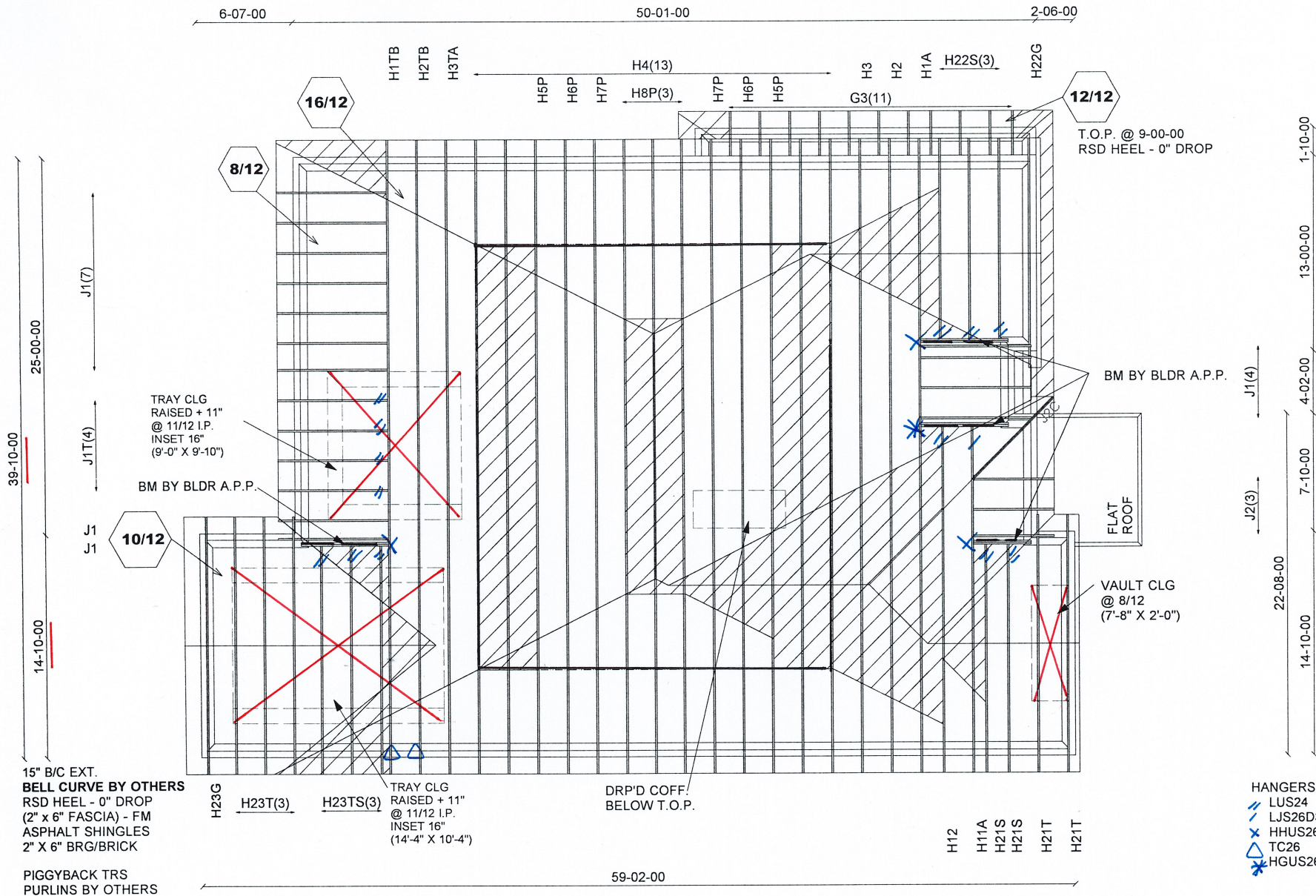




- HANGERS
- ✓ LUS24
 - ✓ LJS26DS
 - ✗ HHUS26-2
 - △ TC26
 - ✗ HGUS26-3

CONVENTIONAL FRAMING BY OTHERS

E20035444 - E20035467

OAKGROVE

W/SITTING CLG OR OPT UEGGIA (FLAT)



Job Track: 45147
Layout ID: 318467
Plan Log: 105728

Builder / Location:
GOLD PARK HOMES / VAUGHAN

Project: **PINE VALLEY**

Date: 2020-03-17 Designer: AMANDA

Model / Elevation:
5003 / B R.U. OPT TRAY

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.

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.

Version 8.310 S Oct 29 2019 MiTek Industries, Inc. Wed Mar 25 11:45:51 2020 Page 1



TOTAL WEIGHT = $11 \times 10 = 106 \text{ lb}$

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMV+p	MT20	2.0	4.0	
D	BMV1+p	MT20	2.0	4.0	

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS
CHORD AT JT(S): B

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS				WEB S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		
A-B	-7 / 0	-78.0	-78.0	0.05 (1)			10.00
D-A	-98 / 0	0.0	0.0	0.03 (1)			7.81
E-D	0 / 0	-96.5	-96.5	0.16 (5)			10.00
D-C	0 / 0	-18.5	-18.5	0.03 (4)			10.00

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

PATTERN-LOADING CHECK APPLIED TO THIS TRUSS.

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



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

CANTILEVER DEFLECTION:
ALLOWABLE DEFL.(LL)= $L/120$ (0.19")
CALCULATED VERT. DEFL.(LL)= $L/999$ (0.01")
ALLOWABLE DEFL.(TL)= $L/120$ (0.19")
CALCULATED VERT. DEFL.(TL)= $L/999$ (0.01")

CSI: TC=0.05/1.00 (A-B:1), BC=0.16/1.00 (D-E:5), WB=0.00/1.00 (n/a:0), SSI=0.12/1.00 (D-E:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

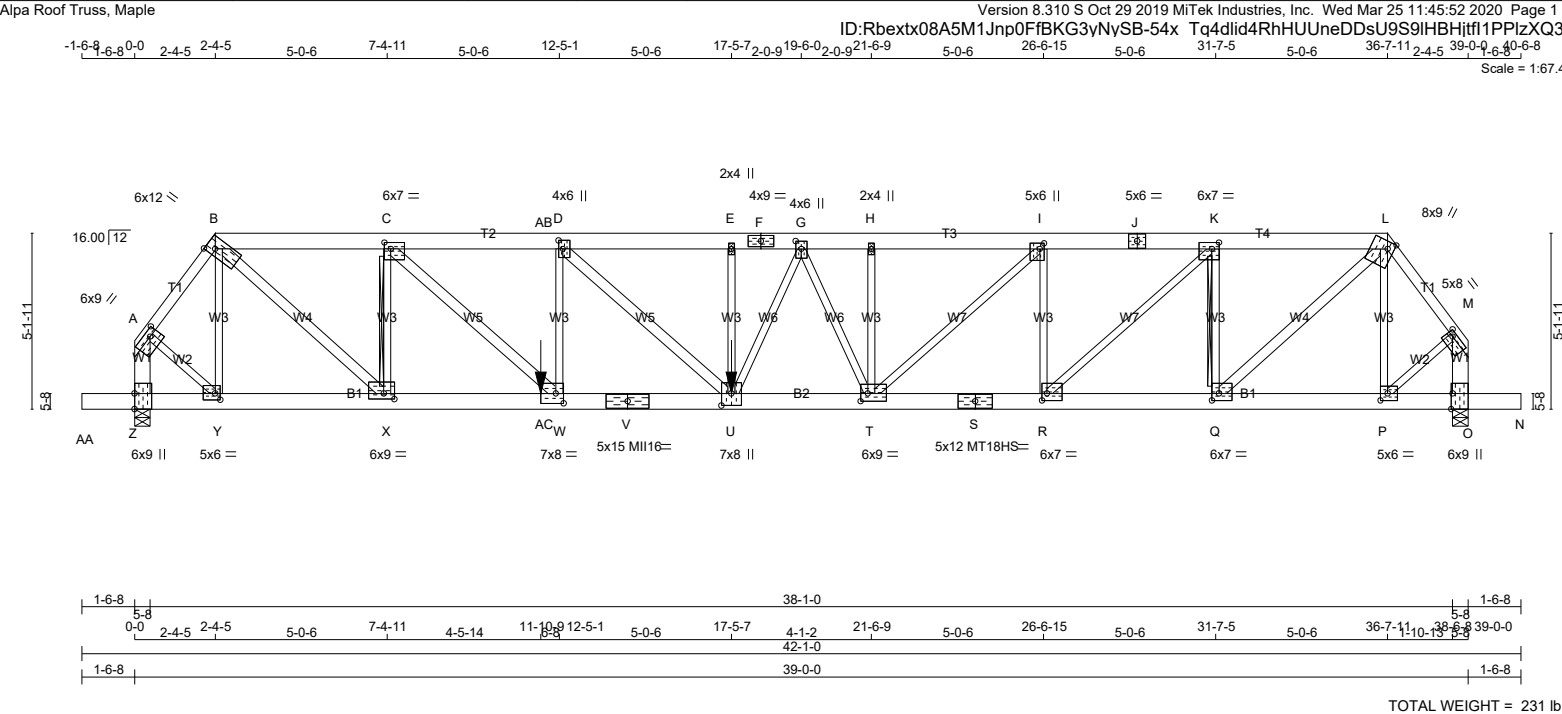
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.07 (A) (INPUT = 0.90)

JSI METAL= 0.05 (A) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318466	H1A	1	1	TRUSS DESC. JT 45147	E20035545



LUMBER										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA									
N. L. G. A. RULES																													
CHORDS SIZE																													
A - B 2x4 DRY No.2 SPF																				*** SPECIAL LOADS ANALYSIS ***									
B - F 2x6 DRY 1650F 1.5E SPF																				GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.									
F - J 2x6 DRY 1650F 1.5E SPF																				LOADS WERE DERIVED FROM USER INPUT NO FURTHER MODIFICATIONS WERE MADE									
J - L 2x6 DRY 1650F 1.5E SPF																													
L - M 2x4 DRY No.2 SPF																				SPECIFIED LOADS:									
Z - A 2x6 DRY No.2 SPF																				TOP CH. LL = 21.0 PSF									
O - M 2x6 DRY No.2 SPF																				DL = 6.0 PSF									
AA- V 2x6 DRY 1650F 1.5E SPF																				BOT CH. LL = 0.0 PSF									
V - S 2x6 DRY 1650F 1.5E SPF																				DL = 7.4 PSF									
S - N 2x6 DRY 1650F 1.5E SPF																				TOTAL LOAD = 34.4 PSF									
ALL WEBS 2x3 DRY No.2 SPF																				SPACING = 24.0 IN./C									
EXCEPT																													
B - X 2x4 DRY 1650F 1.5E SPF																				LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM									
C - W 2x4 DRY No.2 SPF																													
D - U 2x4 DRY No.2 SPF																													
Q - L 2x4 DRY 1650F 1.5E SPF																													
DRY: SEASONED LUMBER.																													



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318466	H1A	1	1	TRUSS DESC. JT 45147	E20035545(2)

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
V	BS-t	MII16	5.0	15.0		
W	BMWW-t	MT20	7.0	8.0	3.50	2.75
X	BMWW-t	MT20	6.0	9.0	2.00	3.75
Y	BMWW-t	MT20	5.0	6.0	2.25	1.75
Z	BMV1+t	MT20	6.0	9.0	Edge	

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

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
U	17-5-7	-2233	-2233	---	FRONT	VERT	TOTAL	---	C1
AC	11-10-9	-1000	-1000	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
	MAX	MIN	MAX
MT20	650	371	1747
MII16	438	302	2547
MT18HS	586	403	2455

