90)

JSI METAL= 0.29 (B) (INPUT = 1.00)

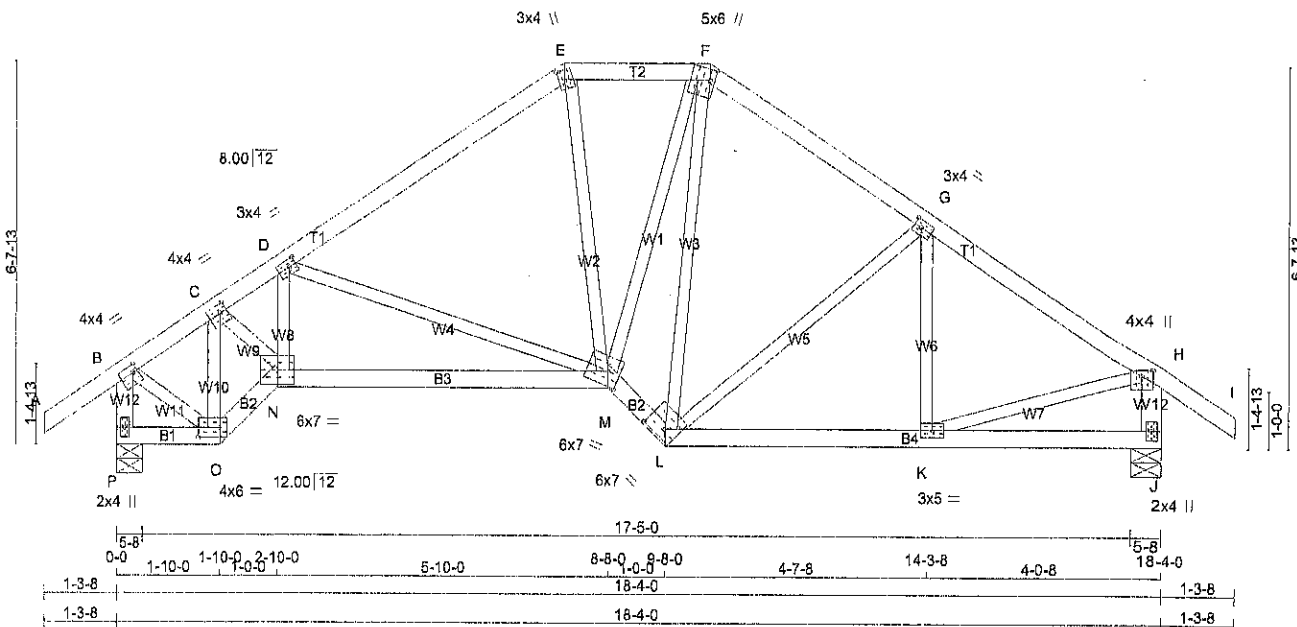


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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
252517	H02T	1	1	TRUSS DESC.	

Alpa Roof Truss, Maple

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ID:hdKFA8XS_E1ZIH0GL9ahDNzQR2b-QN65fXwq?PGfAAoFZe_dVKJPcCWBLM/7SYLQ4gyyVX.
Scale = 1:40.2



TOTAL WEIGHT = 87 lb

LUMBER	N. L. G. A. RULES	SIZE	LUMBER	DESCR.
A - E	2x4	DRY	No.2	SPF
E - 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 - O	2x4	DRY	No.2	SPF
O - N	2x4	DRY	No.2	SPF
N - M	2x4	DRY	No.2	SPF
M - L	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

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

DESIGNER							
BEARINGS							
	FACTORED		MAXIMUM FACTORED			INPUT	REQRD
	GROSS REACTION		GROSS REACTION			BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
P	907	0	907	0	0	5-8	1-8
J	899	0	899	0	0	5-8	1-8

