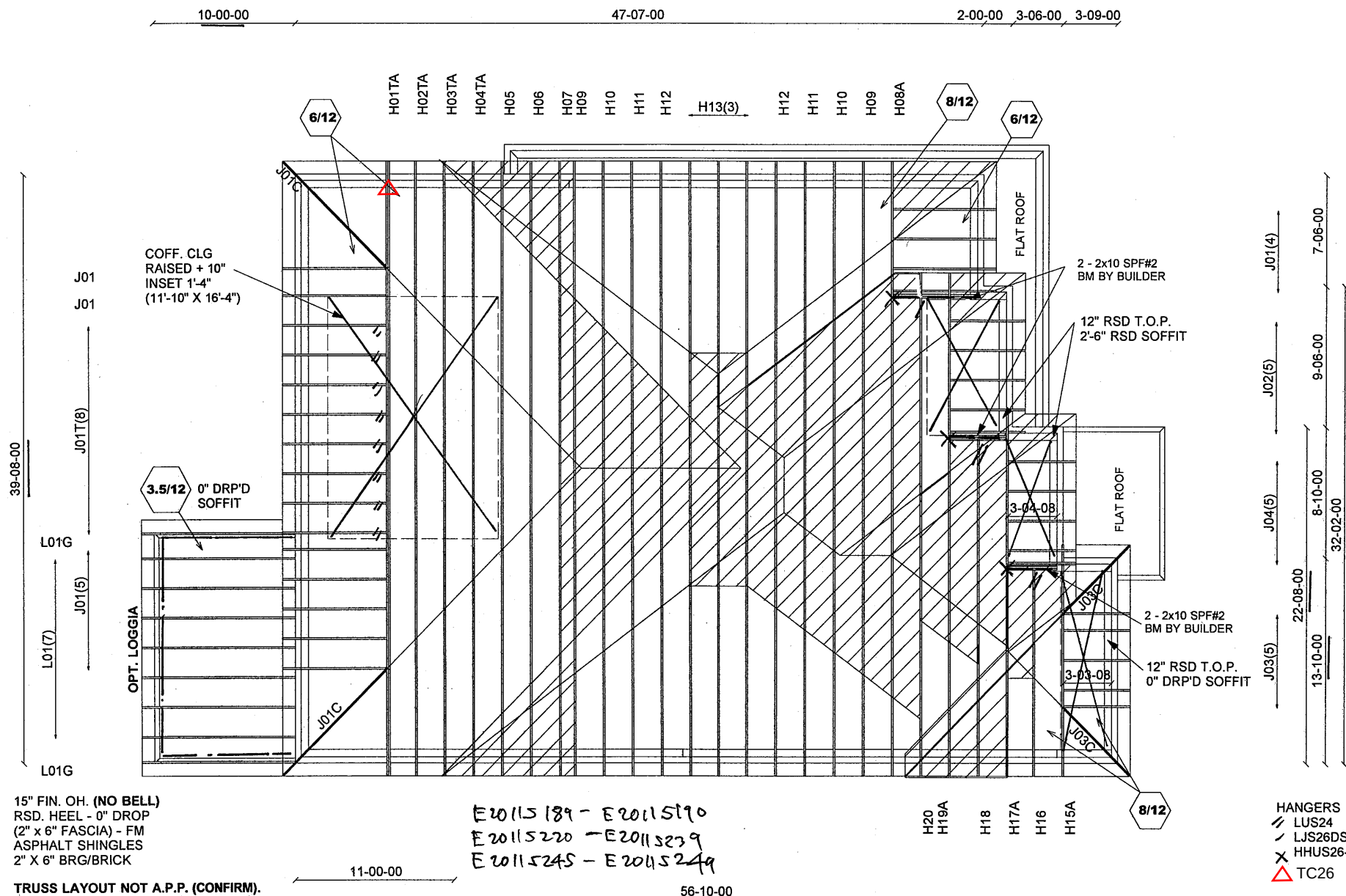




ALL CONVENTIONAL FRAMING TO CONFORM WITH PART 9 O.B.C. LATEST EDITION. ROOF RAFTERS THAT CROSS OVER TRUSSES TO BE 2X4 SPF #2 @ 24" O.C WITH A VERT. POST TO THE TRUSS UNDERNEATH AT EACH CROSS POINT. VERT. POSTS LONGER THAN 6' TO HAVE LATERAL BRACING SO THAT THE DISTANCE BETWEEN END POINTS & BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'

Mitek V. 8.2.0

CONVENTIONAL FRAMING BY OTHERS



Job Track: 45147

Layout ID: 324087

Plan Log: 106926

Builder / Location:

GOLD PARK HOMES / VAUGHAN

Project: PINE VALLEY

Date: 2020-09-24

Designer: emozes

Model / Elevation:

5009

/ C ALT 5 BED

02 OPT LOGGIA

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.

EWP DESIGN INC.

(905) 832-2250

FAX (905) 832-0286

RESPONSIBILITIES AND SPECIFICATIONS

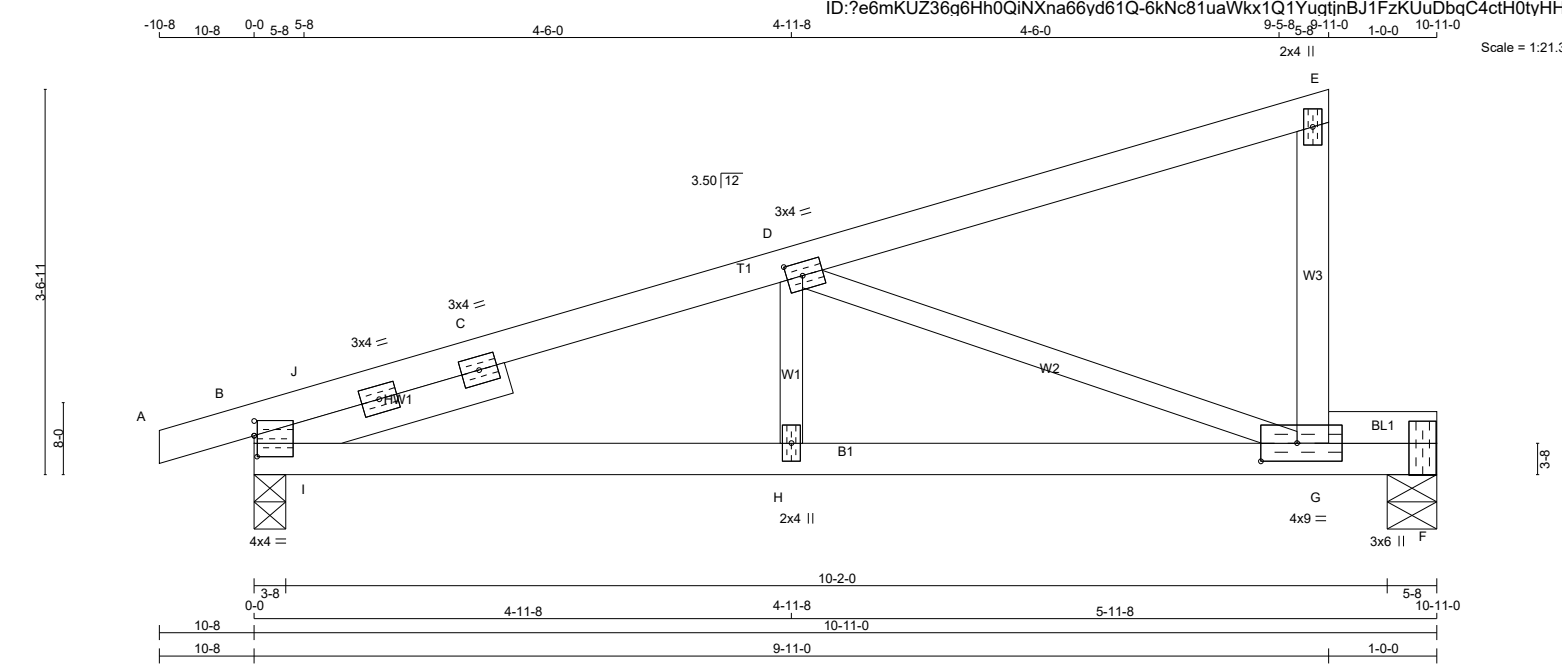
RESPONSIBILITIES

1. EWP DESIGN 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 each drawing meet or exceed the actual dead load imposed by the structure, the live load imposed by the intended use and the snow load imposed by local building code or authorities with jurisdictions.
3. All dimensions are to be verified by the owner, contractor, architect or other authorities with jurisdictions before truss fabrication.
4. EWP DESIGN INC. bears no responsibility for the erection of trusses. Persons erecting trusses are cautioned to seek professional advice regarding the temporary and permanent bracing for the system. Bracing shown on EWP DESIGN INC. drawing is specified for the truss as a component only and forms an integral part of the truss design.
5. It is the truss manufacturer's responsibility to ensure that trusses are manufactured in conformance with specifications of EWP DESIGN INC. as outlined below.

SPECIFICATIONS

1. Trusses designed by EWP DESIGN INC. conform 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, as indicated on the EWP DESIGN INC. drawings, and conform to the design procedures established by the Truss Plate Institute of Canada. Unit stresses used for truss designs are as per the edition of CSA-O86 shown on EWP DESIGN INC. drawings.
2. Lumber is to be the size, species and grade as specified on EWP DESIGN INC. drawings.
3. Moisture content of lumber shall not exceed 19% in service unless specified otherwise.
4. Metal connector plates shall be applied to both faces of truss at each joint and shall be positioned as specified.
5. Top chords of trusses are assumed to be continuously braced laterally by roof sheathing or by purlins at intervals not exceeding 12.5 times the thickness of top chord member.
6. Bottom chords shall be laterally braced at intervals not exceeding 3M (10') o.c., where rigid ceiling is not applied directly to the underside of chords.

THESE DRAWINGS CONSTITUTE THE PROPERTY OF EWP DESIGN INC., SHALL NOT BE REPRODUCED, PUBLISHED, OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY THE ALPA LUMBER GROUP, AND WILL BE RETRACTED BY EWP DESIGN INC. IF UTILIZED FOR ANY OTHER PURPOSE.



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - E	2x4	DRY	No.2
G - E	2x4	DRY	No.2
B - F	2x4	DRY	No.2
REINFORCING MEMBERS			
HW1	2x4	DRY	No.2
BEARING BLOCKS			
BL1	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMBMR1-I	MT20	4.0	4.0	2.25 0.25
B	RT-I	MT20	3.0	4.0	
B	RT-I	MT20	3.0	4.0	
B	TP+P	MT20	3.0	6.0	1.50
D	TMWW-t	MT20	3.0	4.0	1.50 1.75
E	TMV+P	MT20	2.0	4.0	
G	BMVWK-I	MT20	4.0	9.0	2.00 4.00
H	BMW+W	MT20	2.0	4.0	

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
B	594	0	594	0	0	3-8	1-8
F	452	0	452	0	0	5-8	1-8

UNFACTORED REACTIONS		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	422	266 / 0	0 / 0	0 / 0	0 / 0	157 / 0	0 / 0
F	324	189 / 0	0 / 0	0 / 0	0 / 0	135 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	-4 / 0	-78.0 -78.0	0.03 (1)	10.00	H-D	0 / 243	0.06 (4)
B-J	-684 / 0	-78.0 -78.0	0.01 (4)	6.25	D-G	-994 / 0	0.43 (1)
J-C	-735 / 0	-78.0 -78.0	0.15 (1)	6.25	I-J	0 / 250	0.00 (1)
C-D	-735 / 0	-78.0 -78.0	0.15 (1)	6.25	I-C	-509 / 0	0.06 (1)
D-E	-8 / 0	-78.0 -78.0	0.23 (1)	10.00			
G-E	-165 / 0	0.0 0.0	0.03 (1)	7.81			
B-I	0 / 507	-18.5 -18.5	0.11 (1)	10.00			
I-H	0 / 934	-18.5 -18.5	0.35 (1)	10.00			
H-G	0 / 934	-18.5 -18.5	0.75 (1)	10.00			
G-F	0 / 0	-18.5 -18.5	0.60 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 34.4 PSF

SPACING = 24.0 IN. C/C

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

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

(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 (0.36")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.13")
ALLOWABLE DEFL.(TL)= L/360 (0.36")
CALCULATED VERT. DEFL.(TL) = L/ 477 (0.27")

CSI: TC=0.23/1.00 (D-E:1) , BC=0.75/1.00 (G-H:1) , WB=0.43/1.00 (D-G:1) , SSI=0.35/1.00 (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)	(PLI)	(PLI)	
	MAX MIN	MAX MIN	MAX MIN	
MT20	650 371	1747 788	1987 1873	

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (D) (INPUT = 0.90)
JSI METAL= 0.32 (B) (INPUT = 1.00)

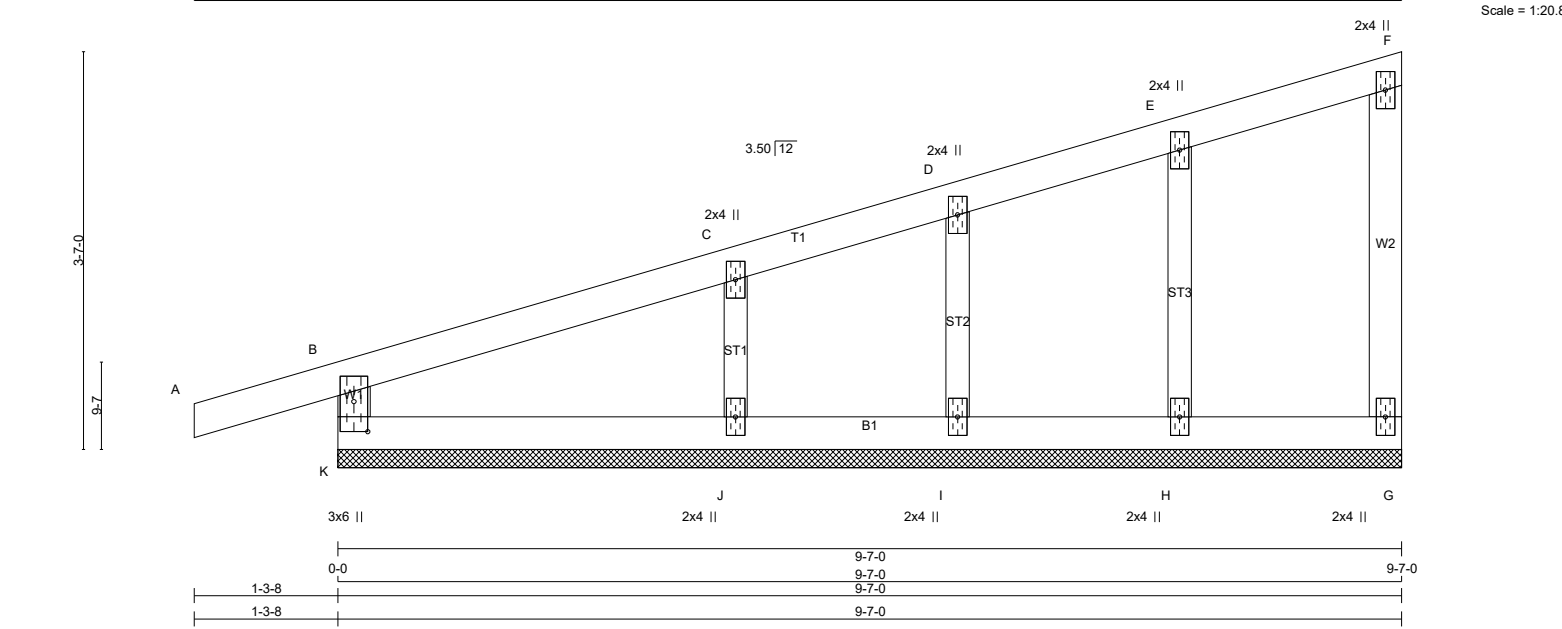
LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324082	L01G		1	TRUSS DESC. JT 45147	E20115190