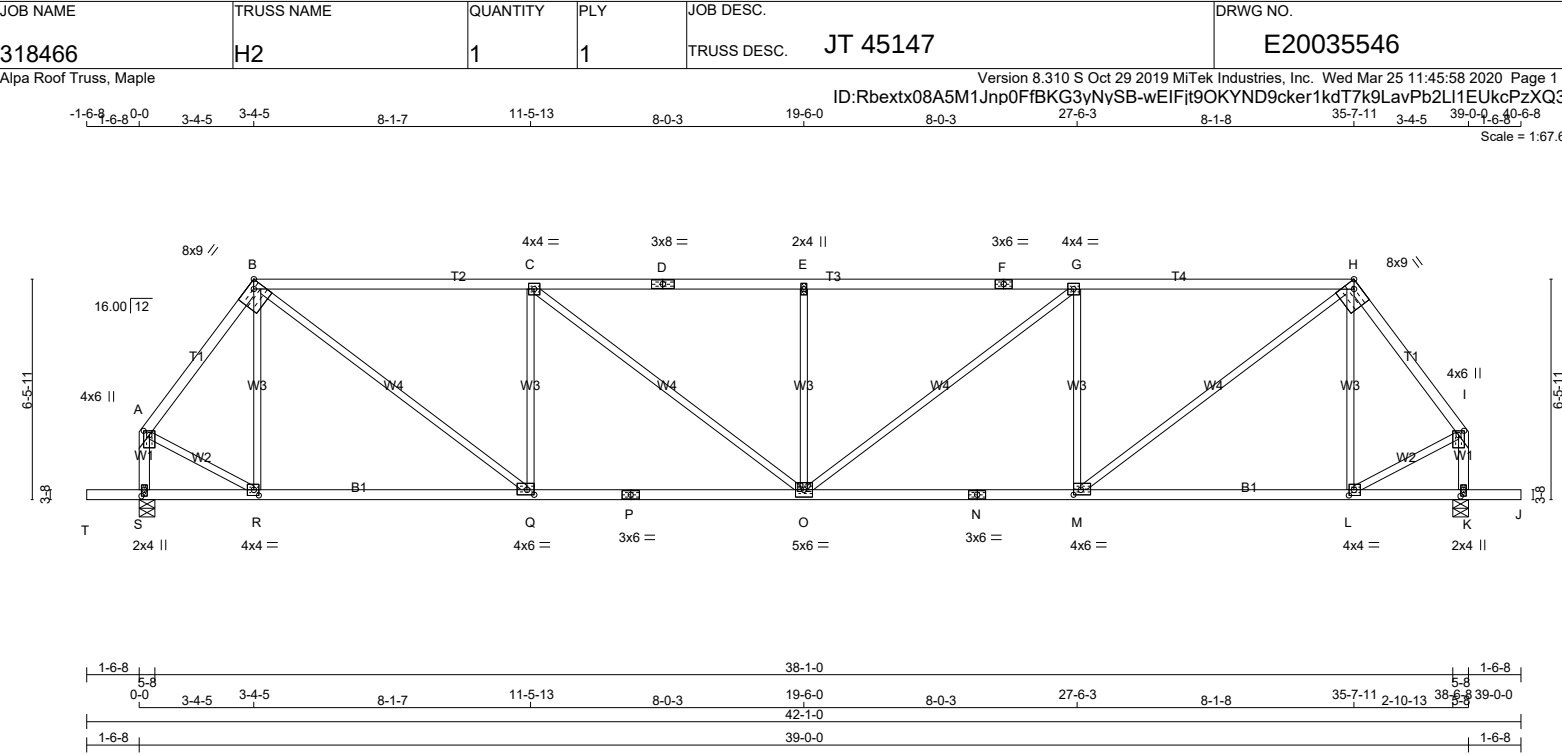
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (I) (INPUT = 0.90)
JSI METAL= 0.94 (S) (INPUT = 1.00)

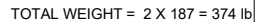
LATERAL BRACE(S) SHOWN SHALL BE
2X4 SPF#2





LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA			
N. L. G. A. RULES																	
CHORDS SIZE				LUMBER										DESCR.			
A - B 2x4 DRY				No.2										SPF			
B - D 2x4 DRY				2100F 1.8E										SPF			
D - F 2x4 DRY				2100F 1.8E										SPF			
F - H 2x4 DRY				2100F 1.8E										SPF			
H - I 2x4 DRY				No.2										SPF			
S - A 2x4 DRY				No.2										SPF			
K - I 2x4 DRY				No.2										SPF			
T - P 2x4 DRY				No.2										SPF			
P - N 2x4 DRY				No.2										SPF			
N - J 2x4 DRY				No.2										SPF			
ALL WEBS 2x3 DRY				No.2										SPF			
EXCEPT																	
DRY: SEASONED LUMBER.																	
PLATES (table is in inches)																	
JT		TYPE		PLATES		W		LEN		Y		X					
A		TMVW+p		MT20		4.0		6.0		1.50		2.00					
B		TTWW-h		MT20		8.0		9.0		Edge		2.75					
C		TMWW-t		MT20		4.0		4.0									
D		TS-t		MT20		3.0		8.0									
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-h		MT20		8.0		9.0		Edge		2.75					
I		TMVW+p		MT20		4.0		6.0		1.50		2.00					
K		BMV1+p		MT20		2.0		4.0		2.25		1.00					
L		BMWW-t		MT20		4.0		4.0		2.00		1.75					
M		BMWW-t		MT20		4.0		6.0		1.75		2.50					
N		BS-t		MT20		3.0		6.0									
O		BMWWW-t		MT20		5.0		6.0									
P		BS-t		MT20		3.0		6.0									
Q		BMWW-t		MT20		4.0		6.0		1.75		2.50					
R		BMWW-t		MT20		4.0		4.0		2.00		1.75					
S		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																	
																	
BEARINGS																	
FACTORED MAXIMUM FACTORED INPUT REQRD																	
GROSS REACTION GROSS REACTION BRG BRG																	
JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX																	
S 2030 0 2030 0 0 5-8 3-0																	
K 2030 0 2030 0 0 5-8 3-0																	
UNFACTORED REACTIONS																	
1ST LCASE MAX./MIN. COMPONENT REACTIONS																	
JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL																	
S 1447 883 / 0 0 / 0 0 / 0 564 / 0 0 / 0																	
K 1447 883 / 0 0 / 0 0 / 0 564 / 0 0 / 0																	
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) S, K																	
BRACING																	
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.16 FT.																	
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.																	
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.																	
LOADING																	
TOTAL LOAD CASES: (4)																	
CHORDS WEBS																	
MEMB. MAX. FACTORED FORCE (LBS) VERT. LOAD LC1 MAX (PLF) CSI (LC) MAX. UNBRAC LENGTH MEMB. MAX. FACTORED FORCE (LBS) MAX CSI (LC)																	
FR-TO FROM TO FR-TO																	
A- B -1614 / 0 -78.0 -78.0 0.21 (1) 5.02 R- B -318 / 0 0.22 (1)																	
B- C -2566 / 0 -78.0 -78.0 0.68 (1) 4.48 B- Q 0 / 2018 0.45 (1)																	
C- D -3036 / 0 -78.0 -78.0 0.74 (1) 4.16 Q- C -1065 / 0 0.73 (1)																	
D- E -3036 / 0 -78.0 -78.0 0.74 (1) 4.16 C- O 0 / 593 0.13 (1)																	
E- F -3036 / 0 -78.0 -78.0 0.74 (1) 4.16 O- E -578 / 0 0.39 (1)																	
F- G -3036 / 0 -78.0 -78.0 0.74 (1) 4.16 O- G 0 / 593 0.13 (1)																	
G- H -2566 / 0 -78.0 -78.0 0.68 (1) 4.48 M- G -1065 / 0 0.73 (1)																	
H- I -1614 / 0 -78.0 -78.0 0.21 (1) 5.02 M- H 0 / 2018 0.45 (1)																	
S- A -1873 / 0 0.0 0.0 0.22 (1) 6.13 L- H -318 / 0 0.22 (1)																	
K- I -1873 / 0 0.0 0.0 0.22 (1) 6.13 A- R 0 / 1060 0.24 (1)																	
L- I 0 / 1060 0.24 (1)																	
T- S 0 / 0 -96.5 -96.5 0.16 (1) 10.00																	
S- R 0 / 0 -18.5 -18.5 0.18 (4) 10.00																	
R- Q 0 / 956 -18.5 -18.5 0.33 (4) 10.00																	
Q- P 0 / 2566 -18.5 -18.5 0.54 (1) 10.00																	
P- O 0 / 2566 -18.5 -18.5 0.54 (1) 10.00																	
O- N 0 / 2566 -18.5 -18.5 0.54 (1) 10.00																	
N- M 0 / 2566 -18.5 -18.5 0.54 (1) 10.00																	
M- L 0 / 956 -18.5 -18.5 0.33 (4) 10.00																	
L- K 0 / 0 -18.5 -18.5 0.18 (4) 10.00																	
K- J 0 / 0 -96.5 -96.5 0.16 (1) 10.00																	
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																	
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 (1.30")																	
CALCULATED VERT. DEFL.(LL) = L/999 (0.16")																	
ALLOWABLE DEFL.(TL)= L/360 (1.30")																	
CALCULATED VERT. DEFL.(TL) = L/999 (0.33")																	
CANTILEVER DEFLECTION:																	
ALLOWABLE DEFL.(LL)= L/120 (0.19")																	
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")																	
ALLOWABLE DEFL.(TL)= L/120 (0.19")																	
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")																	
CSI: TC=0.74/1.00 (E-G:1) , BC=0.54/1.00 (O-Q:1) , WB=0.73/1.00 (G-M:1) , SSI=0.30/1.00 (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= 0.90 (Q) (INPUT = 0.90)																	
JSI METAL= 0.84 (P) (INPUT = 1.00)																	

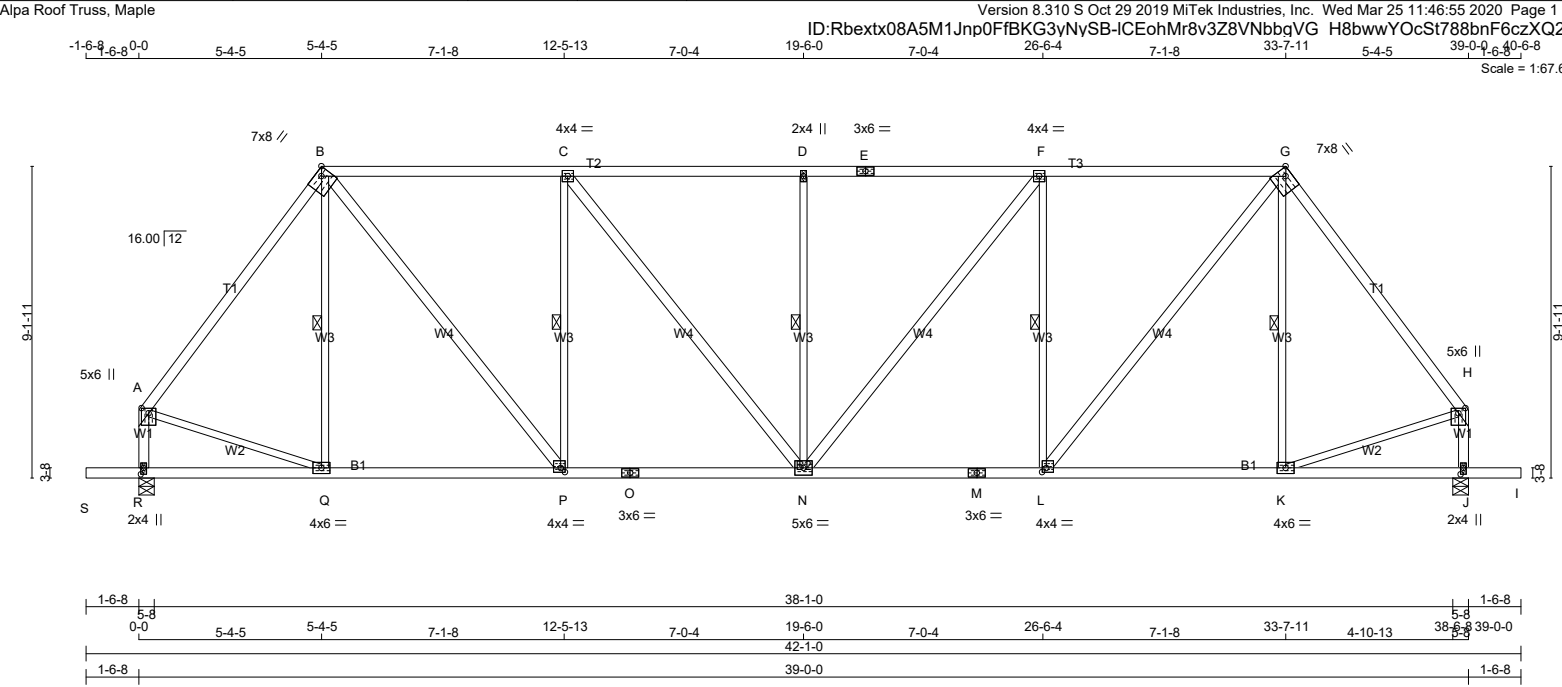
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CHORDS				WEBS			
MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. LOCS1 (LC)	MAX. UNBRAC (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO	CSI (LC)	LENGTH	FR-TO		
A-B	-1657 / 0	-78.0	-78.0 0.37 (1)	4.82	Q-B	-232 / 0	0.26 (1)
B-C	-2152 / 0	-78.0	-78.0 0.72 (1)	4.36	B-P	0 / 1633	0.26 (1)
C-D	-2490 / 0	-78.0	-78.0 0.76 (1)	4.09	P-C	-999 / 0	0.38 (1)
D-E	-2490 / 0	-78.0	-78.0 0.76 (1)	4.09	C-N	0 / 478	0.08 (1)
E-F	-2490 / 0	-78.0	-78.0 0.76 (1)	4.09	N-D	-541 / 0	0.62 (1)
F-G	-2152 / 0	-78.0	-78.0 0.72 (1)	4.36	N-F	0 / 478	0.08 (1)
G-H	-1657 / 0	-78.0	-78.0 0.37 (1)	4.82	L-F	-999 / 0	0.38 (1)
R-A	-1855 / 0	0.0	0.0 0.21 (1)	6.15	L-G	0 / 1633	0.26 (1)
J-H	-1855 / 0	0.0	0.0 0.21 (1)	6.15	K-G	-232 / 0	0.26 (1)
					A-Q	0 / 1051	0.24 (1)
					K-H	0 / 1051	0.24 (1)
S-R	0 / 0	-96.5	-96.5 0.16 (1)	10.00			
R-Q	0 / 0	-18.5	-18.5 0.16 (4)	10.00			
Q-P	0 / 986	-18.5	-18.5 0.31 (4)	10.00			
P-O	0 / 2152	-18.5	-18.5 0.46 (1)	10.00			
O-N	0 / 2152	-18.5	-18.5 0.46 (1)	10.00			
N-M	0 / 2152	-18.5	-18.5 0.46 (1)	10.00			
M-L	0 / 2152	-18.5	-18.5 0.46 (1)	10.00			
L-K	0 / 986	-18.5	-18.5 0.31 (4)	10.00			
K-J	0 / 0	-18.5	-18.5 0.16 (4)	10.00			
J-I	0 / 0	-96.5	-96.5 0.16 (1)	10.00			