UNFACTORED REACTIONS

JT	1ST CASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
P	636	444 / 0	0 / 0	0 / 0	0 / 0	192 / 0	0 / 0
J	631	440 / 0	0 / 0	0 / 0	0 / 0	191 / 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 = 5.73FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. FACTORED VERT. LOAD LC1 (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD LC1 (PLF)	MAX. FACTORED VERT. LOAD LC1 (PLF)
FR-TO				FR-TO			
A-B	0 / 27	-70.5	-70.5 0.09 (1)	O-C	-782 / 0	0.13 (1)	0.13 (1)
B-C	-682 / 0	-70.5	-70.5 0.07 (1)	C-N	0 / 797	0.18 (1)	0.18 (1)
C-D	-1151 / 0	-70.5	-70.5 0.18 (1)	N-D	-28 / 67	0.02 (4)	0.02 (4)
D-E	-797 / 0	-70.5	-70.5 0.20 (1)	D-M	-416 / 0	0.26 (1)	0.26 (1)
E-F	-677 / 0	-70.5	-70.5 0.06 (1)	E-M	0 / 203	0.05 (1)	0.05 (1)
F-G	-679 / 0	-70.5	-70.5 0.14 (1)	M-F	0 / 532	0.12 (1)	0.12 (1)
G-H	-838 / 0	-70.5	-70.5 0.15 (1)	L-F	-331 / 0	0.25 (1)	0.25 (1)
H-I	0 / 27	-70.5	-70.5 0.09 (1)	L-G	-210 / 0	0.13 (1)	0.13 (1)
P-B	-890 / 0	0.0	0.0 0.09 (1)	K-G	-104 / 42	0.03 (1)	0.03 (1)
J-H	-872 / 0	0.0	0.0 0.09 (1)	B-O	0 / 618	0.14 (1)	0.14 (1)
				K-H	0 / 737	0.17 (1)	0.17 (1)
P-O	0 / 0	-17.5	-17.5 0.02 (4)				
O-N	0 / 706	-17.5	-17.5 0.12 (1)				
N-M	0 / 1040	-17.5	-17.5 0.27 (1)				
M-L	0 / 718	-17.5	-17.5 0.12 (1)				
L-K	0 / 712	-17.5	-17.5 0.16 (1)				
K-J	0 / 0	-17.5	-17.5 0.09 (4)				

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	4.0	1.50	1.00
C	TMVW-t	MT20	4.0	4.0	1.75	1.50
D	TMVW-t	MT20	3.0	4.0	1.50	1.50
E	TTW+m	MT20	3.0	4.0	2.00	1.25
F	TTW+m	MT20	5.0	6.0	2.25	1.00
G	TMVW-t	MT20	3.0	4.0	1.50	1.50
H	TMVW-p	MT20	4.0	4.0	1.25	2.00
J	BMV1+p	MT20	2.0	4.0		
K	BMVW-t	MT20	3.0	5.0		
L	BBVW-h	MT20	6.0	7.0	2.00	4.25
M	BBVW-m	MT20	6.0	7.0	3.00	2.50
N	BBVW-h	MT20	6.0	7.0		
O	BBVW-t	MT20	4.0	6.0	2.00	4.50
P	BMV1+p	MT20	2.0	4.0		

NOTES- (1)

1) Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design.



DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	21.0	PSF
DL	=	3.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.0	PSF
TOTAL LOAD	=	31.0	PSF

SPACING = 24.0 IN. C/C

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

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

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 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.61")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL) = L/360 (0.61")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.20 (D-E:1), BC=0.27 (M-N:1), WB=0.26 (D-M:1), SSI=0.14 (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)	(PLI)
MAX	MIN	MAX	MIN
MT20	618	354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (E) (INPUT = 0.90)
JSI METAL= 0.29 (B) (INPUT = 1.00)

A-15073471



CONTINUED ON PAGE 2



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
252517	H01T	1	1	TRUSS DESC.	

Alpa Roof Truss, Maple

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ID:hdKFA8XS E1ZIH0GL9ahDNzQR2b-yBYISBvBE58oZ1D30wTOz7m8Y07lcofzDuctXEyyVXk

HANGERS NOTES

- 1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 301.8 lbs FACTORED DOWN AT 12-5-8 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

NOTES- (1)

- 1) Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design.

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

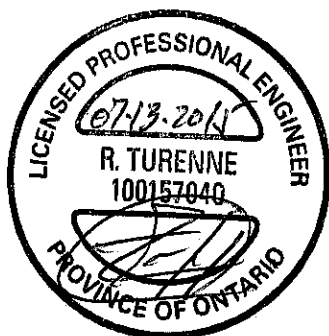
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (G) (INPUT = 0.90)
JSI METAL= 0.51 (L) (INPUT = 1.00)