Alpa Roof Truss, Maple

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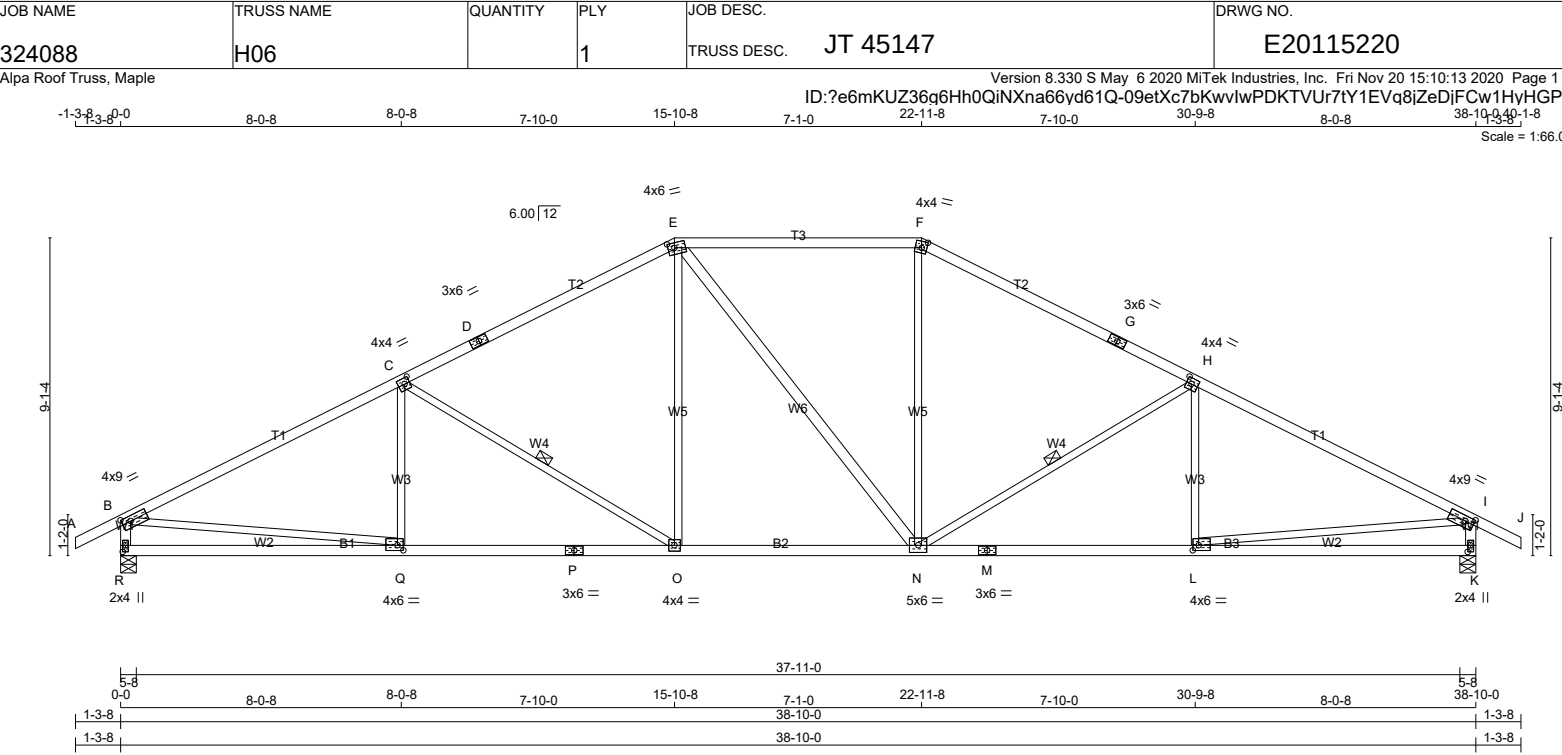
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LUMBER										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA									
N. L. G. A. RULES																				SPECIFIED LOADS:									
CHORDS SIZE LUMBER DESCR.																				TOP CH. LL = 21.0 PSF									
K - B 2x4 DRY No.2 SPF																				DL = 6.0 PSF									
A - F 2x4 DRY No.2 SPF																				BOT CH. LL = 0.0 PSF									
G - F 2x4 DRY No.2 SPF																				DL = 7.4 PSF									
K - G 2x4 DRY No.2 SPF																				TOTAL LOAD = 34.4 PSF									
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.																													
																				</									

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2





LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	1650F 1.5E	SPF
D - E	2x4	DRY	1650F 1.5E	SPF
E - F	2x4	DRY	2100F 1.8E	SPF
F - G	2x4	DRY	1650F 1.5E	SPF
G - J	2x4	DRY	1650F 1.5E	SPF
R - B	2x4	DRY	No.2	SPF
K - I	2x4	DRY	No.2	SPF
R - P	2x4	DRY	No.2	SPF
P - M	2x4	DRY	No.2	SPF
M - K	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT E - N	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	9.0	1.75	3.00
C	TMWW-t	MT20	4.0	4.0	2.00	1.75
D	TS-t	MT20	3.0	6.0		
E	TTWW-m	MT20	4.0	6.0	1.75	2.25
F	TTW-m	MT20	4.0	4.0	2.25	1.75
G	TS-t	MT20	3.0	6.0		
H	TMWW-t	MT20	4.0	4.0	2.00	1.75
I	TMVW-t	MT20	4.0	9.0	1.75	3.00
K	BMV1+p	MT20	2.0	4.0	2.25	1.00
L	BMWW-t	MT20	4.0	6.0	1.75	2.00
M	BS-t	MT20	3.0	6.0		
N	BMWWW-t	MT20	5.0	6.0		
O	BMWW-t	MT20	4.0	4.0		
P	BS-t	MT20	3.0	6.0		
Q	BMWW-t	MT20	4.0	6.0	1.75	2.00
R	BMV1+p	MT20	2.0	4.0	2.25	1.00

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



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

FACTORED GROSS REACTION			MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
R	1979	0	1979	0	0	5-8	2-15
K	1979	0	1979	0	0	5-8	2-15

UNFACTORED REACTIONS							
	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1409	872 / 0	0 / 0	0 / 0	0 / 0	537 / 0	0 / 0
K	1409	872 / 0	0 / 0	0 / 0	0 / 0	537 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.93 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING
TOTAL LOAD CASES: (4)

C H O R D S				W E B S				
MAX. FACTORED		FACTORED		MAX. FACTORED				
MEMB.	FORCE	VERT. LOAD	LC1 MAX	MAX.	MEMB.	FORCE	MAX	
	(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	CSI (LC)	
FR-TO		FROM	TO	LENGTH	FR-TO			
A-B	0 / 24	-78.0	-78.0	0.08 (1)	10.00	Q-C	-112 / 81	0.04 (1)
B-C	-2864 / 0	-78.0	-78.0	0.73 (1)	3.93	C-O	-693 / 0	0.42 (1)
C-D	-2271 / 0	-78.0	-78.0	0.64 (1)	4.37	O-E	0 / 496	0.11 (1)
D-E	-2271 / 0	-78.0	-78.0	0.64 (1)	4.37	E-N	0 / 0	0.00 (1)
E-F	-2007 / 0	-78.0	-78.0	0.36 (1)	5.30	N-F	0 / 497	0.11 (1)
F-G	-2272 / 0	-78.0	-78.0	0.64 (1)	4.37	N-H	-693 / 0	0.42 (1)
G-H	-2272 / 0	-78.0	-78.0	0.64 (1)	4.37	L-H	-113 / 81	0.05 (1)
H-I	-2864 / 0	-78.0	-78.0	0.73 (1)	3.93	B-Q	0 / 2606	0.59 (1)
I-J	0 / 24	-78.0	-78.0	0.08 (1)	10.00	L-I	0 / 2606	0.59 (1)
R-B	-1918 / 0	0.0	0.0	0.19 (1)	6.07			
K-I	-1917 / 0	0.0	0.0	0.19 (1)	6.07			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	21.0	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	34.4	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 2015

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

(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 (1.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.14")
ALLOWABLE DEFL.(TL)= L/360 (1.29")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.31")

CSI: TC=0.73/1.00 (B-C:1), BC=0.56/1.00 (O-Q:1), WB=0.59/1.00 (B-Q:1), SI=0.27/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

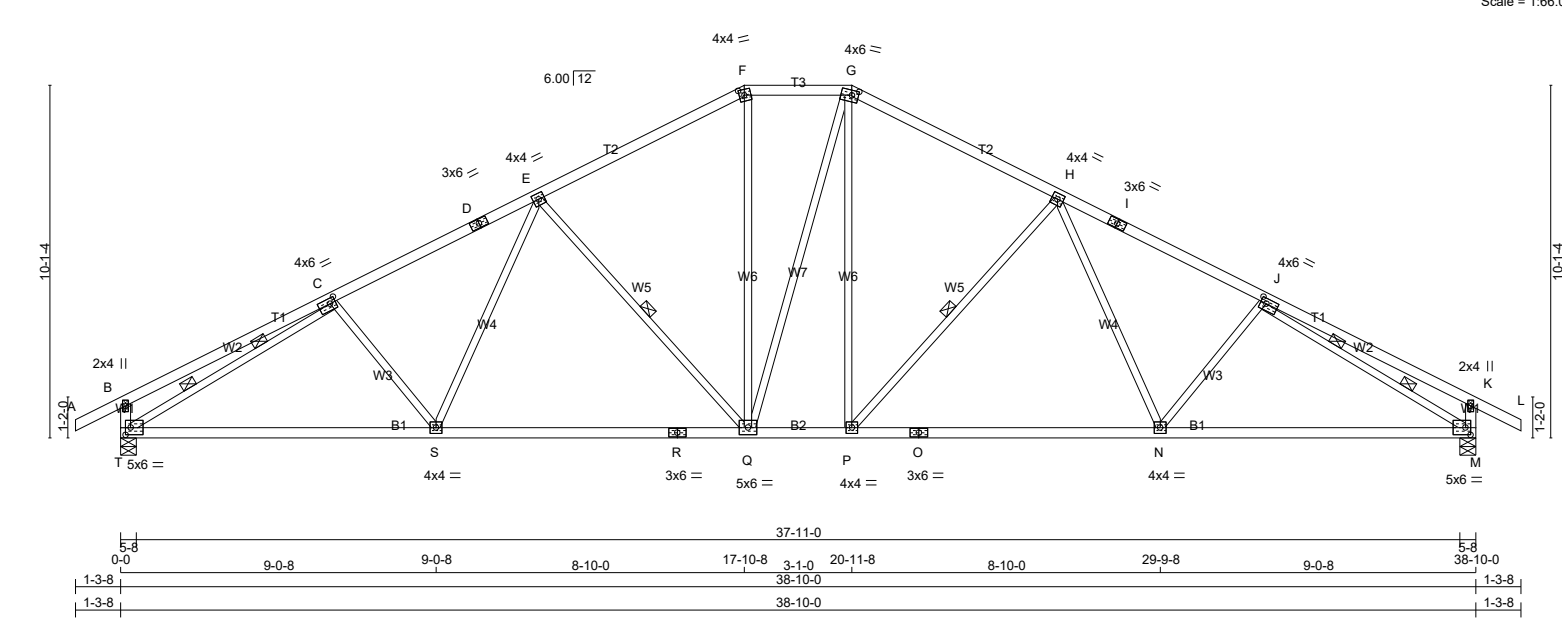
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (Q) (INPUT = 0.90)
JSI METAL= 0.86 (P) (INPUT = 1.00)



LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER								DESIGN CRITERIA				[M][F]
N. L. G. A. RULES				BEARINGS								SPECIFIED LOADS:				
CHORDS	SIZE	LUMBER	DESCR.	FACTORED			MAXIMUM FACTORED		INPUT	REQRD	TOP	CH.	LL	DL	PSF	
A - D	2x4	DRY	No.2	SPF	GROSS REACTION			GROSS REACTION		BRG	BRG					
D - F	2x4	DRY	No.2	SPF	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX				
F - G	2x4	DRY	No.2	SPF	T	1979	0	1979	0	0	5-8	2-2	BOT	CH.	LL = 6.0 PSF	
G - I	2x4	DRY	No.2	SPF	M	1979	0	1979	0	0	5-8	2-2		DL = 0.0 PSF		
I - L	2x4	DRY	No.2	SPF										DL = 7.4 PSF		
T - B	2x4	DRY	No.2	SPF									TOTAL	LOAD	= 34.4 PSF	
M - K	2x4	DRY	No.2	SPF									SPACING = 24.0 IN. C/C			
T - R	2x4	DRY	No.2	SPF	UNFACTORED REACTIONS								LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM			
R - O	2x4	DRY	No.2	SPF	1ST LCASE MAX./MIN. COMPONENT REACTIONS											
O - M	2x4	DRY	No.2	SPF	JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL				
					T	1409	872 / 0	0 / 0	0 / 0	0 / 0	537 / 0	0 / 0				
					M	1409	872 / 0	0 / 0	0 / 0	0 / 0	537 / 0	0 / 0				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMV+p	MT20	2.0	4.0	
C	TMWW-t	MT20	4.0	6.0	1.75 2.00
D	TS-t	MT20	3.0	6.0	
E	TMWW-t	MT20	4.0	4.0	
F	TTW-m	MT20	4.0	4.0	2.00 1.75
G	TTWW-m	MT20	4.0	6.0	1.75 2.25
H	TMWW-t	MT20	4.0	4.0	
I	TS-t	MT20	3.0	6.0	
J	TMWW-t	MT20	4.0	6.0	1.75 2.00
K	TMV+p	MT20	2.0	4.0	
M	BMVW1-t	MT20	5.0	6.0	2.50 1.75
N, P, S					
N	BMWW-t	MT20	4.0	4.0	
O	BS-t	MT20	3.0	6.0	
Q	BMWWW-t	MT20	5.0	6.0	
R	BS-t	MT20	3.0	6.0	
T	BMVW1-t	MT20	5.0	6.0	2.50 1.75

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



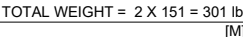
JT	0 / 2299	-18.5	-18.5	0.60 (4)	10.00
R-Q	0 / 2299	-18.5	-18.5	0.60 (4)	10.00
Q-P	0 / 1850	-18.5	-18.5	0.41 (1)	10.00
P-O	0 / 2299	-18.5	-18.5	0.60 (4)	10.00
O-N	0 / 2299	-18.5	-18.5	0.60 (4)	10.00
N-M	0 / 2510	-18.5	-18.5	0.62 (4)	10.00