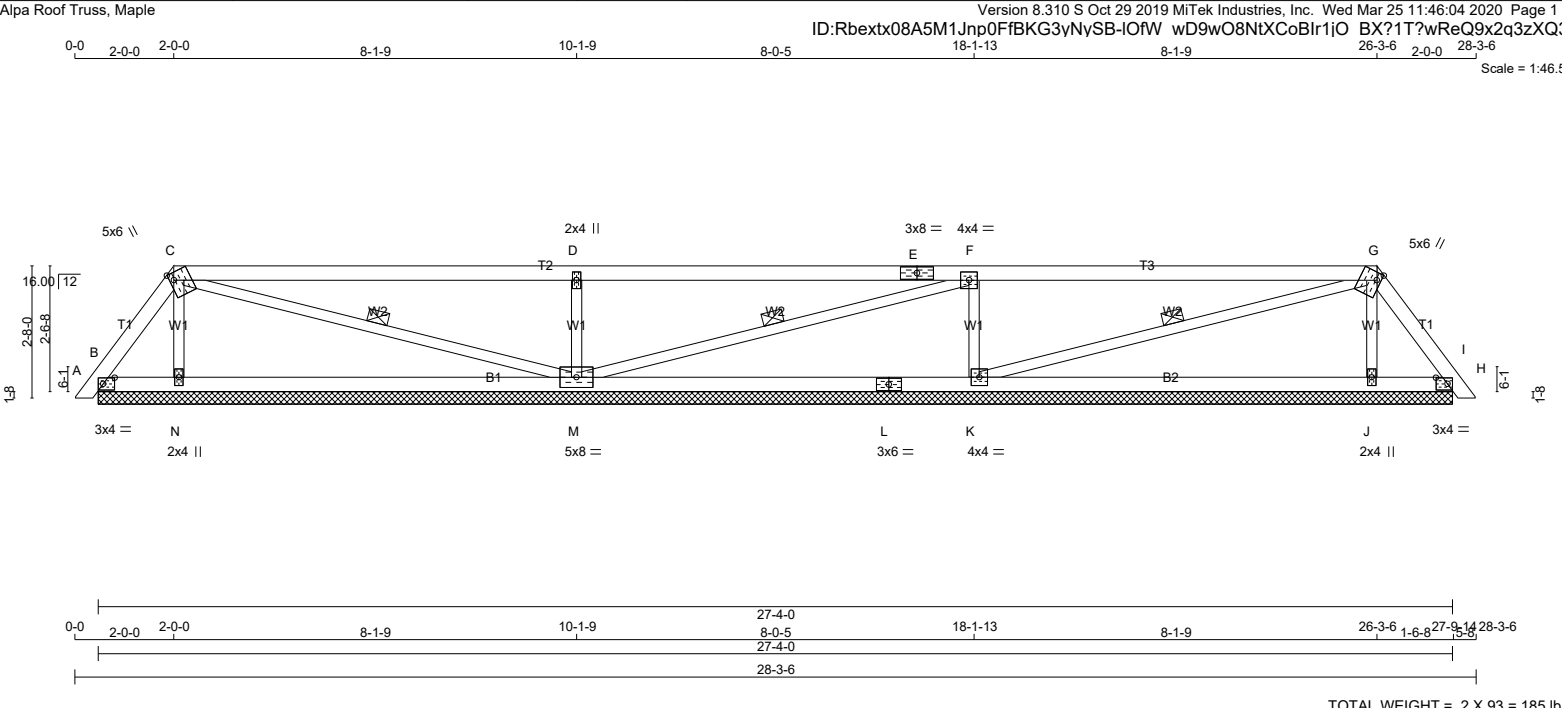
JSI GRIP= 0.88 (A) (INPUT = 0.90)
JSI METAL= 0.69 (O) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318466	H4	13	1	TRUSS DESC. JT 45147	E20035548



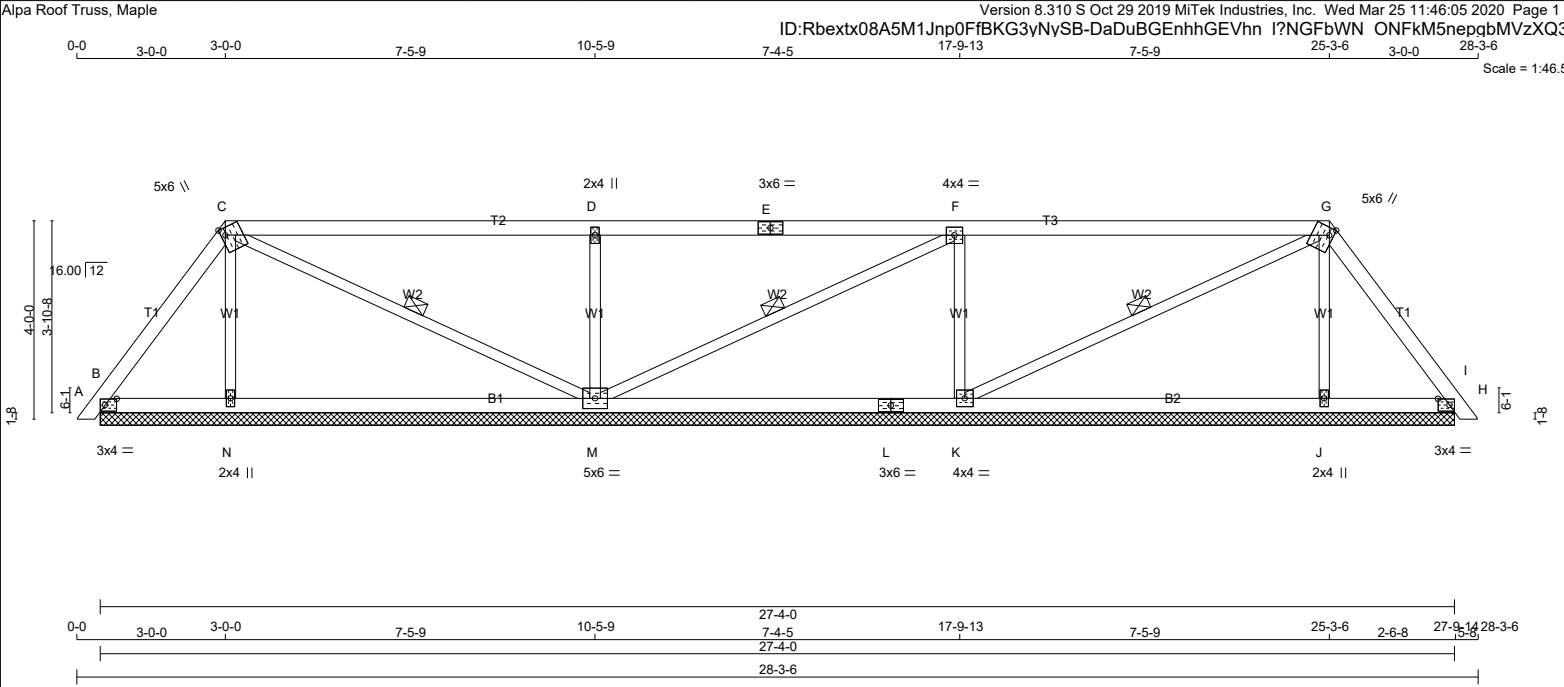
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESC.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA																																																																																																																																	
A - B 2x4 DRY No.2 SPF B - E 2x4 DRY No.2 SPF E - G 2x4 DRY No.2 SPF G - H 2x4 DRY No.2 SPF R - A 2x4 DRY No.2 SPF J - H 2x4 DRY No.2 SPF S - O 2x4 DRY No.2 SPF O - M 2x4 DRY No.2 SPF M - I 2x4 DRY No.2 SPF				BEARINGS <table><tr><td></td><td colspan="2">FACTORED GROSS REACTION</td><td colspan="2">MAXIMUM FACTORED GROSS REACTION</td><td colspan="2">INPUT BRG</td><td colspan="2">REQRD BRG</td></tr><tr><td>JT</td><td>VERT</td><td>HORZ</td><td>DOWN</td><td>HORZ</td><td>UPLIFT</td><td>IN-SX</td><td>IN-SX</td><td></td></tr><tr><td>R</td><td>2136</td><td>0</td><td>2136</td><td>0</td><td>0</td><td>5-8</td><td>3-4</td><td></td></tr><tr><td>J</td><td>2136</td><td>0</td><td>2136</td><td>0</td><td>0</td><td>5-8</td><td>3-4</td><td></td></tr></table>											FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG		JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		R	2136	0	2136	0	0	5-8	3-4		J	2136	0	2136	0	0	5-8	3-4		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																																																																																													
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DRY: SEASONED LUMBER.				BRACING FOR SECTION B-G, MAX. PURLIN SPACING = 2.00 FT. FOR OTHER SECTIONS, TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.68 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 B-Q, C-P, D-N, F-L, G-K. END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW										LOADING TOTAL LOAD CASES: (4) <table><tr><td colspan="2">CHORDS</td><td colspan="2">WEBS</td></tr><tr><td>MEMB.</td><td>MAX. FACTORED FORCE (LBS)</td><td>FACTORED VERT. LOAD (PLF)</td><td>MAX. UNBRACED LENGTH</td><td>MEMB.</td><td>MAX. FACTORED FORCE (LBS)</td><td>MAX. UNBRACED LENGTH</td></tr><tr><td>FR-TO</td><td></td><td>FROM TO</td><td></td><td>FR-TO</td><td></td><td></td></tr><tr><td>A-B</td><td>-1781 / 0</td><td>-78.0 -78.0 0.43 (1)</td><td>4.68</td><td>Q-B</td><td>-185 / 6</td><td>0.10 (1)</td></tr><tr><td>B-C</td><td>-1992 / 0</td><td>-85.5 -85.5 0.61 (1)</td><td>2.00</td><td>B-P</td><td>0 / 1479</td><td>0.24 (1)</td></tr><tr><td>C-D</td><td>-2261 / 0</td><td>-85.5 -85.5 0.61 (1)</td><td>2.00</td><td>P-C</td><td>-1018 / 0</td><td>0.55 (1)</td></tr><tr><td>D-E</td><td>-2261 / 0</td><td>-85.5 -85.5 0.61 (1)</td><td>2.00</td><td>C-N</td><td>0 / 433</td><td>0.07 (1)</td></tr><tr><td>E-F</td><td>-2261 / 0</td><td>-85.5 -85.5 0.61 (1)</td><td>2.00</td><td>N-D</td><td>-553 / 0</td><td>0.30 (1)</td></tr><tr><td>F-G</td><td>-1992 / 0</td><td>-85.5 -85.5 0.61 (1)</td><td>2.00</td><td>N-F</td><td>0 / 433</td><td>0.07 (1)</td></tr><tr><td>G-H</td><td>-1781 / 0</td><td>-78.0 -78.0 0.43 (1)</td><td>4.68</td><td>L-F</td><td>-1018 / 0</td><td>0.55 (1)</td></tr><tr><td>R-A</td><td>-1950 / 0</td><td>0.0 0.0 0.22 (1)</td><td>6.03</td><td>L-G</td><td>0 / 1479</td><td>0.24 (1)</td></tr><tr><td>J-H</td><td>-1950 / 0</td><td>0.0 0.0 0.22 (1)</td><td>6.03</td><td>K-G</td><td>-185 / 6</td><td>0.10 (1)</td></tr><tr><td></td><td></td><td></td><td></td><td>A-Q</td><td>0 / 1109</td><td>0.25 (1)</td></tr><tr><td></td><td></td><td></td><td></td><td>K-H</td><td>0 / 1109</td><td>0.25 (1)</td></tr></table>				CHORDS		WEBS		MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	FR-TO		FROM TO		FR-TO			A-B	-1781 / 0	-78.0 -78.0 0.43 (1)	4.68	Q-B	-185 / 6	0.10 (1)	B-C	-1992 / 0	-85.5 -85.5 0.61 (1)	2.00	B-P	0 / 1479	0.24 (1)	C-D	-2261 / 0	-85.5 -85.5 0.61 (1)	2.00	P-C	-1018 / 0	0.55 (1)	D-E	-2261 / 0	-85.5 -85.5 0.61 (1)	2.00	C-N	0 / 433	0.07 (1)	E-F	-2261 / 0	-85.5 -85.5 0.61 (1)	2.00	N-D	-553 / 0	0.30 (1)	F-G	-1992 / 0	-85.5 -85.5 0.61 (1)	2.00	N-F	0 / 433	0.07 (1)	G-H	-1781 / 0	-78.0 -78.0 0.43 (1)	4.68	L-F	-1018 / 0	0.55 (1)	R-A	-1950 / 0	0.0 0.0 0.22 (1)	6.03	L-G	0 / 1479	0.24 (1)	J-H	-1950 / 0	0.0 0.0 0.22 (1)	6.03	K-G	-185 / 6	0.10 (1)					A-Q	0 / 1109	0.25 (1)					K-H	0 / 1109	0.25 (1)																															
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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318466	H5P	2	1	TRUSS DESC. JT 45147	E20035549