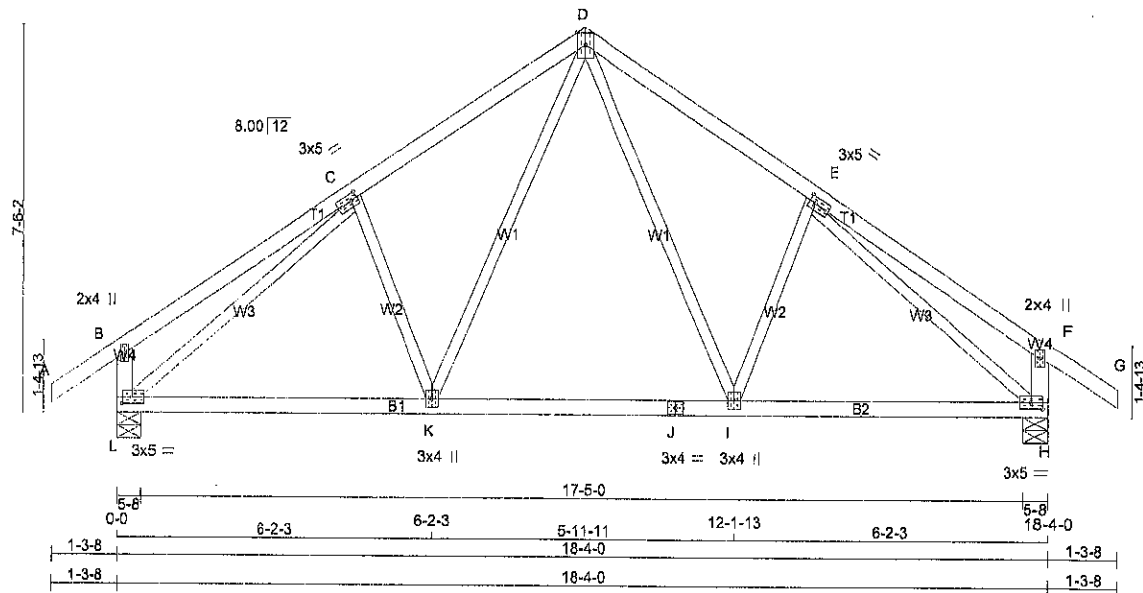


A-15073470(2)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
252512	H03	14	1	TRUSS DESC.	

Alpa Roof Truss, Maple

Version 7.620 S Apr 15 2015 M/Tek Industries, Inc. Mon Jul 13 08:58:51 2015 Page 1
ID: gUzNWMpyWh_3Mf_ncsznAqzVRmF-v1kdtHATHzLpQurtwV2wNj1pVkJGJvD94_gBZ4yyY?o
4x6 II
Scale = 1:44.9



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

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMV+p	MT20	2.0	4.0
C	TMWW-i	MT20	3.0	5.0 1.50 1.50
D	TTWW+p	MT20	4.0	6.0 Edge
E	TMWW-i	MT20	3.0	5.0 1.50 1.50
F	TMV+p	MT20	2.0	4.0
H	BMVW1-i	MT20	3.0	5.0 1.50 2.25
I	BMVW1-i	MT20	3.0	4.0
J	BS-i	MT20	3.0	4.0
K	BMVW1-i	MT20	3.0	4.0
L	BMVW1-i	MT20	3.0	5.0 1.50 2.25

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

NOTES- (1)
1) Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design.

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
L	903	0	903	0	5-8
H	903	0	903	0	5-8

UNFACTORED REACTIONS

JT	1ST CASE	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
L	COMBINED	634	442 / 0	0 / 0	0 / 0	0 / 0	192 / 0	0 / 0
H	COMBINED	634	442 / 0	0 / 0	0 / 0	0 / 0	192 / 0	0 / 0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 27	-70.5	-70.5	0.09 (1)	10.00	D-I	0 / 323
B-C	0 / 21	-70.5	-70.5	0.24 (1)	10.00	J-E	-196 / 3
C-D	-784 / 0	-70.5	-70.5	0.19 (1)	6.25	K-D	0 / 323
D-E	-784 / 0	-70.5	-70.5	0.19 (1)	6.25	C-K	-196 / 3
E-F	0 / 21	-70.5	-70.5	0.24 (1)	10.00	L-C	-953 / 0
F-G	0 / 27	-70.5	-70.5	0.09 (1)	10.00	E-H	-953 / 0
L-B	-219 / 0	0.0	0.0	0.02 (1)	7.81		
H-F	-219 / 0	0.0	0.0	0.02 (1)	7.81		
L-K	0 / 707	-17.5	-17.5	0.20 (4)	10.00		
K-J	0 / 511	-17.5	-17.5	0.19 (4)	10.00		
J-I	0 / 511	-17.5	-17.5	0.19 (4)	10.00		
I-H	0 / 707	-17.5	-17.5	0.20 (4)	10.00		

TOTAL WEIGHT = 14 X 81 = 1128 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	21.0	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	31.0	PSF