Scale = 1:65.2



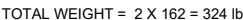
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Version 8.330 S May 6 2020 MiTek Industries, Inc. Fri Nov 20 15:10:17 2020 Page 1
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JSI GRIP= 0.89 (R) (INPUT = 0.90)
JSI METAL= 0.80 (P) (INPUT = 1.00)

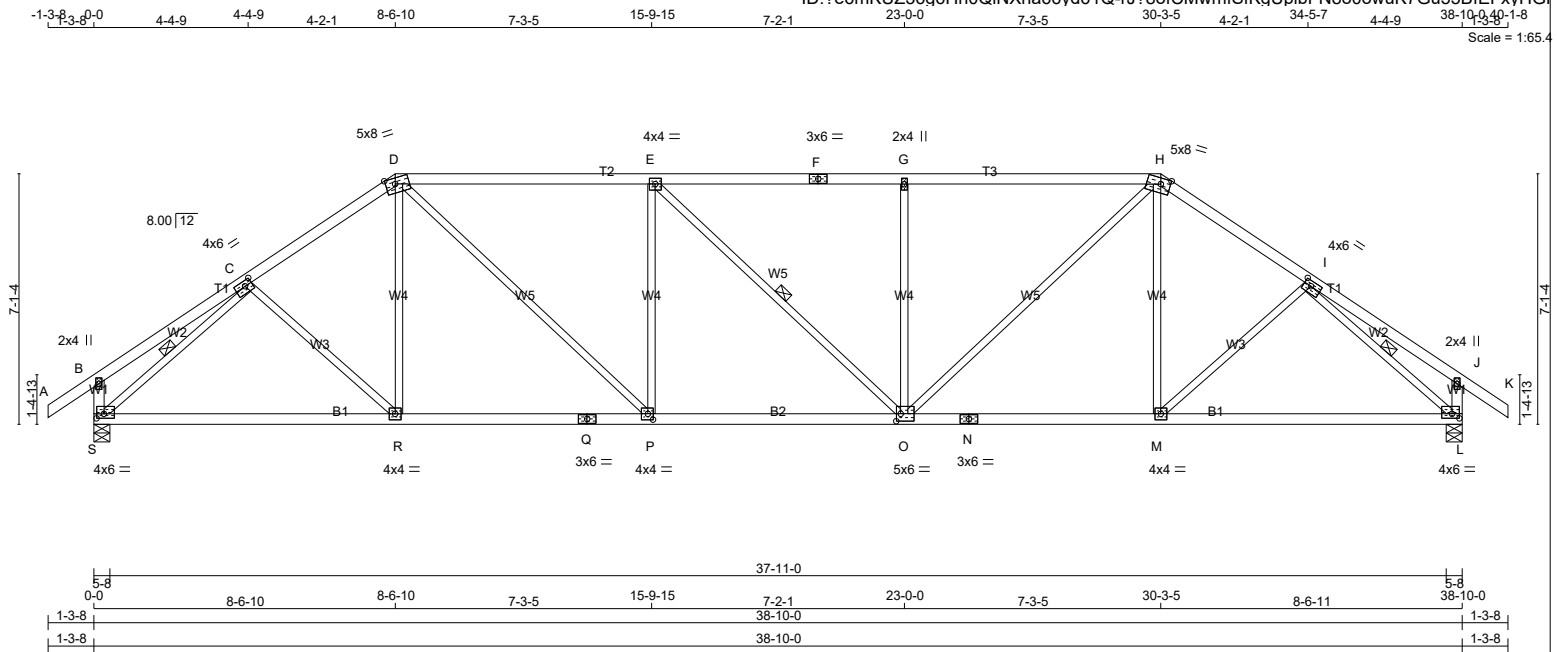
Version 8.330 S May 6 2020 MiTek Industries, Inc. Fri Nov 20 15:10:18 2020 Page 1
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J	T	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
C	MTWW-t	MT20	4.0	6.0	1.75	2.25
D	TTWW-m	MT20	5.0	8.0	1.75	3.25
E	MTWW-t	MT20	4.0	4.0		
F	TMW+w	MT20	2.0	4.0		
G	TS-t	MT20	3.0	6.0		
H	MTWW-t	MT20	4.0	4.0		
I	TTWW-m	MT20	5.0	8.0	1.75	3.25
J	MTWW-t	MT20	4.0	6.0	1.75	2.25
K	TMV+p	MT20	2.0	4.0		
L	BMVW1-t	MT20	4.0	6.0	1.50	2.75
M	BMWW-t	MT20	4.0	4.0		
N	BS-t	MT20	3.0	6.0		
O	BMWW-t	MT20	4.0	4.0	1.75	1.50
P	BMWWW-t	MT20	5.0	6.0		
Q	BS-t	MT20	3.0	6.0		
R	BMWW-t	MT20	4.0	4.0	1.75	1.50
S	BMWW-t	MT20	4.0	4.0		
T	BMVW1-t	MT20	4.0	6.0	1.50	2.75

IV- VI	0 / 1754	-10.5	-10.5	0.40 (1)	10.00
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JSI GRIP= 0.90 (U) (INPUT = 0.90)
JSI METAL= 0.92 (R) (INPUT = 1.00)



TOTAL WEIGHT = 2 X 161 = 322 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 - H	2x4	DRY	No.2	SPF
H - K	2x4	DRY	No.2	SPF
S - B	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF
S - Q	2x4	DRY	No.2	SPF
Q - N	2x4	DRY	No.2	SPF
N - L	2x4	DRY	No.2	SPF

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

PLATES (table is in inches)

J	T	TYPE	PLATES	W	LEN	Y	X
B	TMV+p		MT20	2.0	4.0		
C	TMWW-t		MT20	4.0	6.0	1.75	2.50
D	TTWW-m		MT20	5.0	8.0	2.00	3.25
E	TMWW-t		MT20	4.0	4.0		
F	TS-t		MT20	3.0	6.0		
G	TMW+w		MT20	2.0	4.0		
H	TTWW-m		MT20	5.0	8.0	2.00	3.25
I	TMWW-t		MT20	4.0	6.0	1.75	2.50
J	TMV+p		MT20	2.0	4.0		
L	BMWV1-t		MT20	4.0	6.0	1.50	2.50
M	BMWW-t		MT20	4.0	4.0		
N	BS-t		MT20	3.0	6.0		
O	BMWWW-t		MT20	5.0	6.0	2.50	1.50
P	BMWW-t		MT20	4.0	4.0	2.00	1.75
Q	BS-t		MT20	3.0	6.0		
R	BMWW-t		MT20	4.0	4.0		
S	BMWV1-t		MT20	4.0	6.0	1.50	2.50

LATERAL BRACE(S) SHOWN SHALL BE
2X4 SPF#2



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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
S	1980	0	1980	0	0	5-8	2-2
L	1980	0	1980	0	0	5-8	2-2

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
S	1410	873 / 0	0 / 0	0 / 0	0 / 0	537 / 0	0 / 0
L	1410	873 / 0	0 / 0	0 / 0	0 / 0	537 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.38 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

C H O R D S				W E B S				
MAX. FACTORED		FACTORED		MAX. FACTORED				
MEMB.	FORCE	VERT. LOAD	LC1 MAX	MAX.	MEMB.	FORCE	MAX	
	(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	CSI (LC)	
FR-TO		FROM TO		LENGTH	FR-TO			
A-B	0 / 30	-78.0	-78.0	0.10 (1)	10.00	C-R	0 / 73	0.03 (4)
B-C	0 / 20	-78.0	-78.0	0.21 (1)	10.00	R-D	0 / 142	0.05 (4)
C-D	-2253 / 0	-78.0	-78.0	0.31 (1)	4.28	D-P	0 / 1079	0.24 (1)
D-E	-2646 / 0	-78.0	-78.0	0.92 (1)	3.38	P-E	-612 / 0	0.54 (1)
E-F	-2645 / 0	-78.0	-78.0	0.90 (1)	3.38	E-O	-1 / 0	0.00 (1)
F-G	-2645 / 0	-78.0	-78.0	0.90 (1)	3.38	O-G	-612 / 0	0.53 (1)
G-H	-2645 / 0	-78.0	-78.0	0.91 (1)	3.39	O-H	0 / 1077	0.24 (1)
H-I	-2253 / 0	-78.0	-78.0	0.31 (1)	4.28	M-H	0 / 143	0.05 (4)
I-J	0 / 20	-78.0	-78.0	0.21 (1)	10.00	M-I	0 / 73	0.03 (4)
J-K	0 / 30	-78.0	-78.0	0.10 (1)	10.00	S-C	-2477 / 0	0.60 (1)
S-B	-238 / 0	0.0	0.0	0.02 (1)	7.81	I-L	-2477 / 0	0.60 (1)
L-J	-238 / 0	0.0	0.0	0.02 (1)	7.81			

F-C	0 / 2040	-18.5	-18.5	0.51 (1)	10.00
O-N	0 / 1858	-18.5	-18.5	0.49 (4)	10.00
N-M	0 / 1858	-18.5	-18.5	0.49 (4)	10.00
M-L	0 / 1823	-18.5	-18.5	0.47 (4)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP	CH.	LL =	21.0	PSF
		DL =	6.0	PSF
BOT	CH.	LL =	0.0	PSF
		DL =	7.4	PSF
TOTAL LOAD		=	34.4	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 2015

THIS DESIGN COMPLIES WITH:

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

(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 (1.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.15")
ALLOWABLE DEFL.(TL)= L/360 (1.29")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.32")

CSI: TC=0.92/1.00 (D-E:1), BC=0.51/1.00 (O-P:1),
WB=0.60/1.00 (I-L:1), SSI=0.26/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (I) (INPUT = 0.90)
JSI METAL= 0.58 (I) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324088	H12		1	TRUSS DESC. JT 45147	E20115226

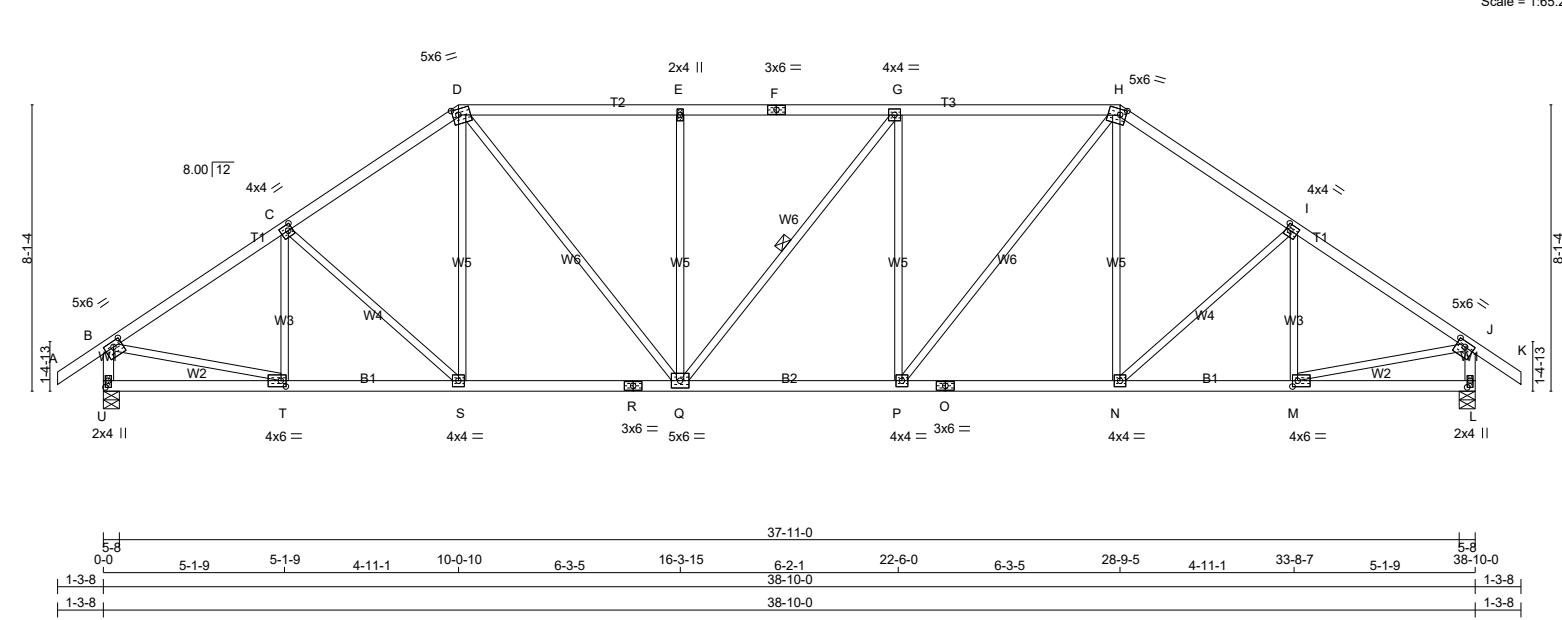
Alpa Roof Truss, Maple

Version 8.330 S May 6 2020 MiTek Industries, Inc. Fri Nov 20 15:10:20 2020 Page 1

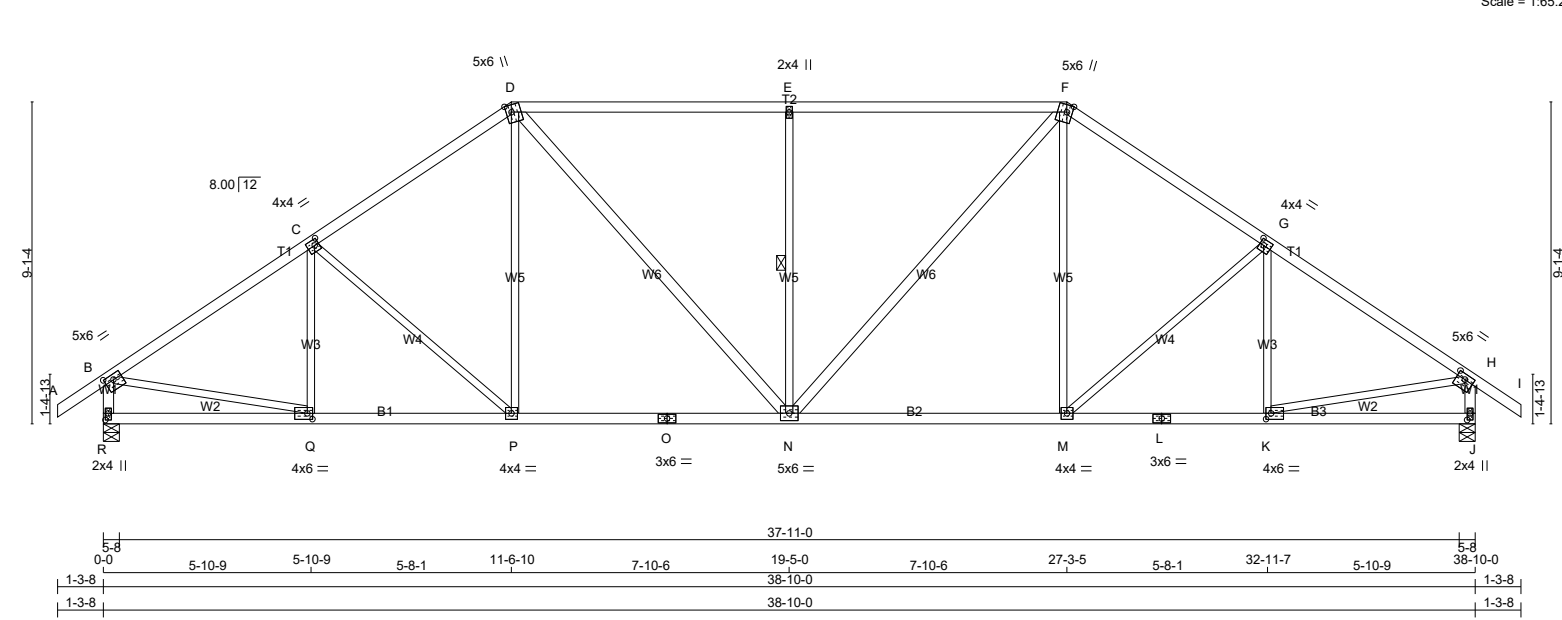
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38-10-0-18