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 G - I 2x4 DRY No.2 SPF B - L 2x4 DRY No.2 SPF L - H 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF DRY: SEASONED LUMBER.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQRD JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX B 119 0 119 0 -6 27-4-0 (11-4-8)2-15 N 374 0 374 0 0 27-4-0 (11-4-8)2-15 M 860 0 860 0 0 27-4-0 (11-4-8)2-15 K 842 0 842 0 0 27-4-0 (11-4-8)2-15 J 365 0 365 0 0 27-4-0 (11-4-8)2-15 H 132 0 132 0 -4 27-4-0 (11-4-8)2-15 VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH PROVIDE ANCHORAGE AT BEARING JOINT B FOR 150 LBS FACTORED UPLIFT PROVIDE ANCHORAGE AT BEARING JOINT H FOR 150 LBS FACTORED UPLIFT UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL B 79 83 / 0 0 / 0 0 / 0 0 / -4 0 / 0 N 273 127 / 0 0 / 0 0 / 0 0 / 0 146 / 0 0 / 0 M 612 382 / 0 0 / 0 0 / 0 0 / 0 230 / 0 0 / 0 K 599 372 / 0 0 / 0 0 / 0 0 / 0 227 / 0 0 / 0 J 268 123 / 0 0 / 0 0 / 0 0 / 0 145 / 0 0 / 0 H 87 90 / 0 0 / 0 0 / 0 0 / 0 0 / -3 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, N, M, K, J, H BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. 1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-M, F-M, G-K. LOADING TOTAL LOAD CASES: (4) CHORDS MAX. FACTORED WEBS MAX. FACTORED MEMB. FORCE (LBS) VERT. LOAD (PLF) MAX. CSI (LC) UNBRAC LENGTH FR-TO MEMB. FORCE (LBS) MAX. CSI (LC) FR-TO FROM TO A-B 0 / 10 -78.0 -78.0 0.01 (1) 10.00 N-C -237 / 0 0.04 (1) B-C -82 / 0 -78.0 -78.0 0.03 (1) 6.25 C-M -38 / 0 0.02 (1) C-D 0 / 1 -78.0 -78.0 0.69 (1) 10.00 M-D -692 / 0 0.11 (1) D-E 0 / 0 -78.0 -78.0 0.69 (1) 10.00 M-F -26 / 0 0.01 (1) E-F 0 / 0 -78.0 -78.0 0.69 (1) 10.00 K-F -685 / 0 0.11 (1) F-G -23 / 0 -78.0 -78.0 0.69 (1) 6.25 K-G -22 / 0 0.01 (1) G-H -98 / 0 -78.0 -78.0 0.03 (1) 6.25 J-G -228 / 0 0.04 (1) H-I 0 / 10 -78.0 -78.0 0.01 (1) 10.00 B-N 0 / 47 -18.5 -18.5 0.20 (4) 10.00 N-M 0 / 36 -18.5 -18.5 0.24 (4) 10.00 M-L 0 / 24 -18.5 -18.5 0.24 (4) 10.00 L-K 0 / 24 -18.5 -18.5 0.24 (4) 10.00 K-J 0 / 45 -18.5 -18.5 0.24 (4) 10.00 J-H 0 / 56 -18.5 -18.5 0.20 (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 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 CSI: TC=0.69/1.00 (F-G:1) , BC=0.24/1.00 (J-K:4) , WB=0.11/1.00 (D-M:1) , SSI=0.30/1.00 (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= 0.79 (K) (INPUT = 0.90) JSI METAL= 0.54 (E) (INPUT = 1.00)			
PLATES (table is in inches) JT TYPE PLATES W LEN Y X B TMB1-I MT20 3.0 4.0 1.50 2.75 C TTWW+m MT20 5.0 6.0 1.75 1.00 D TMW+w MT20 2.0 4.0 E TS-t MT20 3.0 8.0 F TMWW-t MT20 4.0 4.0 G TTWW+m MT20 5.0 6.0 1.75 1.00 H TMB1-I MT20 3.0 4.0 1.50 2.75 J BMW1+w MT20 2.0 4.0 K BMWW1-t MT20 4.0 4.0 L BS-t MT20 3.0 6.0 M BMWW1-t MT20 5.0 8.0 N BMW1+w MT20 2.0 4.0				LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2							

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318466	H6P	2	1	TRUSS DESC. JT 45147	E20035550



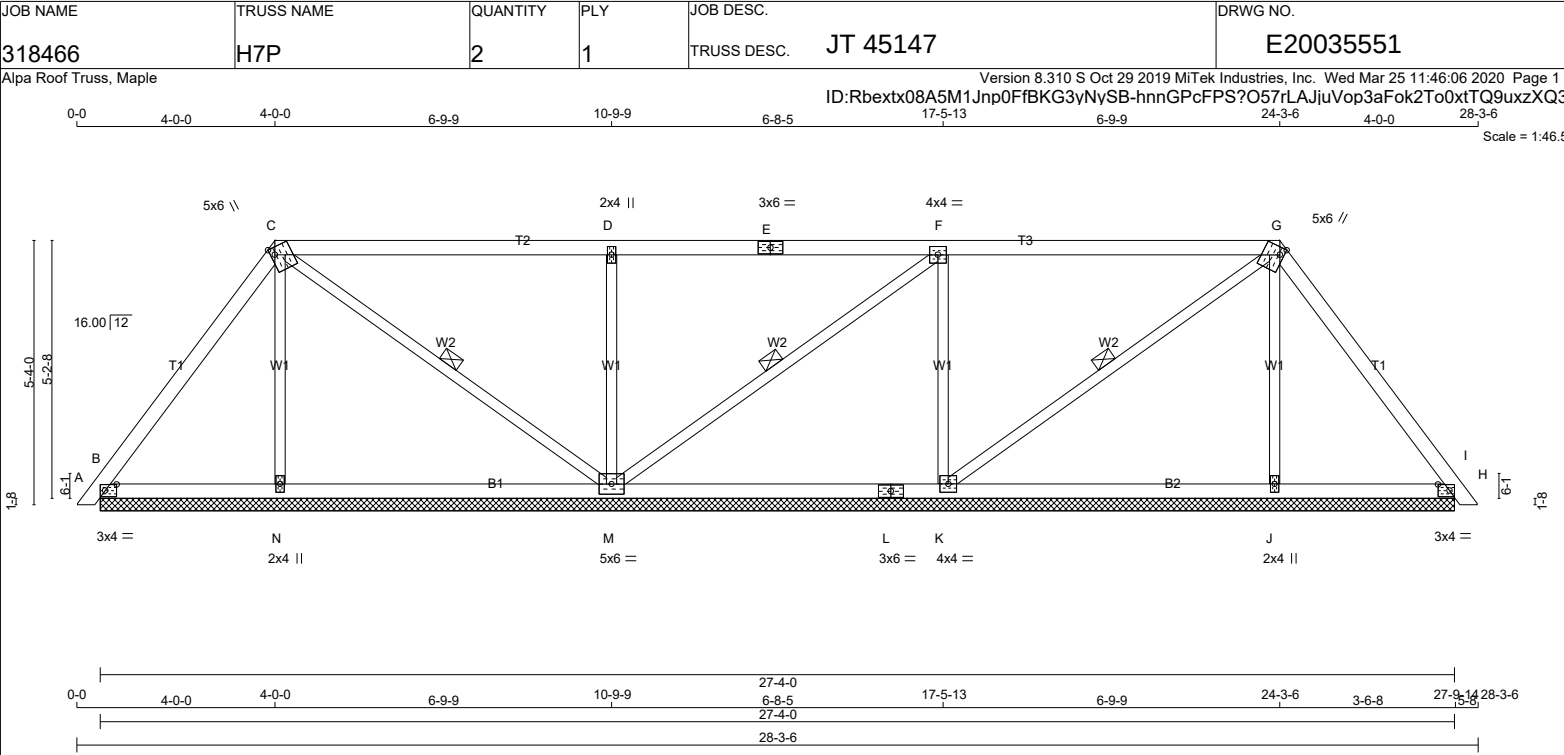
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - C 2x4 DRY No.2 SPF C - E 2x4 DRY No.2 SPF E - G 2x4 DRY No.2 SPF G - I 2x4 DRY No.2 SPF B - L 2x4 DRY No.2 SPF L - H 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF DRY: SEASONED LUMBER.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><th rowspan="2">JT</th><th colspan="2">FACTORED GROSS REACTION</th><th colspan="2">MAXIMUM FACTORED GROSS REACTION</th><th rowspan="2">INPUT BRG</th><th rowspan="2">REQRD BRG</th></tr><tr><th>VERT</th><th>HORZ</th><th>DOWN</th><th>HORZ</th></tr><tr><td>B</td><td>200</td><td>0</td><td>200</td><td>0</td><td>27-4-0 (11-4-8)10-10</td><td></td></tr><tr><td>N</td><td>341</td><td>0</td><td>341</td><td>0</td><td>27-4-0 (11-4-8)10-10</td><td></td></tr><tr><td>M</td><td>833</td><td>0</td><td>833</td><td>0</td><td>27-4-0 (11-4-8)10-10</td><td></td></tr><tr><td>K</td><td>759</td><td>0</td><td>759</td><td>0</td><td>27-4-0 (11-4-8)10-10</td><td></td></tr><tr><td>J</td><td>331</td><td>0</td><td>331</td><td>0</td><td>27-4-0 (11-4-8)10-10</td><td></td></tr><tr><td>H</td><td>227</td><td>0</td><td>227</td><td>0</td><td>27-4-0 (11-4-8)10-10</td><td></td></tr></table> VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH UNFACTORED REACTIONS <table><tr><th rowspan="2">JT</th><th rowspan="2">1ST LCASE COMBINED</th><th colspan="6">MAX./MIN. COMPONENT REACTIONS</th></tr><tr><th>SNOW</th><th>LIVE</th><th>PERM.LIVE</th><th>WIND</th><th>DEAD</th><th>SOIL</th></tr><tr><td>B</td><td>138</td><td>108 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>31 / 0</td><td>0 / 0</td></tr><tr><td>N</td><td>248</td><td>122 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>126 / 0</td><td>0 / 0</td></tr><tr><td>M</td><td>592</td><td>373 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>218 / 0</td><td>0 / 0</td></tr><tr><td>K</td><td>541</td><td>334 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>207 / 0</td><td>0 / 0</td></tr><tr><td>J</td><td>242</td><td>117 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>124 / 0</td><td>0 / 0</td></tr><tr><td>H</td><td>157</td><td>122 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>35 / 0</td><td>0 / 0</td></tr></table> BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, N, M, K, J, H BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED. 1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-M, F-M, G-K. 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>MAX. FACTORED CSI (LC)</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>MAX. FACTORED CSI (LC)</th><th></th></tr><tr><td>FR-TO</td><td></td><td>FROM TO</td><td></td><td>FR-TO</td><td></td><td></td><td></td></tr><tr><td>A-B</td><td>0 / 10</td><td>-78.0 -78.0</td><td>0.01 (1)</td><td>N-C</td><td>-227 / 0</td><td>0.05 (1)</td><td></td></tr><tr><td>B-C</td><td>-91 / 0</td><td>-78.0 -78.0</td><td>0.08 (1)</td><td>C-M</td><td>-71 / 0</td><td>0.03 (1)</td><td></td></tr><tr><td>C-D</td><td>0 / 19</td><td>-78.0 -78.0</td><td>0.59 (1)</td><td>M-D</td><td>-635 / 0</td><td>0.15 (1)</td><td></td></tr><tr><td>D-E</td><td>0 / 18</td><td>-78.0 -78.0</td><td>0.59 (1)</td><td>M-F</td><td>-63 / 0</td><td>0.03 (1)</td><td></td></tr><tr><td>E-F</td><td>0 / 18</td><td>-78.0 -78.0</td><td>0.59 (1)</td><td>K-F</td><td>-607 / 0</td><td>0.14 (1)</td><td></td></tr><tr><td>F-G</td><td>-38 / 0</td><td>-78.0 -78.0</td><td>0.59 (1)</td><td>K-G</td><td>-30 / 0</td><td>0.01 (1)</td><td></td></tr><tr><td>G-H</td><td>-125 / 0</td><td>-78.0 -78.0</td><td>0.09 (1)</td><td>J-G</td><td>-218 / 0</td><td>0.05 (1)</td><td></td></tr><tr><td>H-I</td><td>0 / 10</td><td>-78.0 -78.0</td><td>0.01 (1)</td><td></td><td></td><td></td><td></td></tr><tr><td>B-N</td><td>0 / 53</td><td>-18.5 -18.5</td><td>0.15 (4)</td><td></td><td></td><td></td><td></td></tr><tr><td>N-M</td><td>0 / 46</td><td>-18.5 -18.5</td><td>0.21 (4)</td><td></td><td></td><td></td><td></td></tr><tr><td>M-L</td><td>0 / 39</td><td>-18.5 -18.5</td><td>0.21 (4)</td><td></td><td></td><td></td><td></td></tr><tr><td>L-K</td><td>0 / 39</td><td>-18.5 -18.5</td><td>0.21 (4)</td><td></td><td></td><td></td><td></td></tr><tr><td>K-J</td><td>0 / 66</td><td>-18.5 -18.5</td><td>0.21 (4)</td><td></td><td></td><td></td><td></td></tr><tr><td>J-H</td><td>0 / 73</td><td>-18.5 -18.5</td><td>0.15 (4)</td><td></td><td></td><td></td><td></td></tr></table>										JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG	VERT	HORZ	DOWN	HORZ	B	200	0	200	0	27-4-0 (11-4-8)10-10		N	341	0	341	0	27-4-0 (11-4-8)10-10		M	833	0	833	0	27-4-0 (11-4-8)10-10		K	759	0	759	0	27-4-0 (11-4-8)10-10		J	331	0	331	0	27-4-0 (11-4-8)10-10		H	227	0	227	0	27-4-0 (11-4-8)10-10		JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS						SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	B	138	108 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0	N	248	122 / 0	0 / 0	0 / 0	0 / 0	126 / 0	0 / 0	M	592	373 / 0	0 / 0	0 / 0	0 / 0	218 / 0	0 / 0	K	541	334 / 0	0 / 0	0 / 0	0 / 0	207 / 0	0 / 0	J	242	117 / 0	0 / 0	0 / 0	0 / 0	124 / 0	0 / 0	H	157	122 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0	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 / 10	-78.0 -78.0	0.01 (1)	N-C	-227 / 0	0.05 (1)		B-C	-91 / 0	-78.0 -78.0	0.08 (1)	C-M	-71 / 0	0.03 (1)		C-D	0 / 19	-78.0 -78.0	0.59 (1)	M-D	-635 / 0	0.15 (1)		D-E	0 / 18	-78.0 -78.0	0.59 (1)	M-F	-63 / 0	0.03 (1)		E-F	0 / 18	-78.0 -78.0	0.59 (1)	K-F	-607 / 0	0.14 (1)		F-G	-38 / 0	-78.0 -78.0	0.59 (1)	K-G	-30 / 0	0.01 (1)		G-H	-125 / 0	-78.0 -78.0	0.09 (1)	J-G	-218 / 0	0.05 (1)		H-I	0 / 10	-78.0 -78.0	0.01 (1)					B-N	0 / 53	-18.5 -18.5	0.15 (4)					N-M	0 / 46	-18.5 -18.5	0.21 (4)					M-L	0 / 39	-18.5 -18.5	0.21 (4)					L-K	0 / 39	-18.5 -18.5	0.21 (4)					K-J	0 / 66	-18.5 -18.5	0.21 (4)					J-H	0 / 73	-18.5 -18.5	0.15 (4)					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 CSI: TC=0.59/1.00 (D-F:1), BC=0.21/1.00 (J-K:4), WB=0.15/1.00 (D-M:1), SSI=0.27/1.00 (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= 0.75 (M) (INPUT = 0.90) JSI METAL= 0.27 (E) (INPUT = 1.00)				
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG																																																																																																																																																																																																																																																																								
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N	341	0	341	0	27-4-0 (11-4-8)10-10																																																																																																																																																																																																																																																																									
M	833	0	833	0	27-4-0 (11-4-8)10-10																																																																																																																																																																																																																																																																									
K	759	0	759	0	27-4-0 (11-4-8)10-10																																																																																																																																																																																																																																																																									
J	331	0	331	0	27-4-0 (11-4-8)10-10																																																																																																																																																																																																																																																																									
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K	541	334 / 0	0 / 0	0 / 0	0 / 0	207 / 0	0 / 0																																																																																																																																																																																																																																																																							
J	242	117 / 0	0 / 0	0 / 0	0 / 0	124 / 0	0 / 0																																																																																																																																																																																																																																																																							
H	157	122 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0																																																																																																																																																																																																																																																																							
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LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