SPACING = 24.0 IN. C/C

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

(55 % OF 23.0 P.S.F. G.S.L. PLUS
8.4 P.S.F. RAIN LOAD EQUALS
21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.81")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.02")
ALLOWABLE DEFL.(TL) = $L/360$ (0.61")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.06")

CSI: TC=0.24 (E-F:1), BC=0.20 (H-I:4), WB=0.62 (E-H:1), SSI=0.13 (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 1667 822 2264 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (E) (INPUT = 0.90)
JSI METAL= 0.30 (C) (INPUT = 1.00)

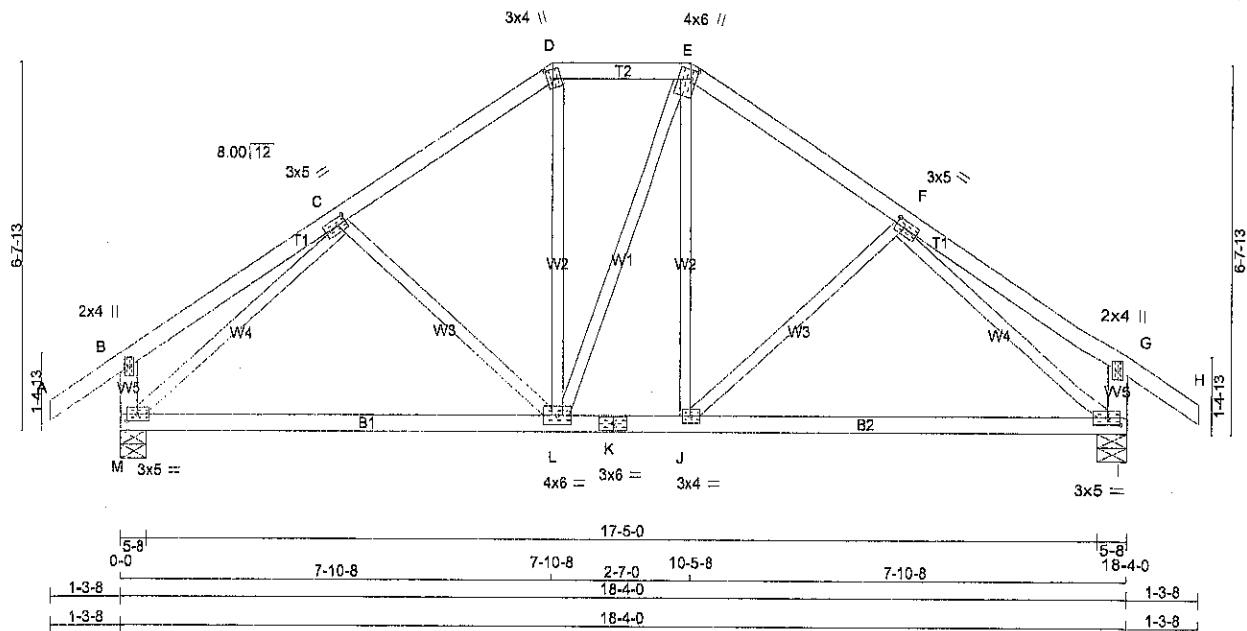


A-11073442

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
252512	H02	1	1	TRUSS DESC.	

Alpa Roof Truss, Maple

Version 7.820 S Apr 15 2015 Mitek Industries, Inc. Mon Jul 13 08:58:51 2015 Page 1
ID: gUzNWMpyWh_3Mf_ncsznAqzVRmF-v1kdHAThzLqpQurtwV2wNj2Vj1Jyv94_qBZ4yyY7o
Scale = 1:41.8



TOTAL WEIGHT = 83 lb
(M)(F)

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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
C	TMWW-t	MT20	3.0	5.0	1.50	2.00
D	TTW+m	MT20	3.0	4.0	2.00	1.25
E	TTWW+m	MT20	4.0	6.0	2.00	1.00
F	TMWW-t	MT20	3.0	5.0	1.50	2.00
G	TMV+p	MT20	2.0	4.0		
I	BMVW1-t	MT20	3.0	5.0	1.50	2.25
J	BMWW-t	MT20	3.0	4.0		
K	BS-t	MT20	3.0	6.0		
L	BMWW-t	MT20	4.0	6.0		
M	BMVW1-t	MT20	3.0	5.0	1.50	2.25

NOTES- (1)

1) Lateral brace(s) shown shall be 1x4 for Part 9 design as per OBC 9.23.13.11, and no less than 2x4 for Part 4 design.