Scale = 1:65.2



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - D 2x4 DRY No.2 SPF D - F 2x4 DRY No.2 SPF F - H 2x4 DRY No.2 SPF H - K 2x4 DRY No.2 SPF U - B 2x4 DRY No.2 SPF L - J 2x4 DRY No.2 SPF U - R 2x4 DRY No.2 SPF R - O 2x4 DRY No.2 SPF O - L 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.							DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><th></th><th>FACTORED GROSS REACTION</th><th>MAXIMUM FACTORED GROSS REACTION</th><th>INPUT BRG</th><th>REQRD BRG</th></tr><tr><th>JT</th><th>VERT</th><th>HORZ</th><th>DOWN</th><th>HORZ</th><th>UPLIFT</th><th>IN-SX</th><th>IN-SX</th></tr><tr><td>U</td><td>1980</td><td>0</td><td>1980</td><td>0</td><td>0</td><td>5-8</td><td>2-15</td></tr><tr><td>L</td><td>1980</td><td>0</td><td>1980</td><td>0</td><td>0</td><td>5-8</td><td>2-15</td></tr></table> UNFACTORED REACTIONS <table><tr><th>1ST LCASE</th><th colspan="7">MAX./MIN. COMPONENT REACTIONS</th></tr><tr><th>JT</th><th>COMBINED</th><th>SNOW</th><th>LIVE</th><th>PERM.LIVE</th><th>WIND</th><th>DEAD</th><th>SOIL</th></tr><tr><td>U</td><td>1410</td><td>873 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>537 / 0</td><td>0 / 0</td></tr><tr><td>L</td><td>1410</td><td>873 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>537 / 0</td><td>0 / 0</td></tr></table> BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) U, 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. 1 LATERAL BRACE(S) AT 1/2 LENGTH OF G-Q. 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) <table><tr><th colspan="4">CHORDS</th><th colspan="4">WEBS</th></tr><tr><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>FACTORED VERT. LOAD (PLF)</th><th>LC1 MAX. CSI (LC)</th><th>MAX. UNBRACED LENGTH</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>MAX. UNBRACED LENGTH</th></tr><tr><td>FR-TO</td><td></td><td>FROM</td><td>TO</td><td></td><td>FR-TO</td><td></td><td></td></tr><tr><td>A-B</td><td>0 / 30</td><td>-78.0</td><td>-78.0 0.10 (1)</td><td>10.00</td><td>T-C</td><td>-307 / 0</td><td>0.11 (1)</td></tr><tr><td>B-C</td><td>-2271 / 0</td><td>-78.0</td><td>-78.0 0.34 (1)</td><td>4.26</td><td>C-S</td><td>-156 / 0</td><td>0.13 (1)</td></tr><tr><td>C-D</td><td>-2186 / 0</td><td>-78.0</td><td>-78.0 0.32 (1)</td><td>4.33</td><td>S-D</td><td>0 / 212</td><td>0.05 (4)</td></tr><tr><td>D-E</td><td>-2312 / 0</td><td>-78.0</td><td>-78.0 0.45 (1)</td><td>4.08</td><td>D-Q</td><td>0 / 822</td><td>0.18 (1)</td></tr><tr><td>E-F</td><td>-2313 / 0</td><td>-78.0</td><td>-78.0 0.41 (1)</td><td>4.14</td><td>Q-E</td><td>-526 / 0</td><td>0.67 (1)</td></tr><tr><td>F-G</td><td>-2313 / 0</td><td>-78.0</td><td>-78.0 0.41 (1)</td><td>4.14</td><td>Q-G</td><td>-2 / 0</td><td>0.00 (1)</td></tr><tr><td>G-H</td><td>-2314 / 0</td><td>-78.0</td><td>-78.0 0.45 (1)</td><td>4.08</td><td>P-G</td><td>-526 / 0</td><td>0.67 (1)</td></tr><tr><td>H-I</td><td>-2185 / 0</td><td>-78.0</td><td>-78.0 0.32 (1)</td><td>4.33</td><td>P-H</td><td>0 / 824</td><td>0.19 (1)</td></tr><tr><td>I-J</td><td>-2271 / 0</td><td>-78.0</td><td>-78.0 0.34 (1)</td><td>4.26</td><td>N-H</td><td>0 / 211</td><td>0.05 (4)</td></tr><tr><td>J-K</td><td>0 / 30</td><td>-78.0</td><td>-78.0 0.10 (1)</td><td>10.00</td><td>N-I</td><td>-156 / 0</td><td>0.13 (1)</td></tr><tr><td>U-B</td><td>-1938 / 0</td><td>0.0</td><td>0.0 0.20 (1)</td><td>6.04</td><td>M-I</td><td>-307 / 0</td><td>0.11 (1)</td></tr><tr><td>L-I</td><td>-1938 / 0</td><td>0.0</td><td>0.0 0.20 (1)</td><td>6.04</td><td>R-T</td><td>0 / 1952</td><td>0.44 (1)</td></tr></table> <table><tr><td>R-Q</td><td>0 / 1797</td><td>-18.5</td><td>-18.5 0.36 (1)</td><td>10.00</td></tr><tr><td>Q-P</td><td>0 / 2314</td><td>-18.5</td><td>-18.5 0.45 (1)</td><td>10.00</td></tr><tr><td>P-O</td><td>0 / 1797</td><td>-18.5</td><td>-18.5 0.36 (1)</td><td>10.00</td></tr><tr><td>O-N</td><td>0 / 1797</td><td>-18.5</td><td>-18.5 0.36 (1)</td><td>10.00</td></tr><tr><td>N-M</td><td>0 / 1910</td><td>-18.5</td><td>-18.5 0.38 (1)</td><td>10.00</td></tr><tr><td>M-L</td><td>0 / 0</td><td>-18.5</td><td>-18.5 0.10 (4)</td><td>10.00</td></tr></table>								FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	U	1980	0	1980	0	0	5-8	2-15	L	1980	0	1980	0	0	5-8	2-15	1ST LCASE	MAX./MIN. COMPONENT REACTIONS							JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	U	1410	873 / 0	0 / 0	0 / 0	0 / 0	537 / 0	0 / 0	L	1410	873 / 0	0 / 0	0 / 0	0 / 0	537 / 0	0 / 0	CHORDS				WEBS				MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	FR-TO		FROM	TO		FR-TO			A-B	0 / 30	-78.0	-78.0 0.10 (1)	10.00	T-C	-307 / 0	0.11 (1)	B-C	-2271 / 0	-78.0	-78.0 0.34 (1)	4.26	C-S	-156 / 0	0.13 (1)	C-D	-2186 / 0	-78.0	-78.0 0.32 (1)	4.33	S-D	0 / 212	0.05 (4)	D-E	-2312 / 0	-78.0	-78.0 0.45 (1)	4.08	D-Q	0 / 822	0.18 (1)	E-F	-2313 / 0	-78.0	-78.0 0.41 (1)	4.14	Q-E	-526 / 0	0.67 (1)	F-G	-2313 / 0	-78.0	-78.0 0.41 (1)	4.14	Q-G	-2 / 0	0.00 (1)	G-H	-2314 / 0	-78.0	-78.0 0.45 (1)	4.08	P-G	-526 / 0	0.67 (1)	H-I	-2185 / 0	-78.0	-78.0 0.32 (1)	4.33	P-H	0 / 824	0.19 (1)	I-J	-2271 / 0	-78.0	-78.0 0.34 (1)	4.26	N-H	0 / 211	0.05 (4)	J-K	0 / 30	-78.0	-78.0 0.10 (1)	10.00	N-I	-156 / 0	0.13 (1)	U-B	-1938 / 0	0.0	0.0 0.20 (1)	6.04	M-I	-307 / 0	0.11 (1)	L-I	-1938 / 0	0.0	0.0 0.20 (1)	6.04	R-T	0 / 1952	0.44 (1)	R-Q	0 / 1797	-18.5	-18.5 0.36 (1)	10.00	Q-P	0 / 2314	-18.5	-18.5 0.45 (1)	10.00	P-O	0 / 1797	-18.5	-18.5 0.36 (1)	10.00	O-N	0 / 1797	-18.5	-18.5 0.36 (1)	10.00	N-M	0 / 1910	-18.5	-18.5 0.38 (1)	10.00	M-L	0 / 0	-18.5	-18.5 0.10 (4)	10.00	DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 21.0 PSF DL = 6.0 PSF BOT CH. LL = 0.0 PSF DL = 7.4 PSF TOTAL LOAD = 34.4 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 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF CBC 2018, ABC 2019 - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 (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 (1.29") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.12") ALLOWABLE DEFL.(TL)= L/360 (1.29") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.24") CSI: TC=0.45/1.00 (G-H:1), BC=0.45/1.00 (P-Q:1), WB=0.67/1.00 (G-P:1), SSI=0.23/1.00 (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 650 371 1747 788 1987 1873 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.89 (M) (INPUT = 0.90) JSI METAL= 0.58 (J) (INPUT = 1.00)						
	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG																																																																																																																																																																																																																																			
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX																																																																																																																																																																																																																																
U	1980	0	1980	0	0	5-8	2-15																																																																																																																																																																																																																																
L	1980	0	1980	0	0	5-8	2-15																																																																																																																																																																																																																																
1ST LCASE	MAX./MIN. COMPONENT REACTIONS																																																																																																																																																																																																																																						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL																																																																																																																																																																																																																																
U	1410	873 / 0	0 / 0	0 / 0	0 / 0	537 / 0	0 / 0																																																																																																																																																																																																																																
L	1410	873 / 0	0 / 0	0 / 0	0 / 0	537 / 0	0 / 0																																																																																																																																																																																																																																
CHORDS				WEBS																																																																																																																																																																																																																																			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH																																																																																																																																																																																																																																
FR-TO		FROM	TO		FR-TO																																																																																																																																																																																																																																		
A-B	0 / 30	-78.0	-78.0 0.10 (1)	10.00	T-C	-307 / 0	0.11 (1)																																																																																																																																																																																																																																
B-C	-2271 / 0	-78.0	-78.0 0.34 (1)	4.26	C-S	-156 / 0	0.13 (1)																																																																																																																																																																																																																																
C-D	-2186 / 0	-78.0	-78.0 0.32 (1)	4.33	S-D	0 / 212	0.05 (4)																																																																																																																																																																																																																																
D-E	-2312 / 0	-78.0	-78.0 0.45 (1)	4.08	D-Q	0 / 822	0.18 (1)																																																																																																																																																																																																																																
E-F	-2313 / 0	-78.0	-78.0 0.41 (1)	4.14	Q-E	-526 / 0	0.67 (1)																																																																																																																																																																																																																																
F-G	-2313 / 0	-78.0	-78.0 0.41 (1)	4.14	Q-G	-2 / 0	0.00 (1)																																																																																																																																																																																																																																
G-H	-2314 / 0	-78.0	-78.0 0.45 (1)	4.08	P-G	-526 / 0	0.67 (1)																																																																																																																																																																																																																																
H-I	-2185 / 0	-78.0	-78.0 0.32 (1)	4.33	P-H	0 / 824	0.19 (1)																																																																																																																																																																																																																																
I-J	-2271 / 0	-78.0	-78.0 0.34 (1)	4.26	N-H	0 / 211	0.05 (4)																																																																																																																																																																																																																																
J-K	0 / 30	-78.0	-78.0 0.10 (1)	10.00	N-I	-156 / 0	0.13 (1)																																																																																																																																																																																																																																
U-B	-1938 / 0	0.0	0.0 0.20 (1)	6.04	M-I	-307 / 0	0.11 (1)																																																																																																																																																																																																																																
L-I	-1938 / 0	0.0	0.0 0.20 (1)	6.04	R-T	0 / 1952	0.44 (1)																																																																																																																																																																																																																																
R-Q	0 / 1797	-18.5	-18.5 0.36 (1)	10.00																																																																																																																																																																																																																																			
Q-P	0 / 2314	-18.5	-18.5 0.45 (1)	10.00																																																																																																																																																																																																																																			
P-O	0 / 1797	-18.5	-18.5 0.36 (1)	10.00																																																																																																																																																																																																																																			
O-N	0 / 1797	-18.5	-18.5 0.36 (1)	10.00																																																																																																																																																																																																																																			
N-M	0 / 1910	-18.5	-18.5 0.38 (1)	10.00																																																																																																																																																																																																																																			
M-L	0 / 0	-18.5	-18.5 0.10 (4)	10.00																																																																																																																																																																																																																																			
PLATES (table is in inches) <table><tr><th>JT</th><th>TYPE</th><th>PLATES</th><th>W</th><th>LEN</th><th>Y</th><th>X</th></tr><tr><td>B</td><td>TMVW-t</td><td>MT20</td><td>5.0</td><td>6.0</td><td>1.75</td><td>3.00</td></tr><tr><td>C</td><td>TMWW-t</td><td>MT20</td><td>4.0</td><td>4.0</td><td>2.00</td><td>1.50</td></tr><tr><td>D</td><td>TTWW-m</td><td>MT20</td><td>5.0</td><td>6.0</td><td>2.00</td><td>2.00</td></tr><tr><td>E</td><td>TMW+w</td><td>MT20</td><td>2.0</td><td>4.0</td><td></td><td></td></tr><tr><td>F</td><td>TS-t</td><td>MT20</td><td>3.0</td><td>6.0</td><td></td><td></td></tr><tr><td>G</td><td>TMWW-t</td><td>MT20</td><td>4.0</td><td>4.0</td><td></td><td></td></tr><tr><td>H</td><td>TTWW-m</td><td>MT20</td><td>5.0</td><td>6.0</td><td>2.00</td><td>2.00</td></tr><tr><td>I</td><td>TMWW-t</td><td>MT20</td><td>4.0</td><td>4.0</td><td>2.00</td><td>1.50</td></tr><tr><td>J</td><td>TMVW-t</td><td>MT20</td><td>5.0</td><td>6.0</td><td>1.75</td><td>3.00</td></tr><tr><td>L</td><td>BMV1+p</td><td>MT20</td><td>2.0</td><td>4.0</td><td>2.25</td><td>1.00</td></tr><tr><td>M</td><td>BMWW-t</td><td>MT20</td><td>4.0</td><td>6.0</td><td>2.00</td><td>1.75</td></tr><tr><td>N, P, S</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>N</td><td>BMWW-t</td><td>MT20</td><td>4.0</td><td>4.0</td><td></td><td></td></tr><tr><td>O</td><td>BS-t</td><td>MT20</td><td>3.0</td><td>6.0</td><td></td><td></td></tr><tr><td>Q</td><td>QMWWWW-t</td><td>MT20</td><td>5.0</td><td>6.0</td><td></td><td></td></tr><tr><td>R</td><td>BS-t</td><td>MT20</td><td>3.0</td><td>6.0</td><td></td><td></td></tr><tr><td>T</td><td>BMWW-t</td><td>MT20</td><td>4.0</td><td>6.0</td><td>2.00</td><td>1.75</td></tr><tr><td>U</td><td>BMV1+p</td><td>MT20</td><td>2.0</td><td>4.0</td><td>2.25</td><td>1.00</td></tr></table> LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2							JT	TYPE	PLATES	W	LEN	Y	X	B	TMVW-t	MT20	5.0	6.0	1.75	3.00	C	TMWW-t	MT20	4.0	4.0	2.00	1.50	D	TTWW-m	MT20	5.0	6.0	2.00	2.00	E	TMW+w	MT20	2.0	4.0			F	TS-t	MT20	3.0	6.0			G	TMWW-t	MT20	4.0	4.0			H	TTWW-m	MT20	5.0	6.0	2.00	2.00	I	TMWW-t	MT20	4.0	4.0	2.00	1.50	J	TMVW-t	MT20	5.0	6.0	1.75	3.00	L	BMV1+p	MT20	2.0	4.0	2.25	1.00	M	BMWW-t	MT20	4.0	6.0	2.00	1.75	N, P, S							N	BMWW-t	MT20	4.0	4.0			O	BS-t	MT20	3.0	6.0			Q	QMWWWW-t	MT20	5.0	6.0			R	BS-t	MT20	3.0	6.0			T	BMWW-t	MT20	4.0	6.0	2.00	1.75	U	BMV1+p	MT20	2.0	4.0	2.25	1.00																																																																																												
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M	BMWW-t	MT20	4.0	6.0	2.00	1.75																																																																																																																																																																																																																																	
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LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - F	2x4	DRY No.2	SPF
F - I	2x4	DRY No.2	SPF
R - B	2x4	DRY No.2	SPF
J - H	2x4	DRY No.2	SPF
R - O	2x4	DRY No.2	SPF
O - L	2x4	DRY No.2	SPF
L - J	2x4	DRY No.2	SPF
ALL WEBS	2x3	DRY No.2	SPF
EXCEPT			
D - N	2x4	DRY No.2	SPF
N - F	2x4	DRY No.2	SPF
DRY: SEASONED LUMBER.			