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





LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
G - I	2x4	DRY	No.2
B - L	2x4	DRY	No.2
L - H	2x4	DRY	No.2

ALL WEBS 2x3 DRY

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMB1-I	MT20	3.0	4.0	1.50	2.75
C TTWW+m	MT20	5.0	6.0	1.75	1.00
D TMW+w	MT20	2.0	4.0		
E TS-t	MT20	3.0	6.0		
F TMWW-t	MT20	4.0	4.0		
G TTWW+m	MT20	5.0	6.0	1.75	1.00
H TMB1-I	MT20	3.0	4.0	1.50	2.75
J BMW1+w	MT20	2.0	4.0		
K BMWW1-t	MT20	4.0	4.0		
L BS-t	MT20	3.0	6.0		
M BMWWW1-t	MT20	5.0	6.0		
N BMW1+w	MT20	2.0	4.0		

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
B	258	0	258	0
N	321	0	321	0
M	831	0	831	0
K	665	0	665	0
J	315	0	315	0
H	303	0	303	0

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS							
	1ST LCASE	MAX / MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	180	129 / 0	0 / 0	0 / 0	0 / 0	52 / 0	0 / 0
N	234	115 / 0	0 / 0	0 / 0	0 / 0	119 / 0	0 / 0
M	589	379 / 0	0 / 0	0 / 0	0 / 0	209 / 0	0 / 0
K	474	290 / 0	0 / 0	0 / 0	0 / 0	184 / 0	0 / 0
J	230	112 / 0	0 / 0	0 / 0	0 / 0	118 / 0	0 / 0
H	211	153 / 0	0 / 0	0 / 0	0 / 0	59 / 0	0 / 0

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

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

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-M, F-M, G-K.

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX. CSI (LC)	
FR-TO		FROM	TO	UNBRAC LENGTH	FR-TO		
A-B	0 / 10	-78.0	-78.0 0.01 (1)	10.00	N-C	-213 / 0	0.09 (1)
B-C	-92 / 0	-78.0	-78.0 0.17 (1)	6.25	C-M	-107 / 0	0.05 (1)
C-D	0 / 38	-78.0	-78.0 0.49 (1)	10.00	M-D	-578 / 0	0.23 (1)
D-E	0 / 38	-78.0	-78.0 0.49 (1)	10.00	M-F	-107 / 0	0.05 (1)
E-F	0 / 38	-78.0	-78.0 0.49 (1)	10.00	K-F	-514 / 0	0.21 (1)
F-G	-48 / 0	-78.0	-78.0 0.48 (1)	6.25	K-G	-41 / 0	0.02 (1)
G-H	-147 / 0	-78.0	-78.0 0.17 (1)	6.25	J-G	-207 / 0	0.08 (1)
H-I	0 / 10	-78.0	-78.0 0.01 (1)	10.00			
B-N	0 / 54	-18.5	-18.5 0.13 (4)	10.00			
N-M	0 / 49	-18.5	-18.5 0.17 (4)	10.00			
M-L	0 / 48	-18.5	-18.5 0.17 (4)	10.00			
L-K	0 / 48	-18.5	-18.5 0.17 (4)	10.00			
K-J	0 / 82	-18.5	-18.5 0.17 (4)	10.00			
J-H	0 / 86	-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 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

CSI: TC=0.49/1.00 (D-F:1), BC=0.17/1.00 (J-K:4), WB=0.23/1.00 (D-M:1), SSI=0.25/1.00 (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.

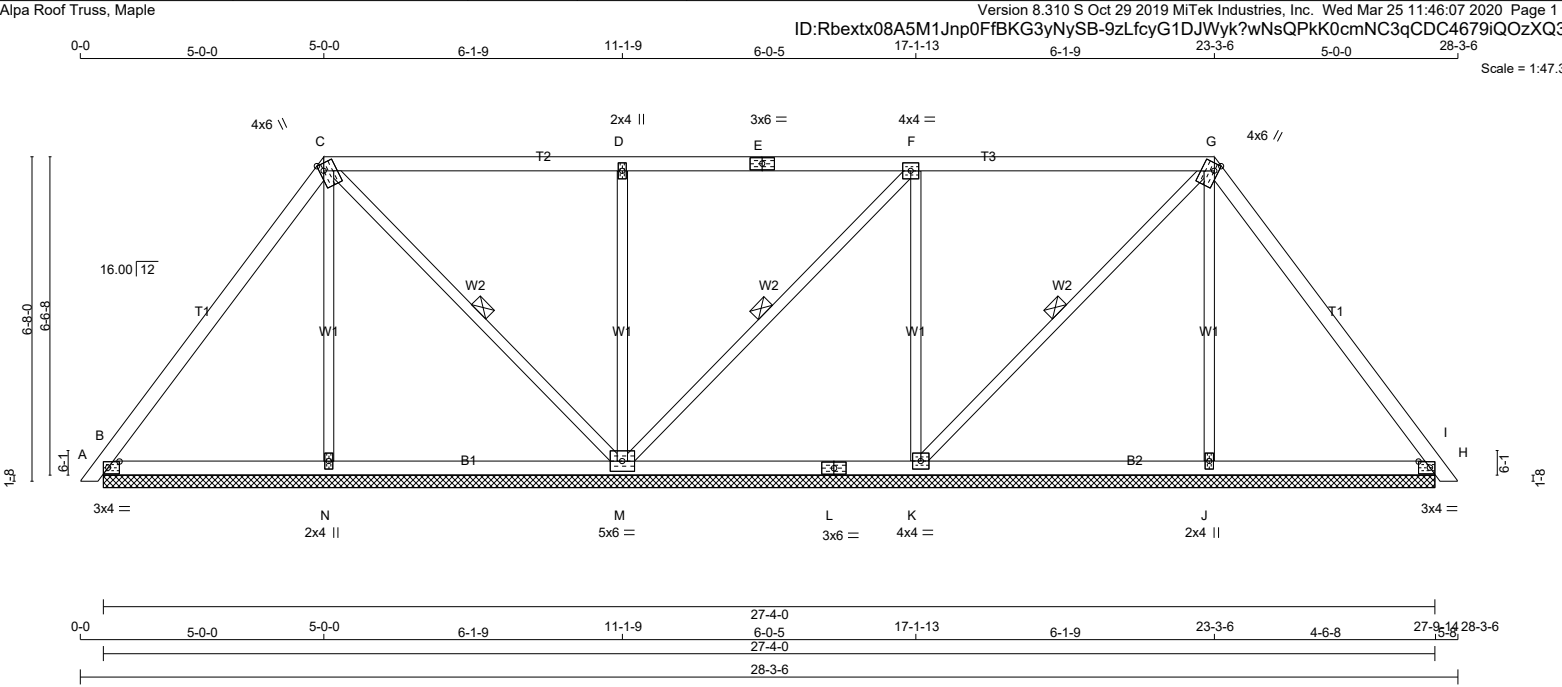
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

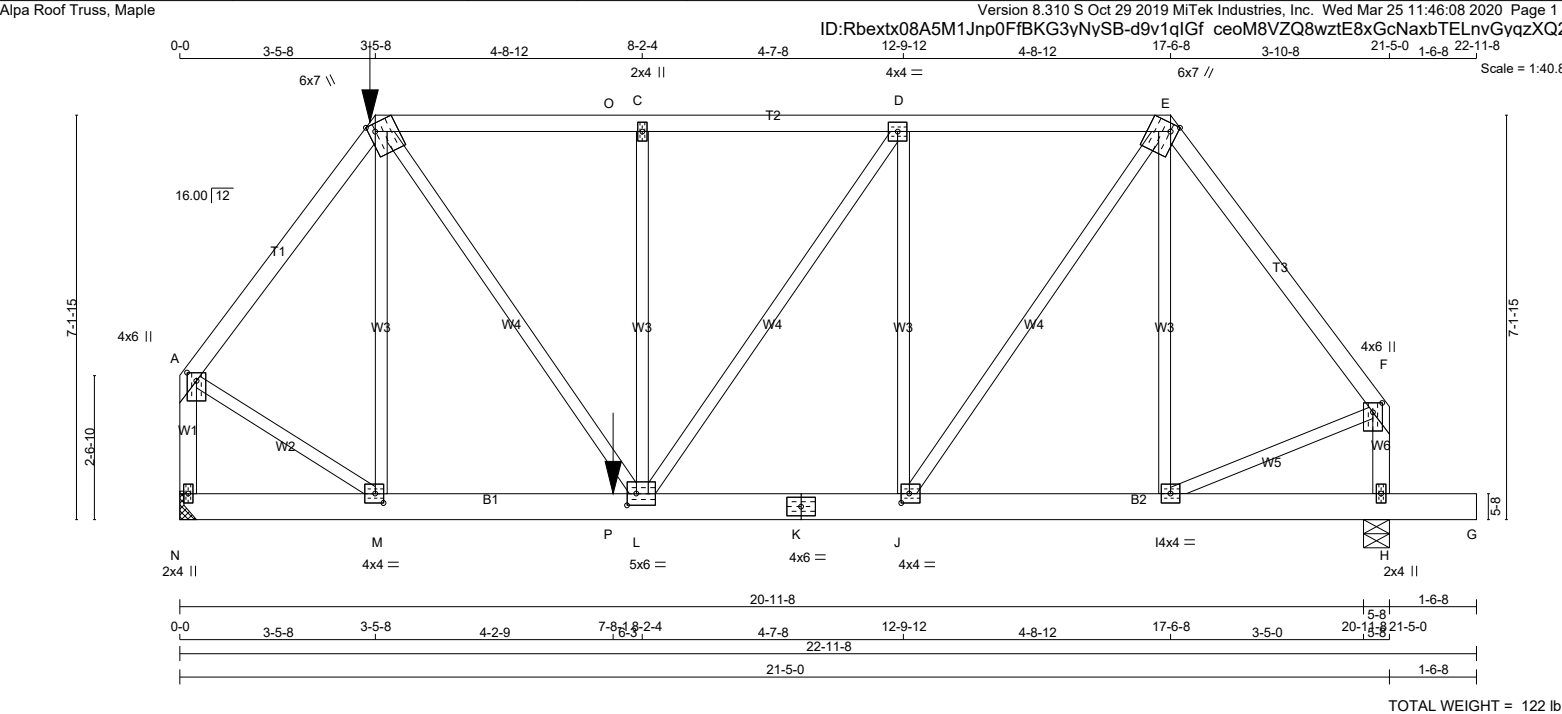
JSI GRIP= 0.62 (C) (INPUT = 0.90)
JSI METAL= 0.23 (E) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318466	H8P	3	1	TRUSS DESC. JT 45147	E20035552