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
M	903	0	903	0	5-8	1-8
I	903	0	903	0	5-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX / MIN	COMPONENT REACTIONS	DEAD	SOIL
M	634	442 / 0	0 / 0	0 / 0	0 / 0
I	634	442 / 0	0 / 0	0 / 0	0 / 0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX CSI (LC)
FR-TO		FROM TO	CSI (LC)	LENGTH	FR-TO		
A-B	0 / 27	-70.5	-70.5	0.09 (1)	10.00	C-L	-133 / 10 0.07 (1)
B-C	0 / 18	-70.5	-70.5	0.17 (1)	10.00	L-D	0 / 192 0.04 (1)
C-D	-718 / 0	-70.5	-70.5	0.14 (1)	6.25	L-E	0 / 1 0.00 (1)
D-E	-586 / 0	-70.5	-70.5	0.06 (1)	6.25	J-E	0 / 191 0.04 (1)
E-F	-719 / 0	-70.5	-70.5	0.14 (1)	6.25	J-F	-133 / 10 0.07 (1)
F-G	0 / 18	-70.5	-70.5	0.17 (1)	10.00	M-C	-936 / 0 0.44 (1)
G-H	0 / 27	-70.5	-70.5	0.09 (1)	10.00	F-I	-935 / 0 0.44 (1)
M-B	-203 / 0	0.0	0.0	0.02 (1)	7.81		
I-G	-203 / 0	0.0	0.0	0.02 (1)	7.81		
M-L	0 / 681	-17.5	-17.5	0.28 (4)	10.00		
L-K	0 / 586	-17.5	-17.5	0.28 (4)	10.00		
K-J	0 / 586	-17.5	-17.5	0.28 (4)	10.00		
J-I	0 / 681	-17.5	-17.5	0.27 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 31.0 PSF

SPACING = 24.0 IN./C/C

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

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

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

(65 % OF 23.0 P.S.F. G.S.L. PLUS
8.4 P.S.F. RAIN LOAD EQUALS
21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.61")
CALCULATED VERT. DEFL.(LL) = L/998 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.61")
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CS1: TC=0.17 (F-G:1), BC=0.28 (J-L:4), WB=0.44 (C-M:1), SSI=0.11 (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 = 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 1867 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.88 (E) (INPUT=0.90)
JSI METAL=0.42 (K) (INPUT=1.00)