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW-t	MT20	5.0	6.0 1.75 3.00
C	TMWW-t	MT20	4.0	4.0 2.00 1.50
D	TTWW+m	MT20	5.0	6.0 Edge 1.75
E	TMW+w	MT20	2.0	4.0
F	TTWW+m	MT20	5.0	6.0 Edge 1.75
G	TMWW-t	MT20	4.0	4.0 2.00 1.50
H	TMVW-t	MT20	5.0	6.0 1.75 3.00
J	BMV1+p	MT20	2.0	4.0 2.25 1.00
K	BMWW-t	MT20	4.0	6.0 2.00 1.75
L	BS-t	MT20	3.0	6.0
M	BMWW-t	MT20	4.0	4.0
N	BMWWW-t	MT20	5.0	6.0
O	BS-t	MT20	3.0	6.0
P	BMWW-t	MT20	4.0	4.0
Q	BMWW-t	MT20	4.0	6.0 2.00 1.75
R	BMV1+p	MT20	2.0	4.0 2.25 1.00
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.				

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT HORZ	DOWN HORZ	UP	IN-SX	IN-SX
R	1980 0	1980 0	0	5-8	2-15
J	1980 0	1980 0	0	5-8	2-15

UNFACTORED REACTIONS							
	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1410	873 / 0	0 / 0	0 / 0	0 / 0	537 / 0	0 / 0
J	1410	873 / 0	0 / 0	0 / 0	0 / 0	537 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.70 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD LC1 (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 30	-78.0	-78.0 0.10 (1)	10.00	Q-C	-246 / 0	0.10 (1)
B-C	-2302 / 0	-78.0	-78.0 0.45 (1)	4.11	C-P	-273 / 0	0.32 (1)
C-D	-2116 / 0	-78.0	-78.0 0.42 (1)	4.28	P-D	0 / 306	0.07 (4)
D-E	-2141 / 0	-78.0	-78.0 0.77 (1)	3.70	D-N	0 / 607	0.10 (1)
E-F	-2141 / 0	-78.0	-78.0 0.77 (1)	3.70	N-E	-755 / 0	0.41 (1)
F-G	-2116 / 0	-78.0	-78.0 0.42 (1)	4.28	N-F	0 / 607	0.10 (1)
G-H	-2302 / 0	-78.0	-78.0 0.45 (1)	4.11	M-F	0 / 306	0.07 (4)
H-I	0 / 30	-78.0	-78.0 0.10 (1)	10.00	M-G	-273 / 0	0.32 (1)
R-B	-1933 / 0	0.0	0.0 0.20 (1)	6.05	K-G	-246 / 0	0.10 (1)
J-H	-1933 / 0	0.0	0.0 0.20 (1)	6.05	B-Q	0 / 1972	0.44 (1)
					K-H	0 / 1972	0.44 (1)

R-O	0 / 0	-18.5	-18.5 0.13 (4)	10.00
W-L	0 / 1940	-10.3	-10.3 0.41 (1)	10.00
L-K	0 / 1940	-18.5	-18.5 0.41 (1)	10.00
K-J	0 / 0	-18.5	-18.5 0.13 (4)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:			
TOP CH.	LL	=	21.0 PSF
	DL	=	6.0 PSF
BOT CH.	LL	=	0.0 PSF
	DL	=	7.4 PSF
TOTAL LOAD = 34.4 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 2015

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

(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 (1.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (1.29")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.24")

CSI: TC=0.77/1.00 (E-F:1), BC=0.41/1.00 (M-N:1), WB=0.44/1.00 (H-K:1), SSI=0.30/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

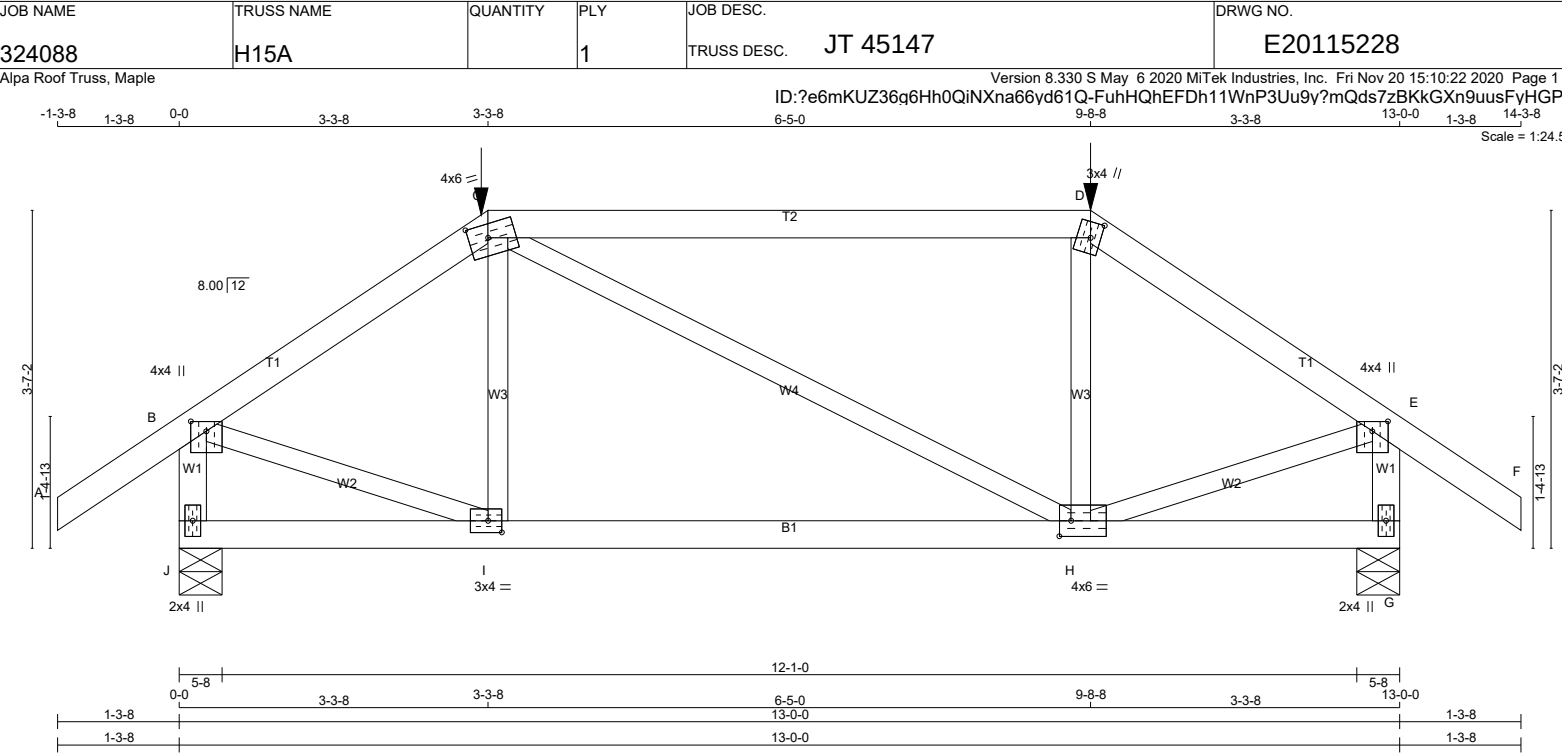
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (K) (INPUT = 0.90)
JSI METAL= 0.63 (O) (INPUT = 1.00)



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
C - D	2x4	DRY 2100F 1.8E	SPF
D - F	2x4	DRY No.2	SPF
J - B	2x4	DRY No.2	SPF
G - E	2x4	DRY No.2	SPF
J - G	2x4	DRY No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF

EXCEPT

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	4.0	4.0	1.25	2.00
C TTWW-m	MT20	4.0	6.0	1.75	2.50
D TTWW+m	MT20	3.0	4.0	2.00	1.25
E TMVW+p	MT20	4.0	4.0	1.25	2.00
G BMV1+p	MT20	2.0	4.0		
H BMWWW-t	MT20	4.0	6.0	2.00	1.50
I BMWWW-t	MT20	3.0	4.0	1.50	1.75
J BMV1+p	MT20	2.0	4.0		

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
J	930	0	930	0	0	5-8	1-8
G	930	0	930	0	0	5-8	1-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	661	415 / 0	0 / 0	0 / 0	0 / 0	246 / 0	0 / 0
G	661	415 / 0	0 / 0	0 / 0	0 / 0	246 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	
FR-TO			FROM TO			FR-TO	
A-B		0 / 30	-78.0 -78.0	0.12 (1)	10.00	I-C	
B-C		-817 / 0	-78.0 -78.0	0.17 (1)	6.25	C-H	
C-D		-676 / 0	-103.1 -103.1	0.55 (1)	6.25	H-D	
D-E		-818 / 0	-78.0 -78.0	0.17 (1)	6.25	B-I	
E-F		0 / 30	-78.0 -78.0	0.12 (1)	10.00	H-E	
J-B		-907 / 0	0.0 0.0	0.10 (1)	7.81		
G-E		-907 / 0	0.0 0.0	0.10 (1)	7.81		
J-I		0 / 0	-24.5 -24.5	0.17 (4)	10.00		
I-H		0 / 676	-24.5 -24.5	0.24 (4)	10.00		
H-G		0 / 0	-24.5 -24.5	0.17 (4)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	3-3-8	-77	-77	---	FRONT	VERT	TOTAL	---	C1
D	9-8-8	-77	-77	---	FRONT	VERT	TOTAL	---	C1

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	21.0	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	34.4	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 = 3-3-8
END SETBACK = 3-3-8
END WALL WIDTH = 0-0
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

(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 (0.43")
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.43")
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.05")

CSI: TC=0.55/1.00 (C-D:1) , BC=0.24/1.00 (H-I:4) ,

WB=0.18/1.00 (E-H:1) , SSI=0.28/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

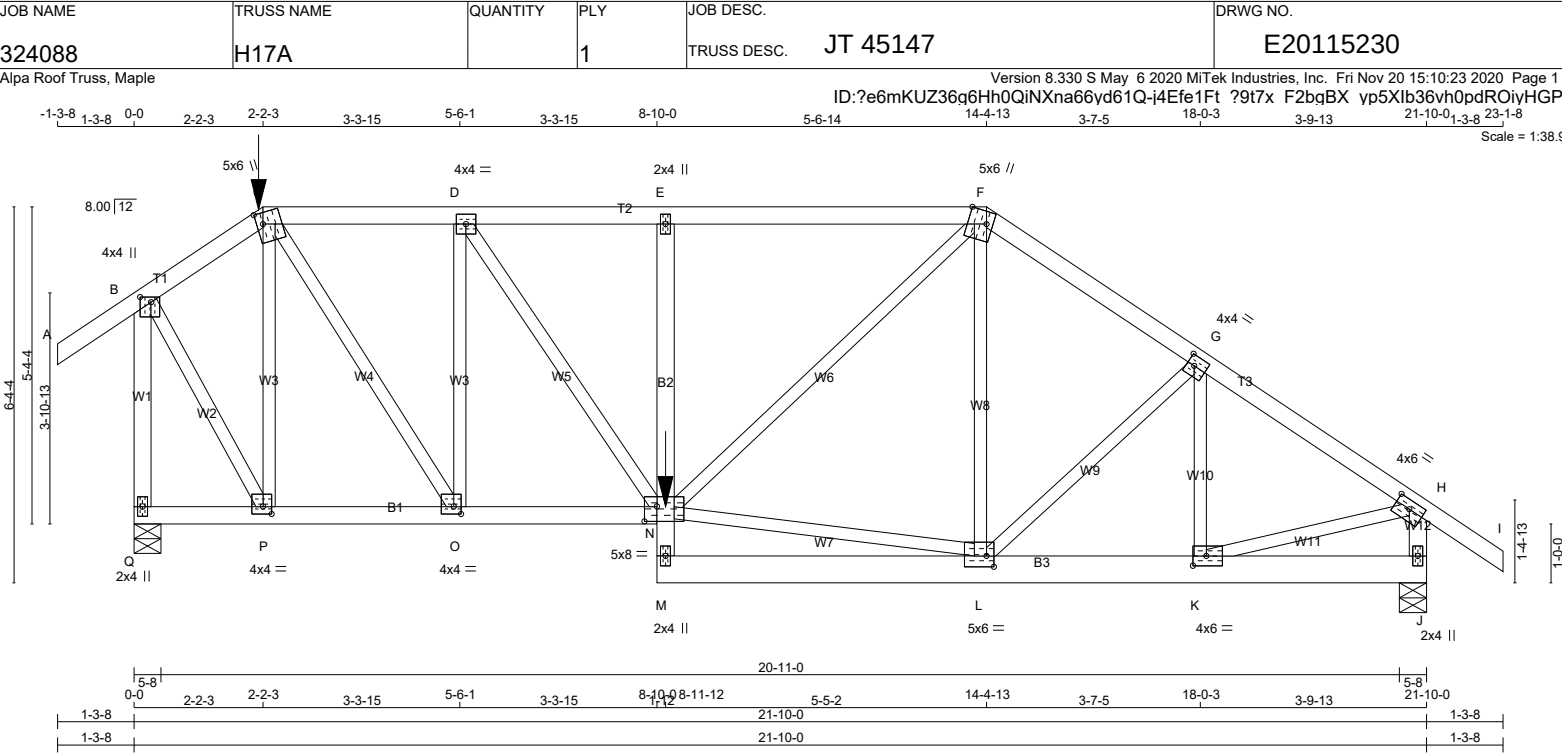
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (H) (INPUT = 0.90)
JSI METAL= 0.23 (I) (INPUT = 1.00)