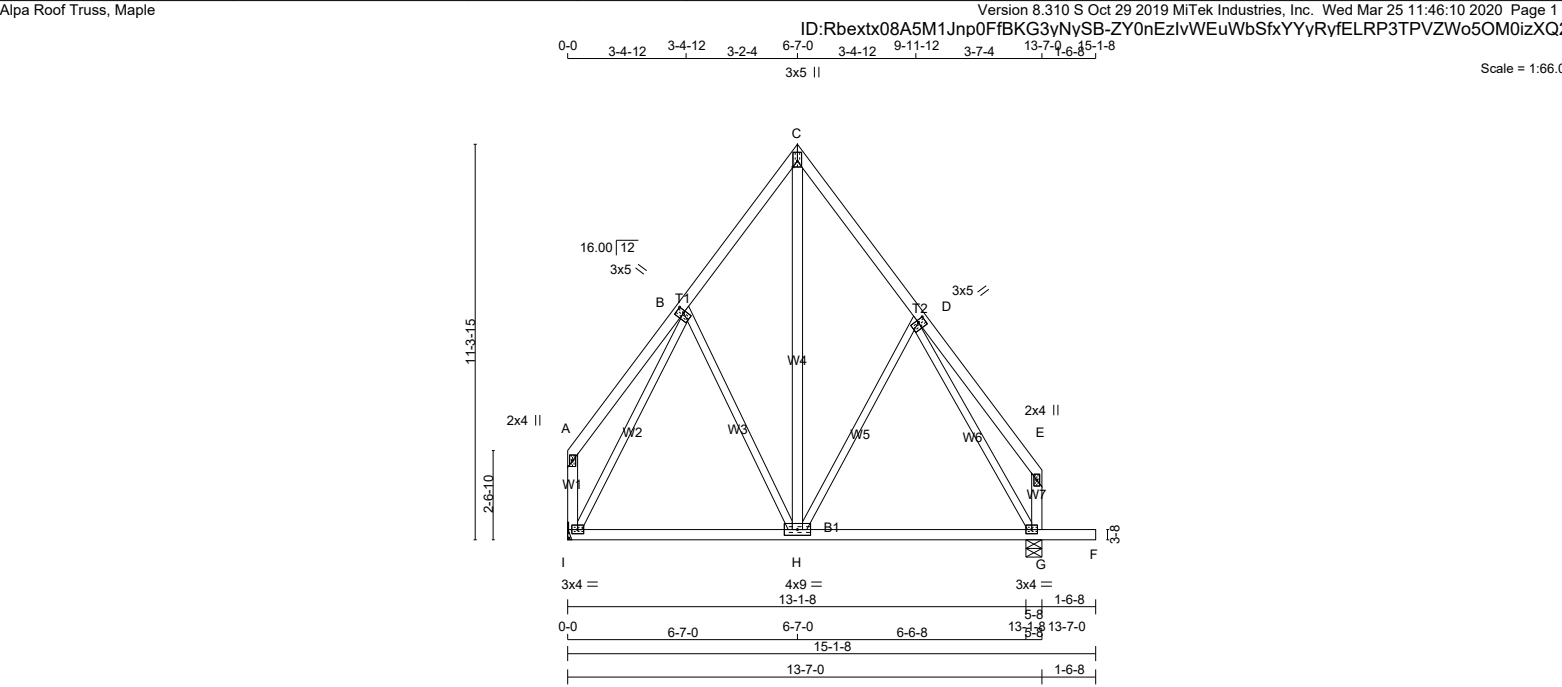
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - C 2x4 DRY No.2 SPF C - E 2x4 DRY No.2 SPF E - G 2x4 DRY No.2 SPF G - I 2x4 DRY No.2 SPF B - L 2x4 DRY No.2 SPF L - H 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF DRY: SEASONED LUMBER.							DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><th rowspan="2">JT</th><th colspan="2">FACTORED GROSS REACTION</th><th colspan="2">MAXIMUM FACTORED GROSS REACTION</th><th>INPUT BRG</th><th>REQRD BRG</th></tr><tr><th>VERT</th><th>HORZ</th><th>DOWN</th><th>HORZ</th><th>IN-SX</th><th>IN-SX</th></tr><tr><td>B</td><td>306</td><td>0</td><td>306</td><td>0</td><td>27-4-0 (12-4-0)</td><td>11-10</td></tr><tr><td>N</td><td>308</td><td>0</td><td>308</td><td>0</td><td>27-4-0 (12-4-0)</td><td>11-10</td></tr><tr><td>M</td><td>834</td><td>0</td><td>834</td><td>0</td><td>27-4-0 (12-4-0)</td><td>11-10</td></tr><tr><td>K</td><td>572</td><td>0</td><td>572</td><td>0</td><td>27-4-0 (12-4-0)</td><td>11-10</td></tr><tr><td>J</td><td>307</td><td>0</td><td>307</td><td>0</td><td>27-4-0 (12-4-0)</td><td>11-10</td></tr><tr><td>H</td><td>365</td><td>0</td><td>365</td><td>0</td><td>27-4-0 (12-4-0)</td><td>11-10</td></tr></table> VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH UNFACTORED REACTIONS <table><tr><th>JT</th><th>1ST LCASE</th><th>SNOW</th><th>LIVE</th><th>PERM.LIVE</th><th>WIND</th><th>DEAD</th><th>SOIL</th></tr><tr><td>B</td><td>215</td><td>148 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>67 / 0</td><td>0 / 0</td></tr><tr><td>N</td><td>225</td><td>107 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>118 / 0</td><td>0 / 0</td></tr><tr><td>M</td><td>590</td><td>389 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>201 / 0</td><td>0 / 0</td></tr><tr><td>K</td><td>408</td><td>248 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>160 / 0</td><td>0 / 0</td></tr><tr><td>J</td><td>224</td><td>106 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>118 / 0</td><td>0 / 0</td></tr><tr><td>H</td><td>256</td><td>179 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>76 / 0</td><td>0 / 0</td></tr></table> BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, N, M, K, J, H BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. 1 LATERAL BRACE(S) AT 1 / 2 LENGTH OF C-M, F-M, G-K. 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>MAX LC1 CSI (LC)</th><th>MAX. UNBRAC LENGTH</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>MAX LC1 CSI (LC)</th></tr><tr><td>FR-TO</td><td></td><td>FROM TO</td><td></td><td></td><td>FR-TO</td><td></td><td></td></tr><tr><td>A-B</td><td>0 / 10</td><td>-78.0 -78.0</td><td>0.01 (1)</td><td>10.00</td><td>N-C</td><td>-199 / 0</td><td>0.14 (1)</td></tr><tr><td>B-C</td><td>-87 / 0</td><td>-78.0 -78.0</td><td>0.27 (1)</td><td>6.25</td><td>C-M</td><td>-139 / 0</td><td>0.07 (1)</td></tr><tr><td>C-D</td><td>0 / 50</td><td>-78.0 -78.0</td><td>0.40 (1)</td><td>10.00</td><td>M-D</td><td>-521 / 0</td><td>0.36 (1)</td></tr><tr><td>D-E</td><td>0 / 49</td><td>-78.0 -78.0</td><td>0.40 (1)</td><td>10.00</td><td>M-F</td><td>-142 / 0</td><td>0.07 (1)</td></tr><tr><td>E-F</td><td>0 / 49</td><td>-78.0 -78.0</td><td>0.40 (1)</td><td>10.00</td><td>K-F</td><td>-418 / 0</td><td>0.29 (1)</td></tr><tr><td>F-G</td><td>-49 / 0</td><td>-78.0 -78.0</td><td>0.39 (1)</td><td>6.25</td><td>K-G</td><td>-59 / 0</td><td>0.03 (1)</td></tr><tr><td>G-H</td><td>-160 / 0</td><td>-78.0 -78.0</td><td>0.28 (1)</td><td>6.25</td><td>J-G</td><td>-198 / 0</td><td>0.14 (1)</td></tr><tr><td>H-I</td><td>0 / 10</td><td>-78.0 -78.0</td><td>0.01 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>B-N</td><td>0 / 52</td><td>-18.5 -18.5</td><td>0.13 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>N-M</td><td>0 / 48</td><td>-18.5 -18.5</td><td>0.14 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>M-L</td><td>0 / 50</td><td>-18.5 -18.5</td><td>0.14 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>L-K</td><td>0 / 50</td><td>-18.5 -18.5</td><td>0.14 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>K-J</td><td>0 / 91</td><td>-18.5 -18.5</td><td>0.14 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>J-H</td><td>0 / 94</td><td>-18.5 -18.5</td><td>0.13 (4)</td><td>10.00</td><td></td><td></td><td></td></tr></table>							JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	B	306	0	306	0	27-4-0 (12-4-0)	11-10	N	308	0	308	0	27-4-0 (12-4-0)	11-10	M	834	0	834	0	27-4-0 (12-4-0)	11-10	K	572	0	572	0	27-4-0 (12-4-0)	11-10	J	307	0	307	0	27-4-0 (12-4-0)	11-10	H	365	0	365	0	27-4-0 (12-4-0)	11-10	JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	B	215	148 / 0	0 / 0	0 / 0	0 / 0	67 / 0	0 / 0	N	225	107 / 0	0 / 0	0 / 0	0 / 0	118 / 0	0 / 0	M	590	389 / 0	0 / 0	0 / 0	0 / 0	201 / 0	0 / 0	K	408	248 / 0	0 / 0	0 / 0	0 / 0	160 / 0	0 / 0	J	224	106 / 0	0 / 0	0 / 0	0 / 0	118 / 0	0 / 0	H	256	179 / 0	0 / 0	0 / 0	0 / 0	76 / 0	0 / 0	CHORDS				WEBS				MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 CSI (LC)	FR-TO		FROM TO			FR-TO			A-B	0 / 10	-78.0 -78.0	0.01 (1)	10.00	N-C	-199 / 0	0.14 (1)	B-C	-87 / 0	-78.0 -78.0	0.27 (1)	6.25	C-M	-139 / 0	0.07 (1)	C-D	0 / 50	-78.0 -78.0	0.40 (1)	10.00	M-D	-521 / 0	0.36 (1)	D-E	0 / 49	-78.0 -78.0	0.40 (1)	10.00	M-F	-142 / 0	0.07 (1)	E-F	0 / 49	-78.0 -78.0	0.40 (1)	10.00	K-F	-418 / 0	0.29 (1)	F-G	-49 / 0	-78.0 -78.0	0.39 (1)	6.25	K-G	-59 / 0	0.03 (1)	G-H	-160 / 0	-78.0 -78.0	0.28 (1)	6.25	J-G	-198 / 0	0.14 (1)	H-I	0 / 10	-78.0 -78.0	0.01 (1)	10.00				B-N	0 / 52	-18.5 -18.5	0.13 (4)	10.00				N-M	0 / 48	-18.5 -18.5	0.14 (4)	10.00				M-L	0 / 50	-18.5 -18.5	0.14 (4)	10.00				L-K	0 / 50	-18.5 -18.5	0.14 (4)	10.00				K-J	0 / 91	-18.5 -18.5	0.14 (4)	10.00				J-H	0 / 94	-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 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 CSI: TC=0.40/1.00 (D-F:1), BC=0.14/1.00 (J-K:4), WB=0.36/1.00 (D-M:1), SSI=0.22/1.00 (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= 0.62 (G) (INPUT = 0.90) JSI METAL= 0.19 (E) (INPUT = 1.00)						
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG																																																																																																																																																																																																																																																																					
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX																																																																																																																																																																																																																																																																					
B	306	0	306	0	27-4-0 (12-4-0)	11-10																																																																																																																																																																																																																																																																					
N	308	0	308	0	27-4-0 (12-4-0)	11-10																																																																																																																																																																																																																																																																					
M	834	0	834	0	27-4-0 (12-4-0)	11-10																																																																																																																																																																																																																																																																					
K	572	0	572	0	27-4-0 (12-4-0)	11-10																																																																																																																																																																																																																																																																					
J	307	0	307	0	27-4-0 (12-4-0)	11-10																																																																																																																																																																																																																																																																					
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JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL																																																																																																																																																																																																																																																																				
B	215	148 / 0	0 / 0	0 / 0	0 / 0	67 / 0	0 / 0																																																																																																																																																																																																																																																																				
N	225	107 / 0	0 / 0	0 / 0	0 / 0	118 / 0	0 / 0																																																																																																																																																																																																																																																																				
M	590	389 / 0	0 / 0	0 / 0	0 / 0	201 / 0	0 / 0																																																																																																																																																																																																																																																																				
K	408	248 / 0	0 / 0	0 / 0	0 / 0	160 / 0	0 / 0																																																																																																																																																																																																																																																																				
J	224	106 / 0	0 / 0	0 / 0	0 / 0	118 / 0	0 / 0																																																																																																																																																																																																																																																																				
H	256	179 / 0	0 / 0	0 / 0	0 / 0	76 / 0	0 / 0																																																																																																																																																																																																																																																																				
CHORDS				WEBS																																																																																																																																																																																																																																																																							
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 CSI (LC)																																																																																																																																																																																																																																																																				
FR-TO		FROM TO			FR-TO																																																																																																																																																																																																																																																																						
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C-D	0 / 50	-78.0 -78.0	0.40 (1)	10.00	M-D	-521 / 0	0.36 (1)																																																																																																																																																																																																																																																																				
D-E	0 / 49	-78.0 -78.0	0.40 (1)	10.00	M-F	-142 / 0	0.07 (1)																																																																																																																																																																																																																																																																				
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F-G	-49 / 0	-78.0 -78.0	0.39 (1)	6.25	K-G	-59 / 0	0.03 (1)																																																																																																																																																																																																																																																																				
G-H	-160 / 0	-78.0 -78.0	0.28 (1)	6.25	J-G	-198 / 0	0.14 (1)																																																																																																																																																																																																																																																																				
H-I	0 / 10	-78.0 -78.0	0.01 (1)	10.00																																																																																																																																																																																																																																																																							
B-N	0 / 52	-18.5 -18.5	0.13 (4)	10.00																																																																																																																																																																																																																																																																							
N-M	0 / 48	-18.5 -18.5	0.14 (4)	10.00																																																																																																																																																																																																																																																																							
M-L	0 / 50	-18.5 -18.5	0.14 (4)	10.00																																																																																																																																																																																																																																																																							
L-K	0 / 50	-18.5 -18.5	0.14 (4)	10.00																																																																																																																																																																																																																																																																							
K-J	0 / 91	-18.5 -18.5	0.14 (4)	10.00																																																																																																																																																																																																																																																																							
J-H	0 / 94	-18.5 -18.5	0.13 (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>TMB1-I</td><td>MT20</td><td>3.0</td><td>4.0</td><td>1.50</td><td>2.75</td></tr><tr><td>C</td><td>TTWW+m</td><td>MT20</td><td>4.0</td><td>6.0</td><td>1.75</td><td>1.00</td></tr><tr><td>D</td><td>TMW+w</td><td>MT20</td><td>2.0</td><td>4.0</td><td></td><td></td></tr><tr><td>E</td><td>TS-t</td><td>MT20</td><td>3.0</td><td>6.0</td><td></td><td></td></tr><tr><td>F</td><td>TMWW-t</td><td>MT20</td><td>4.0</td><td>4.0</td><td></td><td></td></tr><tr><td>G</td><td>TTWW+m</td><td>MT20</td><td>4.0</td><td>6.0</td><td>1.75</td><td>1.00</td></tr><tr><td>H</td><td>TMB1-I</td><td>MT20</td><td>3.0</td><td>4.0</td><td>1.50</td><td>2.75</td></tr><tr><td>J</td><td>BMW1+w</td><td>MT20</td><td>2.0</td><td>4.0</td><td></td><td></td></tr><tr><td>K</td><td>BMWW1-t</td><td>MT20</td><td>4.0</td><td>4.0</td><td></td><td></td></tr><tr><td>L</td><td>BS-t</td><td>MT20</td><td>3.0</td><td>6.0</td><td></td><td></td></tr><tr><td>M</td><td>BMWWW1-t</td><td>MT20</td><td>5.0</td><td>6.0</td><td></td><td></td></tr><tr><td>N</td><td>BMW1+w</td><td>MT20</td><td>2.0</td><td>4.0</td><td></td><td></td></tr></table> LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2							JT	TYPE	PLATES	W	LEN	Y	X	B	TMB1-I	MT20	3.0	4.0	1.50	2.75	C	TTWW+m	MT20	4.0	6.0	1.75	1.00	D	TMW+w	MT20	2.0	4.0			E	TS-t	MT20	3.0	6.0			F	TMWW-t	MT20	4.0	4.0			G	TTWW+m	MT20	4.0	6.0	1.75	1.00	H	TMB1-I	MT20	3.0	4.0	1.50	2.75	J	BMW1+w	MT20	2.0	4.0			K	BMWW1-t	MT20	4.0	4.0			L	BS-t	MT20	3.0	6.0			M	BMWWW1-t	MT20	5.0	6.0			N	BMW1+w	MT20	2.0	4.0																																																																																																																																																																												
JT	TYPE	PLATES	W	LEN	Y	X																																																																																																																																																																																																																																																																					
B	TMB1-I	MT20	3.0	4.0	1.50	2.75																																																																																																																																																																																																																																																																					
C	TTWW+m	MT20	4.0	6.0	1.75	1.00																																																																																																																																																																																																																																																																					
D	TMW+w	MT20	2.0	4.0																																																																																																																																																																																																																																																																							
E	TS-t	MT20	3.0	6.0																																																																																																																																																																																																																																																																							
F	TMWW-t	MT20	4.0	4.0																																																																																																																																																																																																																																																																							
G	TTWW+m	MT20	4.0	6.0	1.75	1.00																																																																																																																																																																																																																																																																					
H	TMB1-I	MT20	3.0	4.0	1.50	2.75																																																																																																																																																																																																																																																																					
J	BMW1+w	MT20	2.0	4.0																																																																																																																																																																																																																																																																							
K	BMWW1-t	MT20	4.0	4.0																																																																																																																																																																																																																																																																							
L	BS-t	MT20	3.0	6.0																																																																																																																																																																																																																																																																							
M	BMWWW1-t	MT20	5.0	6.0																																																																																																																																																																																																																																																																							
N	BMW1+w	MT20	2.0	4.0																																																																																																																																																																																																																																																																							