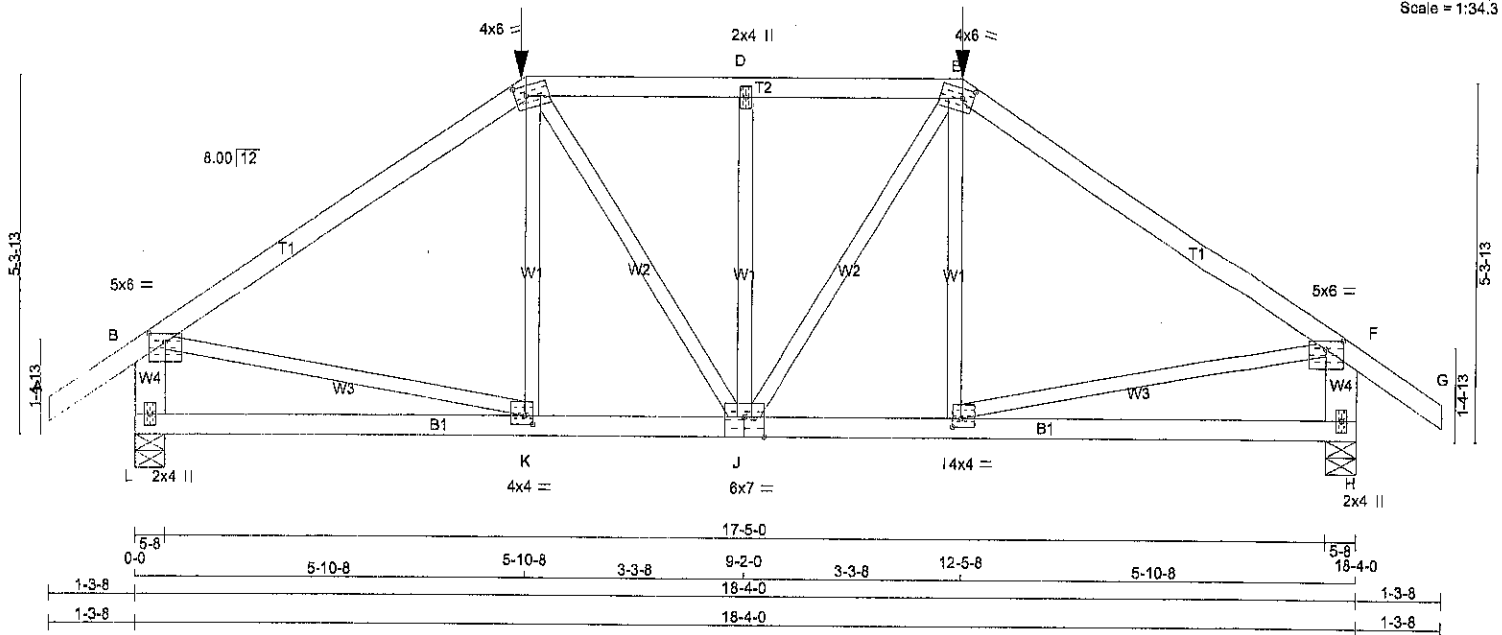


A-15073441

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
252512	H01	1	1	TRUSS DESC.	

Alpa Roof Truss, Maple

Version 7.020 S Apr 15 2015 MITek Industries, Inc. Mon Jul 13 08:58:50 2015 Page 1
ID: gUzNWMpyWh_3Mf_ncsznAqzVRmF-RrAEfx9wDzBGJfJD_pNAAmASLjaW20rL5e1eyY?p
Scale = 1:34.3



TOTAL WEIGHT = 82 lb
(M)

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF	
C - E	2x4	DRY	No.2	SPF	
E - G	2x4	DRY	No.2	SPF	
L - B	2x6	DRY	No.2	SPF	
H - F	2x6	DRY	No.2	SPF	
L - J	2x4	DRY	No.2	SPF	
J - H	2x4	DRY	No.2	SPF	

ALL WEBS 2x3 DRY No.2 SPF

EXCEPT
DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B - TMVW-p	MT20	5.0	6.0	1.50	3.00
C - TTWW-m	MT20	4.0	6.0	1.75	2.00
D - TMW-w	MT20	2.0	4.0		
E - TTWW-m	MT20	4.0	6.0	1.75	2.00
F - TMVW-p	MT20	5.0	6.0	1.50	3.00
H - BMV1+p	MT20	2.0	4.0		
I - BMWW-t	MT20	4.0	4.0	1.50	1.50
J - BSWWW-l	MT20	6.0	7.0	Edge	3.50
K - BMWW-t	MT20	4.0	4.0	1.50	1.50
L - BMV1+p	MT20	2.0	4.0		

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

HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 301.8 lbs FACTORED DOWN AT 12-5-8, AND 301.8 lbs FACTORED DOWN AT 5-10-8 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

NOTES- (1)
-1)

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
L	1585	0	1585	0	0	5-8	1-11		
H	1585	0	1585	0	0	5-8	1-11		

UNFACTORED REACTIONS

1ST LC CASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	1117	756 / 0	0 / 0	0 / 0	0 / 0	361 / 0	0 / 0
H	1117	756 / 0	0 / 0	0 / 0	0 / 0	361 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.38FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00FT. OR RIGID CEILING DIRECTLY APPLIED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 27	-70.5 -70.5	0.10 (1)	10.00	K-C	-37 / 163	0.06 (4)
B-C	-1694 / 0	-70.5 -70.5	0.62 (1)	4.38	C-J	0 / 341	0.08 (1)
C-D	-1594 / 0	-138.7 -138.7	0.29 (1)	4.86	J-D	-544 / 0	0.24 (1)
D-E	-1594 / 0	-138.7 -138.7	0.29 (1)	4.86	J-E	0 / 341	0.06 (1)
E-F	-1694 / 0	-70.5 -70.5	0.62 (1)	4.38	I-E	-37 / 163	0.06 (4)
F-G	0 / 27	-70.5 -70.5	0.10 (1)	10.00	B-K	0 / 1430	0.35 (1)
L-B	-1500 / 0	0.0 0.0	0.11 (1)	7.81	I-F	0 / 1430	0.35 (1)
H-F	-1500 / 0	0.0 0.0	0.11 (1)	7.81			
L-K	0 / 0	-34.5 -34.5	0.29 (4)	10.00			
K-J	0 / 1407	-34.5 -34.5	0.41 (4)	10.00			
J-I	0 / 1407	-34.5 -34.5	0.41 (4)	10.00			
I-H	0 / 0	-34.5 -34.5	0.29 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE
C	5-10-8	-302	-302	---	FRONT	VERT	TOTAL
E	12-5-8	-302	-302	---	FRONT	VERT	TOTAL

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	21.0	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	31.0	PSF

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 5-10-8
END SETBACK = 5-10-8
END WALL WIDTH = 0-0
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADD'L LOADS BASED ON 55% OF GSL.