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2





LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - F	2x4	DRY	No.2
F - I	2x4	DRY	No.2
Q - B	2x4	DRY	No.2
J - H	2x4	DRY	No.2
Q - N	2x4	DRY	No.2
M - E	2x4	DRY	No.2
M - J	2x6	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
SPF			

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW+p	MT20	4.0	4.0 1.00 2.25
C	TTWW+m	MT20	5.0	6.0 2.25 1.25
D	TMWW-t	MT20	4.0	4.0
E	TMV+p	MT20	2.0	4.0
F	TTWW+m	MT20	5.0	6.0 Edge 3.75
G	TMWW-t	MT20	4.0	4.0 2.00 1.50
H	TMVW-t	MT20	4.0	6.0 1.75 3.00
J	BMV1+p	MT20	2.0	4.0
K	BMWW-t	MT20	4.0	6.0 2.00 2.75
L	BMWW-t	MT20	5.0	6.0 2.25 1.50
M	BMV+p	MT20	2.0	4.0
N	BVMWW-t	MT20	5.0	8.0 3.00 2.50
O	TMWW-t	MT20	4.0	4.0 1.50 1.50
P	BMWW-t	MT20	4.0	4.0 1.50 1.75
Q	BMV1+p	MT20	2.0	4.0

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

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



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
Q	1738	0	1738	0	0	5-8	2-9
J	1468	0	1468	0	0	5-8	2-3

UNFACTORED REACTIONS		MAX./MIN. COMPONENT REACTIONS						
JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q		1237	767 / 0	0 / 0	0 / 0	0 / 0	471 / 0	0 / 0
J		1044	650 / 0	0 / 0	0 / 0	0 / 0	394 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.42 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 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.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. UNBRACED	MEMB.	FORCE (LBS)	MAX. UNBRACED	MEMB.
FR-TO		FROM TO	LENGTH	FR-TO		FROM TO	LENGTH
A-B	0 / 30	-78.0 -78.0	0.12 (1)	10.00	P-C	-988 / 0	0.44 (1)
B-C	-822 / 0	-78.0 -78.0	0.08 (1)	6.25	C-O	0 / 1383	0.34 (1)
C-D	-1422 / 0	-104.8 -104.8	0.19 (1)	5.24	O-D	-1068 / 0	0.47 (1)
D-E	-1920 / 0	-104.8 -104.8	0.36 (1)	4.42	D-N	0 / 879	0.22 (1)
E-F	-1909 / 0	-78.0 -78.0	0.39 (1)	4.43	N-L	0 / 1217	0.30 (1)
F-G	-1532 / 0	-78.0 -78.0	0.23 (1)	5.05	N-F	0 / 892	0.22 (1)
G-H	-1535 / 0	-78.0 -78.0	0.23 (1)	5.04	L-F	-52 / 44	0.03 (1)
H-I	0 / 30	-78.0 -78.0	0.12 (1)	10.00	L-G	-49 / 0	0.02 (1)
Q-B	-1721 / 0	0.0 0.0	0.45 (1)	6.30	K-G	-302 / 0	0.07 (1)
J-H	-1423 / 0	0.0 0.0	0.16 (1)	6.81	B-P	0 / 1268	0.31 (1)
					K-H	0 / 1335	0.33 (1)
Q-P	0 / 0	-24.9 -24.9	0.05 (4)	10.00			
P-O	0 / 662	-24.9 -24.9	0.15 (1)	10.00			
O-N	0 / 1423	-24.9 -24.9	0.30 (1)	10.00			
M-N	0 / 46	0.0 0.0	0.09 (1)	10.00			
N-E	-457 / 0	0.0 0.0	0.15 (1)	7.81			
M-I	0 / 57	-18.5 -18.5	0.07 (4)	10.00			

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

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

SPECIFIED LOADS:	
TOP CH. LL	= 21.0 PSF
DL	= 6.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 34.4 PSF

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CPrimeHip
LEFT SETBACK = 2-2-3
RIGHT SETBACK = 7-5-2
END SETBACK = 3-4-8
END WALL WIDTH = 0-0
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL.
LOADS APPLIED TO FIRST 9-1-7 OF SPAN
MEASURED FROM THE LEFT.

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

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

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

(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

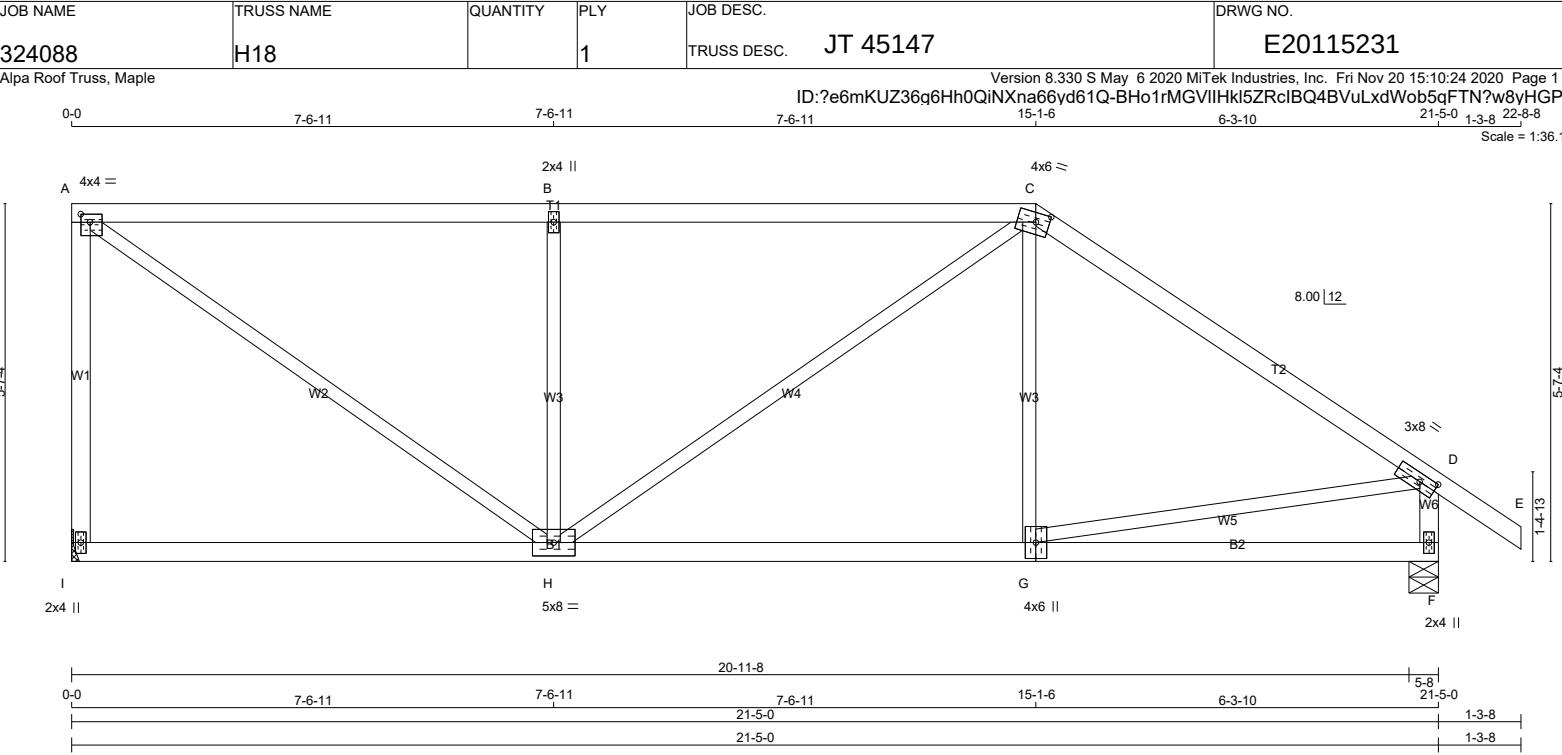
ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.45/1.00 (B-Q:1) , BC=0.30/1.00 (N-O:1) , WB=0.47/1.00 (D-O:1) , SSI=0.21/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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



LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
I - A	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
F - D	2x4	DRY	No.2	SPF
I - G	2x4	DRY	No.2	SPF
G - 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
A	TMVW-t	MT20	4.0	4.0 1.50 1.75
B	TMW+w	MT20	2.0	4.0
C	TTWW-m	MT20	4.0	6.0 1.75 2.50
D	TMVW-t	MT20	3.0	8.0 1.50 3.25
F	BMV1+p	MT20	2.0	4.0
G	BSWW+I	MT20	4.0	6.0
H	BMWWW-t	MT20	5.0	8.0
I	BMV1+p	MT20	2.0	4.0

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
I	1033	0	1033	0	0	MECHANICAL			
F	1140	0	1140	0	0	5-8	1-11		

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

UNFACTORED REACTIONS		MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	737	450 / 0	0 / 0	0 / 0	0 / 0	0 / 0	287 / 0	0 / 0
F	811	507 / 0	0 / 0	0 / 0	0 / 0	0 / 0	303 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.49 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.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
I-A	-979 / 0	0.0 0.0 0.56 (1)	7.81	A-H	0 / 1315	0.30 (1)	
A-B	-1075 / 0	-78.0 -78.0 0.87 (1)	4.49	H-B	-731 / 0	0.35 (1)	
B-C	-1075 / 0	-78.0 -78.0 0.87 (1)	4.49	H-C	0 / 253	0.06 (1)	
C-D	-1046 / 0	-78.0 -78.0 0.62 (1)	5.23	G-C	-34 / 68	0.02 (4)	
D-E	0 / 30	-78.0 -78.0 0.10 (1)	10.00	G-D	0 / 881	0.20 (1)	
F-D	-1081 / 0	0.0 0.0 0.11 (1)	7.59				
I-H	0 / 0	-18.5 -18.5 0.30 (4)	10.00				
H-G	0 / 869	-18.5 -18.5 0.38 (4)	10.00				
G-F	0 / 0	-18.5 -18.5 0.22 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 21.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 34.4 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 2015

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

(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 (0.71")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.71")
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.87/1.00 (A-B:1), BC=0.38/1.00 (G-H:4), WB=0.35/1.00 (B-H:1), SSI=0.29/1.00 (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

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (A) (INPUT = 0.90)
JSI METAL= 0.39 (G) (INPUT = 1.00)

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



scale = 1:54.1

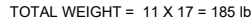
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

Scale = 1:53.0



L-R	0 / 1400	-10.5	-10.5	0.50 (1)	10.00
K-J	0 / 0	-18.5	-18.5	0.09 (4)	10.00

JSI GRIP= 0.89 (Q) (INPUT = 0.90)
JSI METAL= 0.47 (M) (INPUT = 1.00)

Scale = 1:23.3

JSI GRIP= 0.22 (B) (INPUT = 0.90)
JSI METAL= 0.16 (B) (INPUT = 1.00)

Scale = 1:18.7

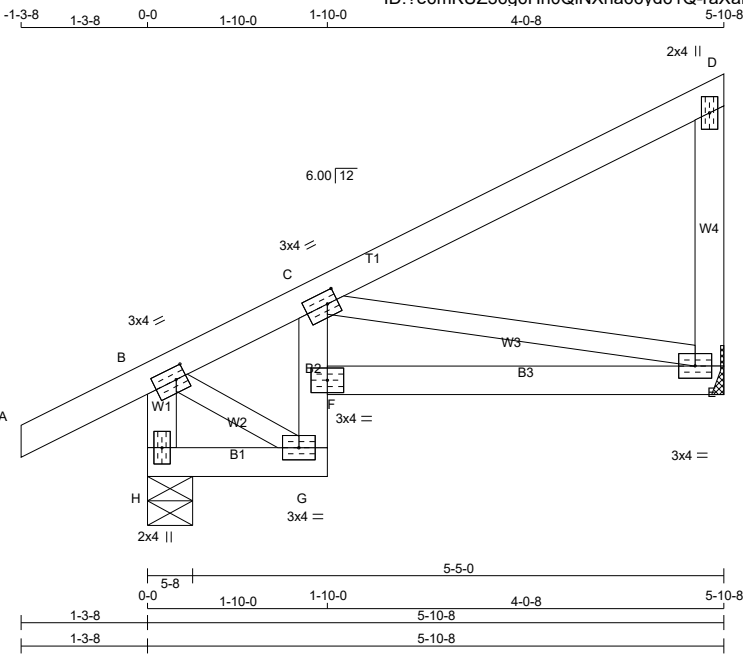
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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324088	J01T		1	TRUSS DESC. JT 45147	E20115236

Alpa Roof Truss, Maple

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ID:?e6mKUZ36g6Hh0QINXna66yd61Q-raXaMTP1w o1BxUIJqPEZj?6pmmoc4mb?KHeLSyHGF1



TOTAL WEIGHT = 9 X 26 = 232 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	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 - C	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	TMVW-t	MT20	3.0	4.0	1.50 1.25
C	TMVW-t	MT20	3.0	4.0	1.50 1.25
D	TMV+p	MT20	2.0	4.0	
E	BMVW1-t	MT20	3.0	4.0	
F	BVM-I	MT20	3.0	4.0	
G	BMVW-t	MT20	3.0	4.0	
H	BMV1+p	MT20	2.0	4.0	