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318466	H11A	1	1	TRUSS DESC. JT 45147	E20035553



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - B 2x4 DRY No.2 SPF B - E 2x4 DRY No.2 SPF E - F 2x4 DRY No.2 SPF N - A 2x4 DRY No.2 SPF H - F 2x4 DRY No.2 SPF N - K 2x6 DRY No.2 SPF K - G 2x6 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 FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQ'D JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX N 1772 0 1772 0 0 MECHANICAL H 1519 0 1519 0 0 5-8 2-4 A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT N. MINIMUM BEARING LENGTH AT JOINT N = 2-4. UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL N 1255 812 / 0 0 / 0 0 / 0 443 / 0 0 / 0 H 1078 686 / 0 0 / 0 0 / 0 0 / 0 392 / 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 = 4.88 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS WEBS MEMB. MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) MAX. UNBRACED LENGTH FR-TO MAX. FACTORED FORCE (LBS) MAX. FACTORED CSI (LC) FR-TO FROM TO A-B -1413 / 0 -78.0 -78.0 0.23 (1) 5.22 M-B -254 / 0 0.22 (1) B-O -1474 / 0 -114.5 -114.5 0.39 (1) 4.88 B-L 0 / 1107 0.27 (1) O-C -1474 / 0 -78.0 -78.0 0.39 (1) 4.88 L-C -472 / 0 0.40 (1) C-D -1474 / 0 -78.0 -78.0 0.36 (1) 4.93 L-D 0 / 428 0.11 (1) D-E -1233 / 0 -78.0 -78.0 0.27 (1) 5.43 J-D -728 / 0 0.62 (1) E-F -1158 / 0 -78.0 -78.0 0.27 (1) 5.58 J-E 0 / 948 0.23 (1) N-A -1761 / 0 0.0 0.0 0.25 (1) 6.24 I-E -161 / 8 0.14 (1) H-F -1345 / 0 0.0 0.0 0.16 (1) 6.95 A-M 0 / 975 0.24 (1) I-F 0 / 740 0.18 (1) N-M 0 / 0 -27.2 -27.2 0.10 (1) 10.00 M-P 0 / 838 -27.2 -27.2 0.30 (1) 10.00 P-L 0 / 838 -18.5 -18.5 0.30 (1) 10.00 L-K 0 / 1233 -18.5 -18.5 0.24 (1) 10.00 K-J 0 / 1233 -18.5 -18.5 0.24 (1) 10.00 J-I 0 / 688 -18.5 -18.5 0.12 (1) 10.00 I-H 0 / 0 -18.5 -18.5 0.04 (4) 10.00 H-G 0 / 0 -96.5 -96.5 0.08 (1) 10.00 FACTORED CONCENTRATED LOADS (LBS) JT LOC. LC1 MAX- MAX+ FACE DIR TYPE HEEL CONN. B 3-5-8 -107 -107 --- FRONT VERT TOTAL --- C1 P 7-8-1 -749 -749 --- FRONT VERT TOTAL --- C1					DESIGN CRITERIA *** SPECIAL LOADS ANALYSIS *** GEOMETRY AND/OR BASIC LOADS CHANGED BY USER. LOADS WERE DERIVED FROM USER INPUT NO FURTHER MODIFICATIONS WERE MADE SPECIFIED LOADS: TOP CH. LL = 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 = 3-5-8 RIGHT SETBACK = 3-10-8 END SETBACK = 3-10-8 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 7-8-1 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, NBCS 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF CBCS 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 (0.08") CANTILEVER DEFLECTION: ALLOWABLE DEFL.(LL)= L/120 (0.19") CALCULATED VERT. DEFL.(LL)= L/ 999 (0.00") ALLOWABLE DEFL.(TL)= L/120 (0.19") CALCULATED VERT. DEFL.(TL)= L/ 999 (0.00") CSI: TC=0.39/1.00 (B-C:1), BC=0.30/1.00 (L-M:1), WB=0.62/1.00 (D-J:1), SSI=0.48/1.00 (L-M: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				
PLATES (table is in inches) JT TYPE PLATES W LEN Y X A TMVW+p MT20 4.0 6.0 1.75 2.00 B TTWW+m MT20 6.0 7.0 Edge 1.50 C TMW+w MT20 2.0 4.0 D TMWW-t MT20 4.0 4.0 E TTWW+m MT20 6.0 7.0 Edge 1.50 F TMVW+p MT20 4.0 6.0 2.00 2.00 H BMV1+p MT20 2.0 4.0 I BMWW-t MT20 4.0 4.0 J BMWW-t MT20 4.0 4.0 2.00 1.75 K BS-t MT20 4.0 6.0 L BMWWW-t MT20 5.0 6.0 2.50 2.00 M BMWW-t MT20 4.0 4.0 2.00 1.75 N 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									
					CONTINUED ON PAGE 2									

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318466	H21S	2	1	TRUSS DESC. JT 45147	E20035555



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - C 2x4 DRY No.2 SPF C - E 2x4 DRY No.2 SPF I - A 2x4 DRY No.2 SPF G - E 2x4 DRY No.2 SPF I - F 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT H - C 2x4 DRY No.2 SPF DRY: SEASONED LUMBER.						DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQD JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX I 655 0 655 0 0 MECHANICAL G 804 0 804 0 0 5-8 1-8 A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT I. MINIMUM BEARING LENGTH AT JOINT I = 1-8.						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 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 (0.45") CALCULATED VERT. DEFL.(LL) = L/999 (0.01") ALLOWABLE DEFL.(TL)= L/360 (0.45") CALCULATED VERT. DEFL.(TL) = L/999 (0.06") CANTILEVER DEFLECTION: ALLOWABLE DEFL.(LL)= L/120 (0.19") CALCULATED VERT. DEFL.(LL) = L/999 (0.01") ALLOWABLE DEFL.(TL)= L/120 (0.19") CALCULATED VERT. DEFL.(TL) = L/999 (0.01") CSI: TC=0.16/1.00 (D-E:1), BC=0.27/1.00 (G-H:4), WB=0.58/1.00 (B-I:1), SSI=0.12/1.00 (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= 0.76 (B) (INPUT = 0.90) JSI METAL= 0.37 (D) (INPUT = 1.00)					
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PLATES (table is in inches)

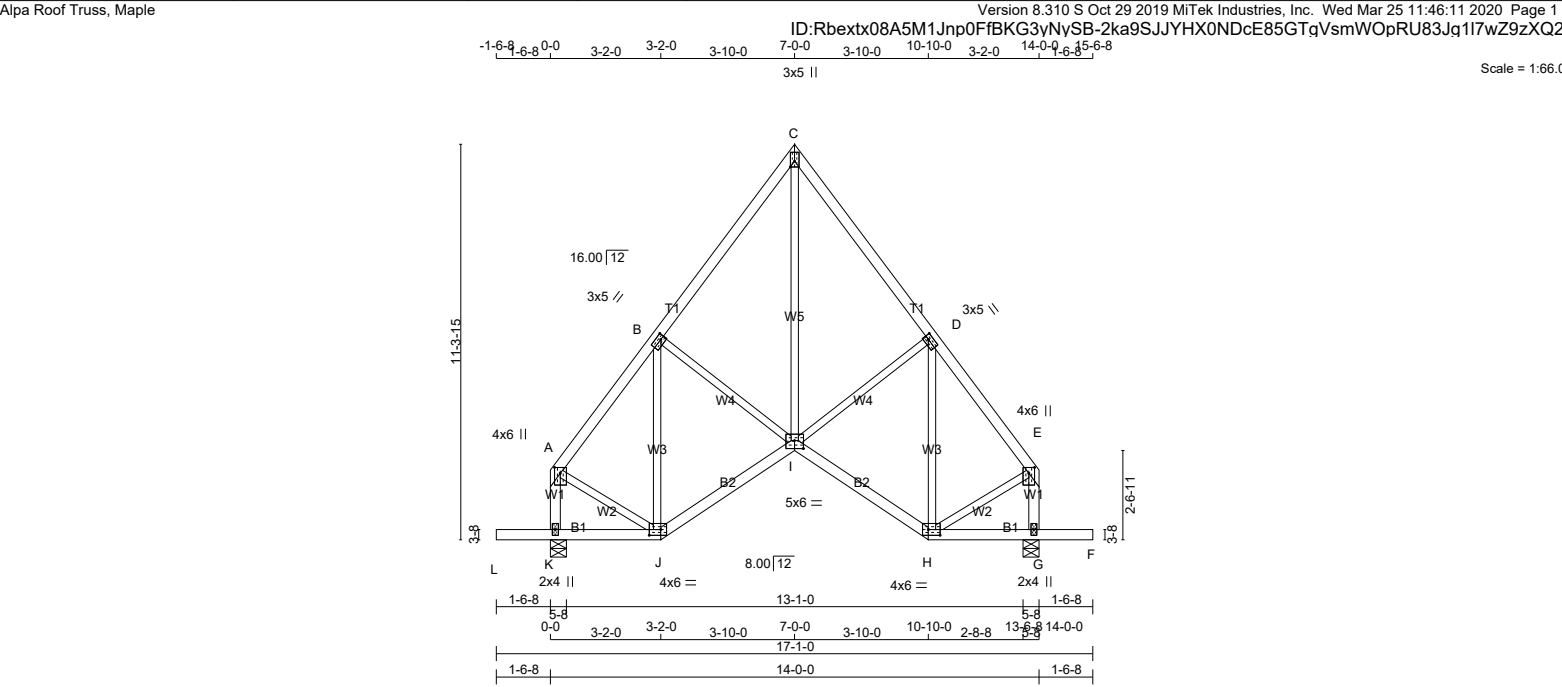
JT TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	2.0	4.0	
B	TMWW+t	MT20	3.0	5.0	2.25 0.75
C	TTW+p	MT20	3.0	5.0	2.00 Edge
D	TMWW+t	MT20	3.0	5.0	2.25 0.75
E	TMV+p	MT20	2.0	4.0	
G	BMVW1-t	MT20	3.0	4.0	
H	BMWWW-t	MT20	4.0	9.0	
I	BMVW1-t	MT20	3.0	4.0	