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

(55% OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.61")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.61")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.82 (B-C:1), BC=0.41 (J-K:4), WB=0.35 (F-I:1), SSI=0.24 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)	MAX MIN	MAX MIN
MT20	618	354	1667	822 2284 1656

PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (E) (INPUT = 0.90)
JSI METAL= 0.53 (K) (INPUT = 1.00)



A-15073440

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 086-14
- 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.

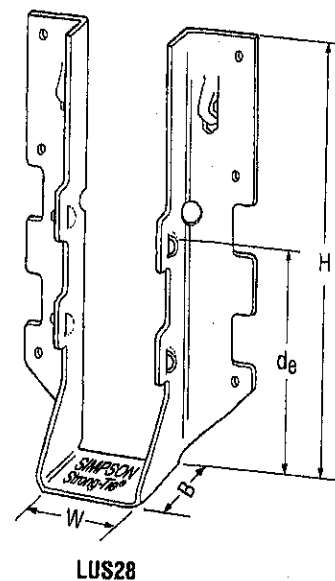
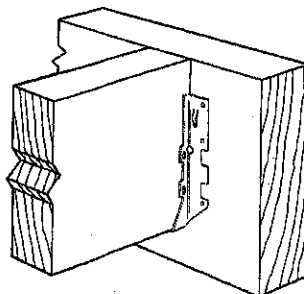
INSTALLATION:

- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3 1/4" 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:

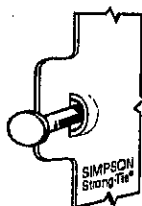
- These hangers cannot be modified.

Typical LUS
Installation



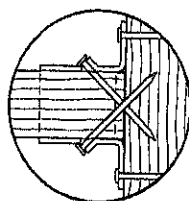
Model No.	Ga	Dimensions (in)				Fasteners		Factored Resistance (lbs)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K _D =1.15)	Normal (K _D =1.00)	Uplift (K _D =1.15)	Normal (K _D =1.00)
LUS24	18	1 1/8	3 1/8	1 1/4	1 1/16	4-10d	2-10d	710	1630	645	1155
LUS24-2	18	3 1/8	3 1/8	2	1 1/16	4-16d	2-16d	835	2020	590	1435
LUS26	18	1 1/8	4 3/4	1 1/4	3 3/8	4-10d	4-10d	1420	2170	1290	1630
LUS26-2	18	3 1/8	4 7/8	2	4	4-16d	4-16d	1720	2595	1545	1920
LUS26-3	18	4 3/8	4 3/8	2	3 3/4	4-16d	4-16d	1720	2595	1545	2340
LUS28	18	1 1/8	6 3/8	1 1/4	3 3/4	6-10d	4-10d	1420	2520	1290	1790
LUS28-2	18	3 1/8	7	2	4	6-16d	4-16d	1720	3325	1545	2575
LUS28-3	18	4 3/8	6 1/4	2	3 3/4	6-16d	4-16d	1720	3325	1545	2375
LUS210	18	1 1/8	7 1/16	1 1/4	3 3/8	8-10d	4-10d	1420	2785	1290	2210
LUS210-2	18	3 1/8	9	2	6	8-16d	6-16d	2580	4500	2320	3195
LUS210-3	18	4 3/8	8 3/16	2	5 1/4	8-16d	6-16d	2580	3345	2320	2375

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

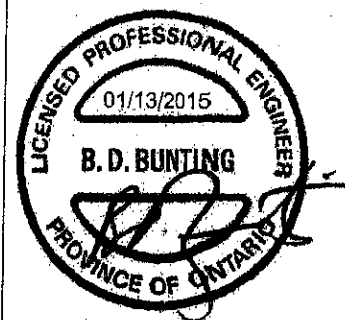


Double
Shear
Nailing
Top View.