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQRD
		GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
H	401	0	401	0	0
E	271	0	271	0	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
H	284	187 / 0	0 / 0	0 / 0	0 / 0	0 / 0	97 / 0
E	194	117 / 0	0 / 0	0 / 0	0 / 0	0 / 0	77 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 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 CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		
H-B	-412 / 0	0.0	0.0 0.03 (1)	7.81	B-G	0 / 244	0.05 (1)
A-B	0 / 24	-78.0	-78.0 0.10 (1)	10.00	C-E	-386 / 0	0.11 (1)
B-C	-227 / 0	-78.0	-78.0 0.07 (1)	6.25			
C-D	-52 / 0	-78.0	-78.0 0.13 (1)	6.25			
E-D	-138 / 0	0.0	0.0 0.12 (1)	7.81			
H-G	-29 / 3	-18.5	-18.5 0.06 (1)	6.25			
G-F	-68 / 0	0.0	0.0 0.16 (1)	7.81			
F-C	-45 / 33	0.0	0.0 0.14 (1)	7.81			
F-E	0 / 424	-18.5	-18.5 0.13 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP	CH.	LL	=	21.0	PSF
		DL	=	6.0	PSF
BOT	CH.	LL	=	0.0	PSF
		DL	=	7.4	PSF
TOTAL LOAD				=	34.4 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

CSI: TC=0.13/1.00 (C-D:1) , BC=0.16/1.00 (F-G:1) , WB=0.11/1.00 (C-E:1) , SSI=0.18/1.00 (C-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.64 (E) (INPUT = 0.90)
JSI METAL= 0.14 (E) (INPUT = 1.00)

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



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TOTAL WEIGHT = 5 X 19 = 93 lb

JSI GRIP= 0.23 (B) (INPUT = 0.90)
JSI METAL= 0.05 (E) (INPUT = 1.00)

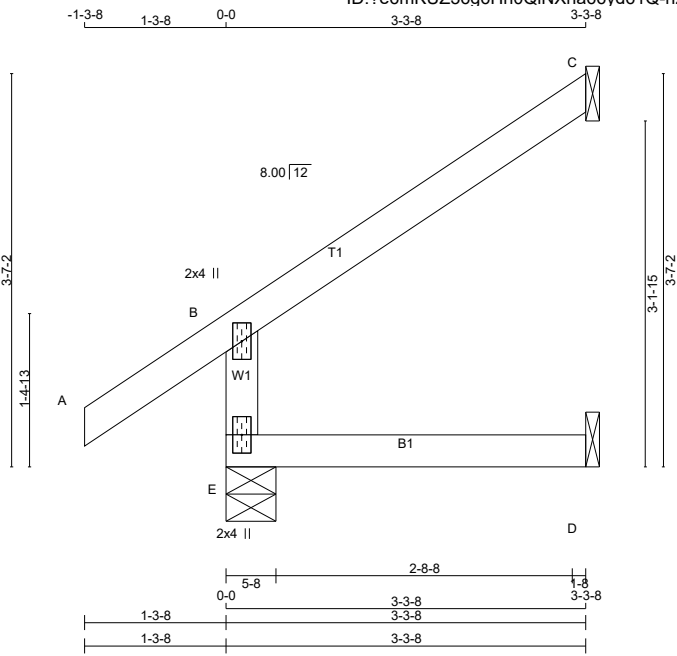
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324088	J03		1	TRUSS DESC. JT 45147	E20115238

Alpa Roof Truss, Maple

ID: ?e6mKUZ36g6Hh0QiNXna66y61Q-nzeKn9RHSc2IQEd8QFRie84S5aU14? uTemkQKyHGF?

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Scale = 1:21.1



TOTAL WEIGHT = 5 X 11 = 57 lb

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

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMV+p	MT20	2.0	4.0
E	BMV1+p	MT20	2.0	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	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
E	302	0	302	0	0
C	96	0	96	0	0
D	27	0	30	0	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	212	144 / 0	0 / 0	0 / 0	0 / 0	69 / 0	0 / 0
C	67	52 / 0	0 / 0	0 / 0	0 / 0	15 / 0	0 / 0
D	21	0 / 0	0 / 0	0 / 0	0 / 0	21 / 0	0 / 0

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

CHORDS		WEBS	
MEMB.	FORCE	MEMB.	FORCE
FR-TO	COMBINED	FR-TO	COMBINED
E-B	-267 / 0	E-B	-267 / 0
A-B	0 / 30	A-B	0 / 30
B-C	-18 / 0	B-C	-18 / 0
E-D	0 / 0	E-D	0 / 0

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

PATTERN-LOADING CHECK APPLIED TO THIS TRUSS.

DESIGN CRITERIA

SPECIFIED LOADS:			
TOP CH.	LL	=	21.0 PSF
DL	=	6.0 PSF	
BOT CH.	LL	=	0.0 PSF
DL	=	7.4 PSF	
TOTAL LOAD	=	34.4 PSF	

SPACING = 24.0 IN. C/C

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

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

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 (0.19")
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=0.14/1.00 (B-C:6) , BC=0.04/1.00 (D-E:4) , WB=0.00/1.00 (n/a:0) , SSI=0.10/1.00 (B-C:6)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.16 (B) (INPUT = 0.90)
JSI METAL= 0.14 (B) (INPUT = 1.00)

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2

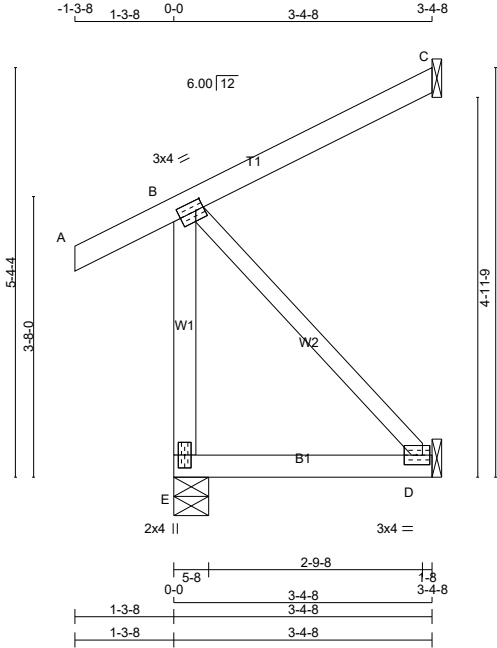
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324088	J04		1	TRUSS DESC. JT 45147	E20115239

Alpa Roof Truss, Maple

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ID:~e6mKUZ36g6Hh0QinXna66yd61Q-nzeKn9RHSc2lQEd8QFRie84SzaUt4? uTemkQKyHGF?

Scale = 1:30.1



TOTAL WEIGHT = 5 X 17 = 86 lb

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	3.0	4.0	1.50	1.25
D	BMW1-t	MT20	3.0	4.0		
E	BMV1+p	MT20	2.0	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	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
E	267	0	267	0	5-8	1-8
C	132	0	132	0	1-8	1-8
D	29	0	33	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
E	188	128 / 0	0 / 0	0 / 0	0 / 0	60 / 0	0 / 0
C	91	71 / 0	0 / 0	0 / 0	0 / 0	20 / 0	0 / 0
D	24	0 / 0	0 / 0	0 / 0	0 / 0	24 / 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 = 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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)
FR-TO		FROM	TO		FR-TO		
E-B	-237 / 0	0.0	0.0	0.05 (1)	7.81	0 / 0	0.00 (1)
A-B	0 / 24	-78.0	-78.0	0.12 (5)	10.00		
B-C	0 / 0	-78.0	-78.0	0.15 (1)	10.00		
E-D	0 / 0	-18.5	-18.5	0.05 (4)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

PATTERN-LOADING CHECK APPLIED TO THIS TRUSS.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	21.0	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	34.4	PSF

SPACING = 24.0 IN. C/C

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

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

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

CSI: TC=0.15/1.00 (B-C:1) , BC=0.05/1.00 (D-E:4) , WB=0.00/1.00 (B-D:1) , SSI=0.09/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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	650	371	1747	788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

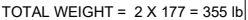
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (B) (INPUT = 0.90)
JSI METAL= 0.05 (E) (INPUT = 1.00)

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



Scale = 1:66.0



COMPANION LIVE LOAD FACTOR = 1.00
CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324087	H01TA		2	TRUSS DESC. JT 45147	E20115245(2)

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	2.00	2.75
C	TMWW-t	MT20	4.0	4.0	2.00	1.75
D	TTWW+m	MT20	4.0	9.0	Edge	
E	TMVW-t	MT20	4.0	6.0	2.00	2.50
F	TMWW-t	MT20	4.0	4.0		
G	TMW+w	MT20	2.0	4.0		
H	TS-t	MT20	4.0	6.0		
I	TMVW-t	MT20	4.0	4.0		
J	TMWW-t	MT20	5.0	6.0	2.50	2.25
K	TTWW+m	MT20	4.0	9.0	Edge	
L	TMWW-t	MT20	4.0	4.0	2.00	1.75
M	TMVW-p	MT20	5.0	6.0	2.00	2.75
O	BMV1+p	MT20	3.0	4.0		
P	BMWW-t	MT20	4.0	6.0	2.00	1.75
Q	BMWW-t	MT20	4.0	4.0		
R	BMWWW-t	MT20	5.0	10.0	2.25	2.75
S	BMV+p	MT20	2.0	4.0		
T	BVMWW-I	MT20	6.0	16.0	3.00	9.00
U	BMWWW-t	MT20	5.0	8.0		
V	BS-t	MII16	3.0	17.5		
W	BMWW-t	MT20	4.0	6.0	2.00	2.50
X	BVMWW-I	MT20	6.0	12.0	3.00	7.50
Y	BMV+p	MT20	2.0	4.0		
Z	BMWWW-t	MT20	5.0	8.0	2.50	1.50
AA	BMWW-t	MT20	4.0	6.0	2.00	1.75
AB	BMV1+p	MT20	3.0	4.0		

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

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
MT20	650	371	1747 788 1987 1873
MII16	438	302	2547 1256 4283 1816

PLATE PLACEMENT TOL. = 0.250 inches

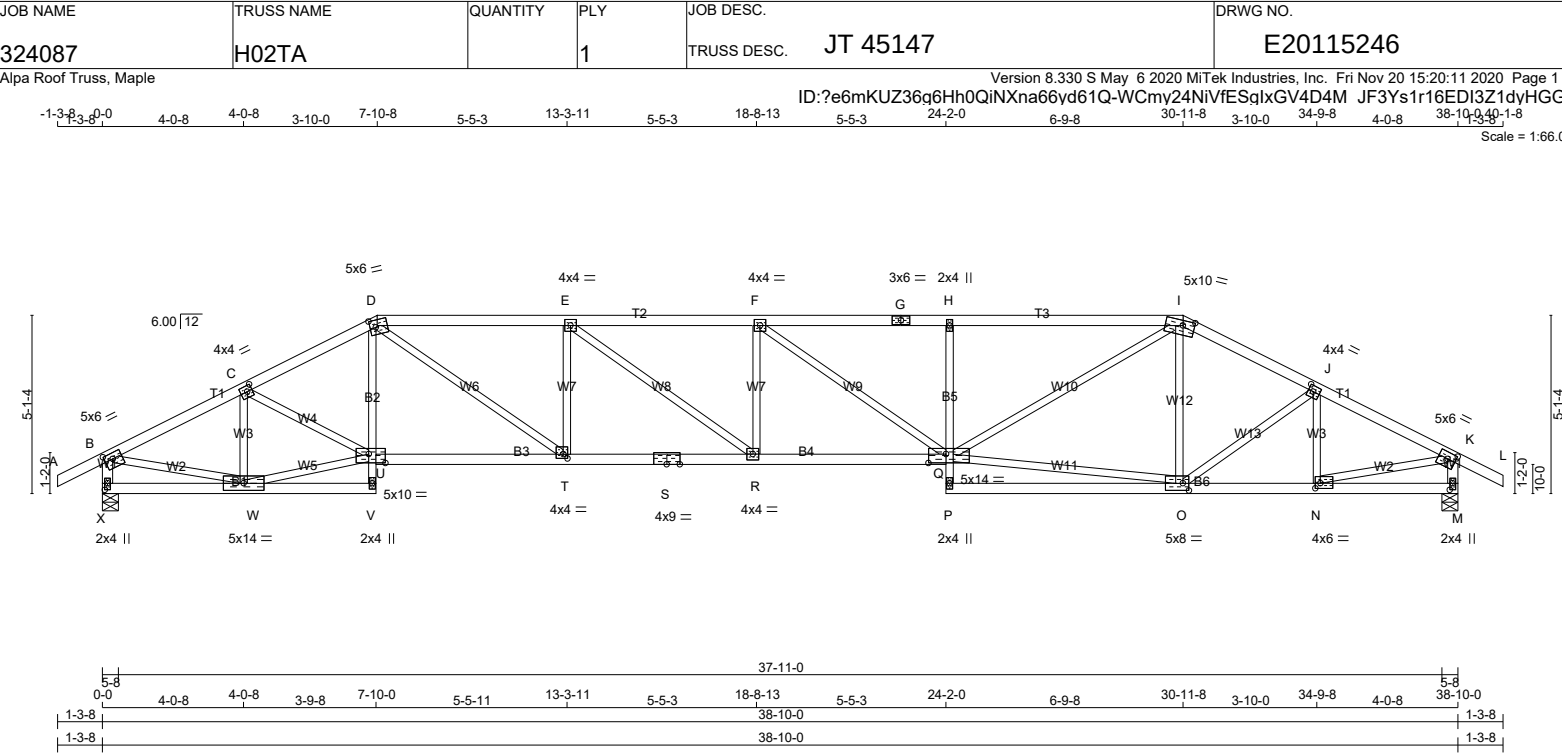
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (X) (INPUT = 0.90)

JSI METAL= 0.97 (T) (INPUT = 1.00)

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2





LUMBER					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER					DESIGN CRITERIA				
N. L. G. A. RULES		SIZE		LUMBER		DESCR.		BEARINGS				SPECIFIED LOADS:		
A - D	2x4	DRY	No.2	SPF			FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
D - G	2x4	DRY	1650F 1.5E	SPF			GROSS REACTION		GROSS REACTION		BRG		BRG	
G - I	2x4	DRY	1650F 1.5E	SPF			JT VERT		DOWN		HORZ		UPLIFT	
I - L	2x4	DRY	No.2	SPF			X 1979 0		1979 0		0 0		5-8 2-15	
X - B	2x4	DRY	No.2	SPF			M 1979 0		1979 0		0 0		5-8 2-15	
M - K	2x4	DRY	No.2	SPF										
X - V	2x4	DRY	No.2	SPF										
V - D	2x3	DRY	No.2	SPF										
U - S	2x4	DRY	No.2	SPF										
S - Q	2x4	DRY	No.2	SPF										
P - H	2x3	DRY	No.2	SPF										
P - M	2x4	DRY	No.2	SPF										
ALL WEBS EXCEPT					2x3 DRY No.2		SPF							
DRY: SEASONED LUMBER.														
PLATES (table is in inches)														
JT	TYPE	PLATES	W	LEN	Y	X								
B	TMVW-t	MT20	5.0	6.0	2.00	2.75								
C	TMWW-t	MT20	4.0	4.0	2.00	1.75								
D	TTVW-m	MT20	5.0	6.0	2.50	2.00								
E	TMWW-t	MT20	4.0	4.0										
F	TMWW-t	MT20	4.0	4.0										
G	TS-t	MT20	3.0	6.0										
H	TMV+p	MT20	2.0	4.0										
I	TTWW-m	MT20	5.0	10.0	1.75	4.00								
J	TMWW-t	MT20	4.0	4.0	2.00	1.75								
K	TMVW-t	MT20	5.0	6.0	2.25	2.75								
M	BMV1+p	MT20	2.0	4.0	2.25	1.00								
N	BMWW-t	MT20	4.0	6.0	1.75	1.75								
O	BMWWW-t	MT20	5.0	8.0	2.50	2.00								
P	BMV+p	MT20	2.0	4.0										
Q	BVMWWW-I	MT20	5.0	14.0	3.00	6.00								
R	BMWW-t	MT20	4.0	4.0										
S	BS-t	MT20	4.0	9.0										
T	BMWW-t	MT20	4.0	4.0	1.50	1.50								
U	BVMWW-I	MT20	5.0	10.0	3.00	5.75								
V	BMV+p	MT20	2.0	4.0										
W	BMWWW-t	MT20	5.0	14.0										
X	BMV1+p	MT20	2.0	4.0	2.25	1.00								
LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2														
Y. WIDYA					100225448									
11/20/2020														
PROVINCE OF ONTARIO														
TOTAL LOAD CASES: (4)														
CHORDS														
MEMB. MAX. FACTORED FORCE (LBS)														
VERT. LOAD (PLF)														
LC1 MAX UNBRACED LENGTH														
FR-TO														
A- B														
B- C														
C- D														
D- E														
E- F														
F- G														
G- H														
H- I														
I- J														
J- K														
K- L														
X- B														
M- K														
X- W														
W- V														
V- U														
U- D														
U- T														
T- S														
S- R														
R- Q														
P- Q														
Q- H														
P- O														
O- N														
N- M														
WEBS														
MEMB. MAX. FACTORED FORCE (LBS)														
MAX CSI (LC)														
FR-TO														
W- C														
W- U														
C- U														
D- T														
T- E														
E- R														
R- F														
F- Q														
Q- O														
Q- I														
O- I														
O- J														
N- J														
B- W														
N- K														
ALLOWABLE DEFL.(LL)= L/360 (1.29")														
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.33")														
ALLOWABLE DEFL.(TL)= L/360 (1.29")														
CALCULATED VERT. DEFL.(TL) = L/ 711 (0.66")														
CSI: TC=0.68/1.00 (H-I:1) , BC=0.82/1.00 (Q-R:1) ,														
WB=0.56/1.00 (B-W:1) , SSI=0.24/1.00 (H-I:1)														
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10														
COMP=1.10 SHEAR=1.10 TENS= 1.10														
COMPANION LIVE LOAD FACTOR = 1.00														
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .														
NAIL VALUES														
PLATE GRIP(DRY) SHEAR SECTION														
(PSI) (PLI) (PLI)														
MAX MIN MAX MIN MAX MIN														
MT20 650 371 1747 788 1987 1873														
PLATE PLACEMENT TOL. = 0.250 inches														
PLATE ROTATION TOL. = 5.0 Deg.														
JSI GRIP= 0.90 (K) (INPUT = 0.90)														
JSI METAL= 0.94 (S) (INPUT = 1.00)														



Scale = 1:66.0

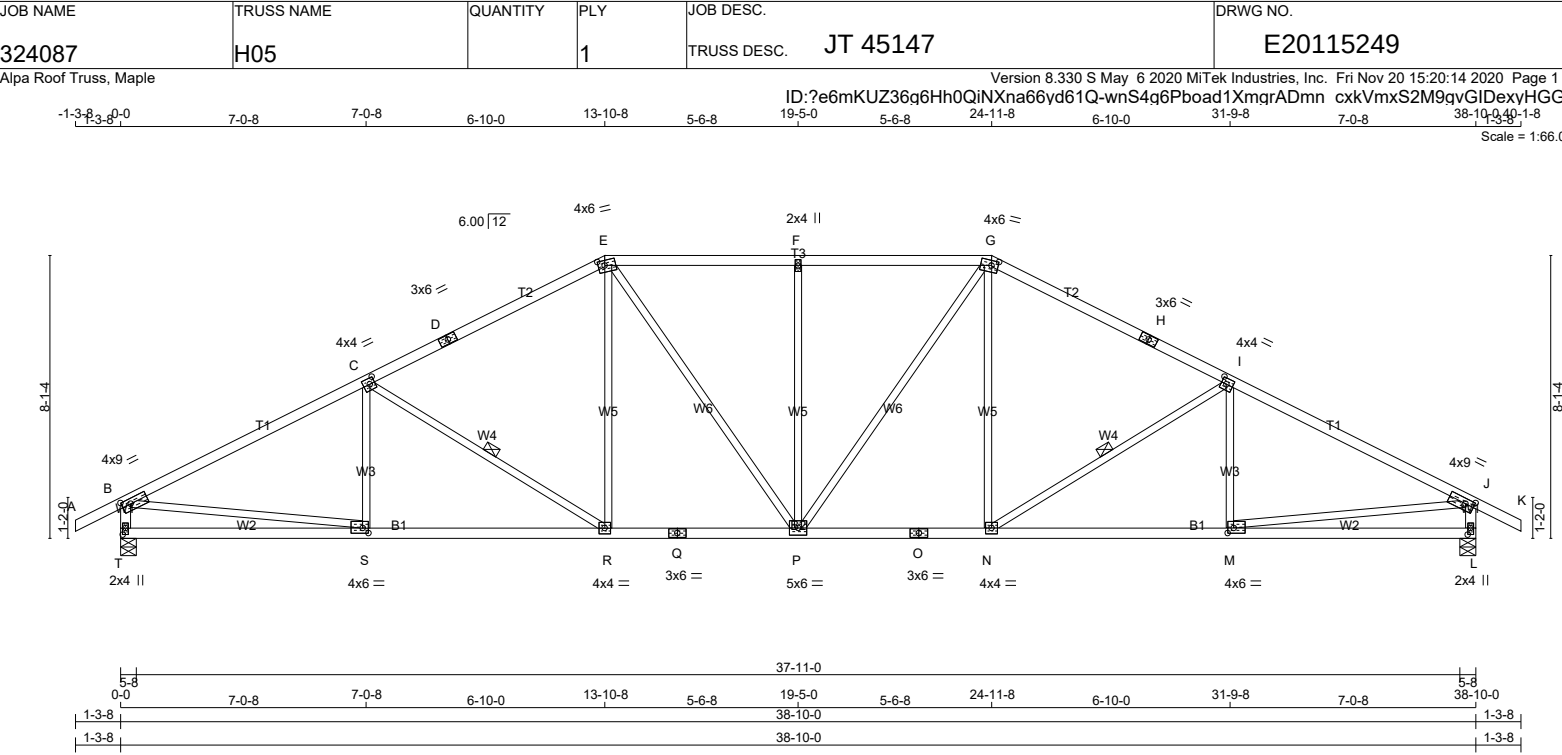
WEBS		
MEMB.	MAX. FORCE (LBS)	FACTORED MAX CSI (LC)
R-TO		
W-C	-1003 / 0	0.19 (1)
W-U	0 / 2418	0.54 (1)
C-U	0 / 722	0.16 (1)
D-T	-517 / 0	0.17 (1)
T-E	0 / 476	0.11 (1)
E-R	0 / 1108	0.25 (1)
R-F	-640 / 0	0.26 (1)
R-H	0 / 225	0.05 (1)
Q-O	0 / 2386	0.54 (1)
Q-I	0 / 1625	0.37 (1)
O-I	-261 / 0	0.15 (1)
O-J	-140 / 0	0.09 (1)
N-J	-337 / 0	0.07 (1)
B-W	0 / 2445	0.55 (1)
N-K	0 / 2535	0.57 (1)

JSI GRIP= 0.90 (B) (INPUT = 0.90)
JSI METAL= 0.84 (S) (INPUT = 1.00)

Scale = 1:66.0

CHORDS					WEBS				
MAX. FACTORED		FACTORED			MAX. FACTORED				
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX. CSI (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO		LENGTH	FR-TO			
A-B	0 / 24	-78.0	-78.0	0.10 (1)	10.00	V-C	-1000 / 0	0.19 (1)	
B-C	-2657 / 0	-78.0	-78.0	0.24 (1)	4.06	V-T	0 / 2413	0.54 (1)	
C-D	-3403 / 0	-78.0	-78.0	0.25 (1)	3.64	C-T	0 / 748	0.17 (1)	
D-E	-2905 / 0	-78.0	-78.0	0.27 (1)	3.89	D-S	-635 / 0	0.36 (1)	
E-F	-3089 / 0	-78.0	-78.0	0.52 (1)	3.54	S-E	0 / 489	0.11 (1)	
F-G	-3089 / 0	-78.0	-78.0	0.51 (1)	3.55	E-Q	0 / 690	0.16 (1)	
G-H	-2906 / 0	-78.0	-78.0	0.25 (1)	3.89	Q-F	-557 / 0	0.35 (1)	
H-I	-2568 / 0	-78.0	-78.0	0.47 (1)	3.90	Q-G	0 / 248	0.06 (1)	
I-J	-2835 / 0	-78.0	-78.0	0.51 (1)	3.70	P-N	0 / 2374	0.53 (1)	
J-K	0 / 24	-78.0	-78.0	0.10 (1)	10.00	P-H	0 / 1544	0.35 (1)	
W-B	-1942 / 0	0.0	0.0	0.20 (1)	6.04	N-H	-495 / 0	0.43 (1)	
L-J	-1930 / 0	0.0	0.0	0.20 (1)	6.06	N-I	-338 / 0	0.33 (1)	
						M-I	-248 / 0	0.07 (1)	
W-V	0 / 0	-18.5	-18.5	0.06 (4)	10.00	B-V	0 / 2439	0.55 (1)	
V-U	0 / 39	-18.5	-18.5	0.06 (4)	10.00	M-J	0 / 2582	0.58 (1)	
U-T	0 / 33	0.0	0.0	0.10 (1)	10.00				
T-D	0 / 317	0.0	0.0	0.17 (1)	10.00				
T-S	0 / 3055	-18.5	-18.5	0.55 (1)	10.00				
S-R	0 / 2594	-18.5	-18.5	0.50 (1)	10.00				
R-Q	0 / 2594	-18.5	-18.5	0.50 (1)	10.00				
Q-P	0 / 2910	-18.5	-18.5	0.55 (1)	10.00				
O-P	0 / 9	0.0	0.0	0.06 (1)	10.00				
P-G	-540 / 0	0.0	0.0	0.48 (1)	7.81				
O-N	0 / 25	-18.5	-18.5	0.10 (4)	10.00				
N-M	0 / 2557	-18.5	-18.5	0.49 (1)	10.00				
M-L	0 / 0	-18.5	-18.5	0.15 (4)	10.00				

JSI GRIP= 0.90 (J) (INPUT = 0.90)
JSI METAL= 0.81 (R) (INPUT = 1.00)



LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
A - D	2x4	DRY	No.2	SPF
D - E	2x4	DRY	No.2	SPF
E - G	2x4	DRY	No.2	SPF
G - H	2x4	DRY	No.2	SPF
H - K	2x4	DRY	No.2	SPF
T - B	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF
T - Q	2x4	DRY	No.2	SPF
Q - O	2x4	DRY	No.2	SPF
O - L	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	9.0	1.75 3.00
C	TMWW-t	MT20	4.0	4.0	2.00 1.75
D	TS-t	MT20	3.0	6.0	
E	TTWW-m	MT20	4.0	6.0	1.75 2.25
F	TMW+w	MT20	2.0	4.0	
G	TTWW-m	MT20	4.0	6.0	1.75 2.25
H	TS-t	MT20	3.0	6.0	
I	TMWW-t	MT20	4.0	4.0	2.00 1.75
J	TMVW-t	MT20	4.0	9.0	1.75 3.00
L	BMV1+p	MT20	2.0	4.0	2.25 1.00
M	BMWW-t	MT20	4.0	6.0	1.75 2.00
N	BMWW-t	MT20	4.0	4.0	
O	BS-t	MT20	3.0	6.0	
P	BMWWW-t	MT20	5.0	6.0	
Q	BS-t	MT20	3.0	6.0	
R	BMWW-t	MT20	4.0	4.0	
S	BMWW-t	MT20	4.0	6.0	1.75 2.00
T	BMV1+p	MT20	2.0	4.0	2.25 1.00

LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
T	1979	0	1979	0	0	5-8	2-15		
L	1979	0	1979	0	0	5-8	2-15		

UNFACTORED REACTIONS		1ST LCASE		MAX /MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
T	1409	872 / 0	0 / 0	0 / 0	0 / 0
L	1409	872 / 0	0 / 0	0 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.45 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-R, I-N.

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

LOADING
TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD LC1 (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 24	-78.0	-78.0 0.10 (1)	10.00	S-C	-174 / 42	0.06 (1)
B-C	-2861 / 0	-78.0	-78.0 0.73 (1)	3.45	C-R	-522 / 0	0.24 (1)
C-D	-2427 / 0	-78.0	-78.0 0.64 (1)	3.78	R-E	0 / 397	0.09 (1)
D-E	-2427 / 0	-78.0	-78.0 0.64 (1)	3.78	E-P	0 / 379	0.09 (1)
E-F	-2368 / 0	-78.0	-78.0 0.39 (1)	4.11	P-F	-527 / 0	0.67 (1)
F-G	-2368 / 0	-78.0	-78.0 0.39 (1)	4.11	P-G	0 / 379	0.09 (1)
G-H	-2427 / 0	-78.0	-78.0 0.64 (1)	3.78	N-G	0 / 397	0.09 (1)
H-I	-2427 / 0	-78.0	-78.0 0.64 (1)	3.78	N-I	-522 / 0	0.24 (1)
I-J	-2861 / 0	-78.0	-78.0 0.73 (1)	3.45	M-I	-174 / 42	0.06 (1)
J-K	0 / 24	-78.0	-78.0 0.10 (1)	10.00	B-S	0 / 2604	0.59 (1)
T-B	-1924 / 0	0.0	0.0 0.19 (1)	6.06	M-J	0 / 2604	0.59 (1)
L-J	-1924 / 0	0.0	0.0 0.19 (1)	6.06			

T-S	0 / 0	-18.5	-18.5 0.21 (4)	10.00
S-R	0 / 2585	-18.5	-18.5 0.51 (1)	10.00
R-Q	0 / 2149	-18.5	-18.5 0.43 (1)	10.00
Q-P	0 / 2149	-18.5	-18.5 0.43 (1)	10.00
P-O	0 / 2149	-18.5	-18.5 0.43 (1)	10.00
O-N	0 / 2149	-18.5	-18.5 0.43 (1)	10.00
N-M	0 / 2585	-18.5	-18.5 0.51 (1)	10.00
M-L	0 / 0	-18.5	-18.5 0.21 (4)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:			
TOP CH.	LL	=	21.0 PSF
	DL	=	6.0 PSF
BOT CH.	LL	=	0.0 PSF
	DL	=	7.4 PSF
TOTAL LOAD = 34.4 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 2015

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

(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 (1.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.15")
ALLOWABLE DEFL.(TL)= L/360 (1.29")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.30")

CSI: TC=0.73/1.00 (B-C:1), BC=0.51/1.00 (R-S:1), WB=0.67/1.00 (F-P:1), SSI=0.24/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (M) (INPUT = 0.90)
JSI METAL= 0.64 (Q) (INPUT = 1.00)