U.S. Patent
5,603,580

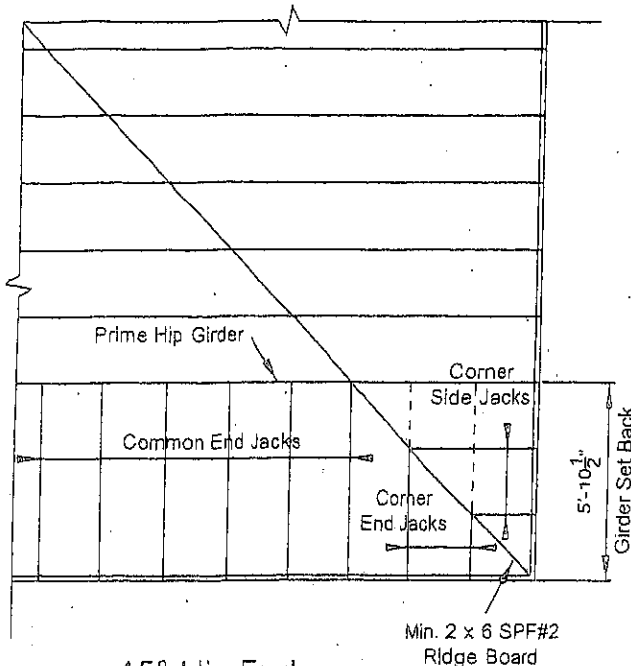


Double
Shear
Nailing
Top View.



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STRACON ENGINEERING INC.



45° Hip End

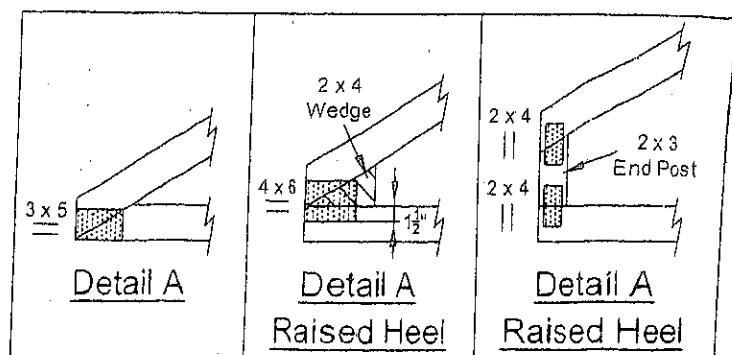
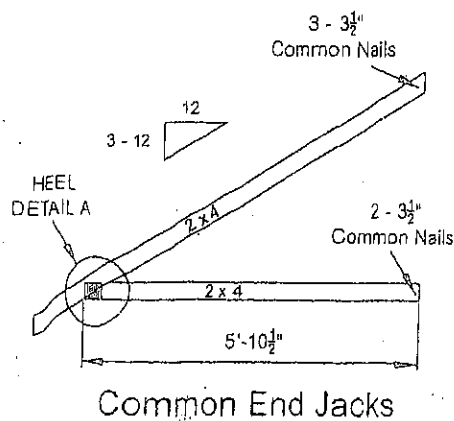
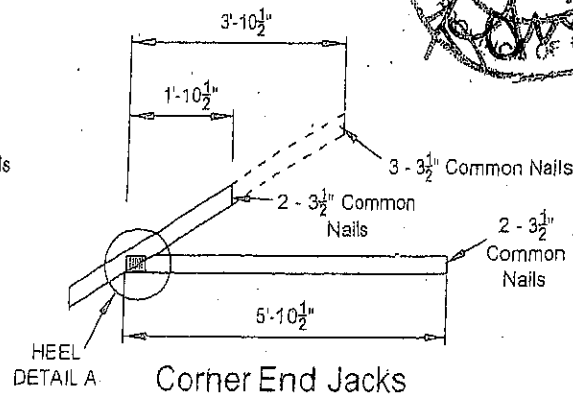
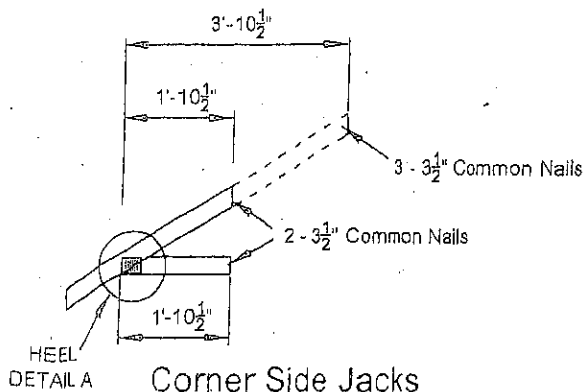
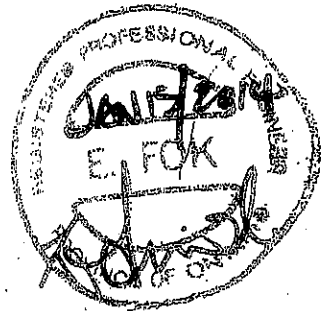
LUMBER SPECIFICATION

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)

CS-51008