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

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



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318466	H21T	2	1	TRUSS DESC. JT 45147	E20035556



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - C 2x4 DRY No.2 SPF C - E 2x4 DRY No.2 SPF K - A 2x4 DRY No.2 SPF G - E 2x4 DRY No.2 SPF L - J 2x4 DRY No.2 SPF J - I 2x4 DRY No.2 SPF I - H 2x4 DRY No.2 SPF H - F 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 FACTORED MAXIMUM FACTORED INPUT REQD GROSS REACTION GROSS REACTION BRG BRG JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX K 824 0 824 0 0 5-8 1-8 G 824 0 824 0 0 5-8 1-8 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL K 587 359 / 0 0 / 0 0 / 0 0 / 0 229 / 0 0 / 0 G 587 359 / 0 0 / 0 0 / 0 0 / 0 229 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) K, G BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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 MAX. FACTORED MAX. 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 -482 / 0 -78.0 -78.0 0.13 (1) 6.25 I-C 0 / 508 0.11 (1) B-C -496 / 0 -78.0 -78.0 0.14 (1) 6.25 I-D -25 / 0 0.01 (1) C-D -496 / 0 -78.0 -78.0 0.14 (1) 6.25 H-D -293 / 0 0.17 (1) D-E -482 / 0 -78.0 -78.0 0.13 (1) 6.25 B-I -25 / 0 0.01 (1) K-A -646 / 0 0.0 0.0 0.07 (1) 7.81 J-B -293 / 0 0.17 (1) G-E -646 / 0 0.0 0.0 0.07 (1) 7.81 A-J 0 / 345 0.08 (1) H-E 0 / 345 0.08 (1) L-K 0 / 0 -96.5 -96.5 0.16 (1) 10.00 K-J 0 / 0 -18.5 -18.5 0.05 (4) 10.00 J-I 0 / 364 -18.5 -18.5 0.11 (4) 10.00 I-H 0 / 364 -18.5 -18.5 0.11 (4) 10.00 H-G 0 / 0 -18.5 -18.5 0.05 (4) 10.00 G-F 0 / 0 -96.5 -96.5 0.16 (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 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 (0.47") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01") ALLOWABLE DEFL.(TL)= L/360 (0.47") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03") CANTILEVER DEFLECTION: ALLOWABLE DEFL.(LL)= L/120 (0.19") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01") ALLOWABLE DEFL.(TL)= L/120 (0.19") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01") CSI: TC=0.14/1.00 (B-C:1) , BC=0.16/1.00 (F-G:1) , WB=0.17/1.00 (D-H:1) , SSI=0.12/1.00 (K-L: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= 0.74 (C) (INPUT = 0.90) JSI METAL= 0.18 (E) (INPUT = 1.00)			
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LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



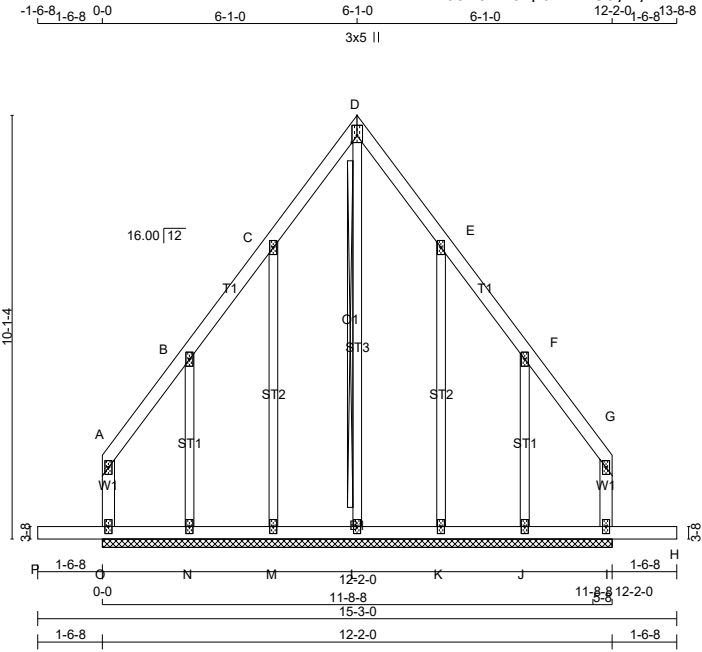
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318466	H22G	1	1	TRUSS DESC. JT 45147	E20035557

Alpa Roof Truss, Maple

Version 8.310 S Oct 29 2019 MiTek Industries, Inc. Wed Mar 25 11:46:13 2020 Page 1

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TOTAL WEIGHT = 70 lb

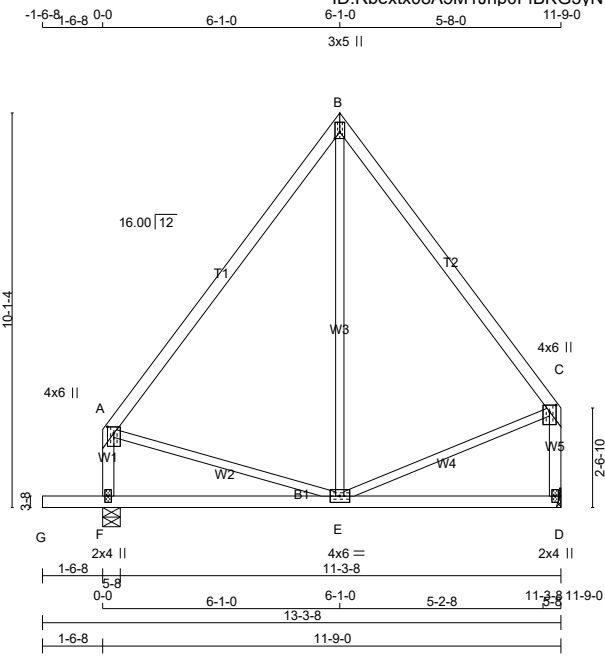
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. O - A 2x4 DRY No.2 SPF A - D 2x4 DRY No.2 SPF D - G 2x4 DRY No.2 SPF I - G 2x4 DRY No.2 SPF P - H 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF ALL GABLE WEBS 2x3 DRY No.2 SPF DRY: SEASONED LUMBER. GABLE STUDS SPACED AT 2-0-0 OC. PLATES (table is in inches) JT TYPE PLATES W LEN Y X 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.										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 = 10.00 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. 2x4 DRY SPF No.2 T-BRACE AT D-L FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH. 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="5">CHORDS</th><th colspan="5">WEBS</th></tr><tr><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>FACTORED VERT. LOAD (PLF)</th><th>LC1</th><th>MAX CSI (LC)</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>MAX CSI (LC)</th><th></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><td></td></tr><tr><td>O- A</td><td>-66 / 0</td><td>0.0</td><td>0.0</td><td>0.05 (1)</td><td>7.81</td><td>L- D</td><td>-200 / 0</td><td>0.15 (1)</td></tr><tr><td>A- B</td><td>0 / 14</td><td>-78.0</td><td>-78.0</td><td>0.04 (1)</td><td>10.00</td><td>M- C</td><td>-161 / 0</td><td>0.16 (1)</td></tr><tr><td>B- C</td><td>0 / 22</td><td>-78.0</td><td>-78.0</td><td>0.04 (1)</td><td>10.00</td><td>N- B</td><td>-147 / 0</td><td>0.05 (1)</td></tr><tr><td>C- D</td><td>0 / 23</td><td>-78.0</td><td>-78.0</td><td>0.04 (1)</td><td>10.00</td><td>K- E</td><td>-161 / 0</td><td>0.16 (1)</td></tr><tr><td>D- E</td><td>0 / 23</td><td>-78.0</td><td>-78.0</td><td>0.04 (1)</td><td>10.00</td><td>J- F</td><td>-147 / 0</td><td>0.05 (1)</td></tr><tr><td>E- F</td><td>0 / 22</td><td>-78.0</td><td>-78.0</td><td>0.04 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>F- G</td><td>0 / 14</td><td>-78.0</td><td>-78.0</td><td>0.04 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>I- G</td><td>-66 / 0</td><td>0.0</td><td>0.0</td><td>0.05 (1)</td><td>7.81</td><td></td><td></td><td></td></tr><tr><td>P- O</td><td>0 / 0</td><td>-96.5</td><td>-96.5</td><td>0.16 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>O- N</td><td>-8 / 0</td><td>-18.5</td><td>-18.5</td><td>0.11 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>N- M</td><td>-12 / 0</td><td>-18.5</td><td>-18.5</td><td>0.02 (1)</td><td>6.25</td><td></td><td></td><td></td></tr><tr><td>M- L</td><td>-15 / 0</td><td>-18.5</td><td>-18.5</td><td>0.02 (4)</td><td>6.25</td><td></td><td></td><td></td></tr><tr><td>L- K</td><td>-15 / 0</td><td>-18.5</td><td>-18.5</td><td>0.02 (4)</td><td>6.25</td><td></td><td></td><td></td></tr><tr><td>K- J</td><td>-12 / 0</td><td>-18.5</td><td>-18.5</td><td>0.02 (1)</td><td>6.25</td><td></td><td></td><td></td></tr><tr><td>J- I</td><td>-8 / 0</td><td>-18.5</td><td>-18.5</td><td>0.11 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>I- H</td><td>0 / 0</td><td>-96.5</td><td>-96.5</td><td>0.16 (1)</td><td>10.00</td><td></td><td></td><td></td></tr></table>										CHORDS					WEBS					MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)		FR-TO		FROM	TO		FR-TO				O- A	-66 / 0	0.0	0.0	0.05 (1)	7.81	L- D	-200 / 0	0.15 (1)	A- B	0 / 14	-78.0	-78.0	0.04 (1)	10.00	M- C	-161 / 0	0.16 (1)	B- C	0 / 22	-78.0	-78.0	0.04 (1)	10.00	N- B	-147 / 0	0.05 (1)	C- D	0 / 23	-78.0	-78.0	0.04 (1)	10.00	K- E	-161 / 0	0.16 (1)	D- E	0 / 23	-78.0	-78.0	0.04 (1)	10.00	J- F	-147 / 0	0.05 (1)	E- F	0 / 22	-78.0	-78.0	0.04 (1)	10.00				F- G	0 / 14	-78.0	-78.0	0.04 (1)	10.00				I- G	-66 / 0	0.0	0.0	0.05 (1)	7.81				P- O	0 / 0	-96.5	-96.5	0.16 (1)	10.00				O- N	-8 / 0	-18.5	-18.5	0.11 (1)	10.00				N- M	-12 / 0	-18.5	-18.5	0.02 (1)	6.25				M- L	-15 / 0	-18.5	-18.5	0.02 (4)	6.25				L- K	-15 / 0	-18.5	-18.5	0.02 (4)	6.25				K- J	-12 / 0	-18.5	-18.5	0.02 (1)	6.25				J- I	-8 / 0	-18.5	-18.5	0.11 (1)	10.00				I- H	0 / 0	-96.5	-96.5	0.16 (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 CSI: TC=0.05/1.00 (G-I:1) , BC=0.16/1.00 (H-I:1) , WB=0.16/1.00 (E-K:1) , SSI=0.12/1.00 (O-P: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= 0.19 (D) (INPUT = 0.90) JSI METAL= 0.08 (E) (INPUT = 1.00)									
CHORDS					WEBS																																																																																																																																																																																																				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)																																																																																																																																																																																																		
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M- L	-15 / 0	-18.5	-18.5	0.02 (4)	6.25																																																																																																																																																																																																				
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I- H	0 / 0	-96.5	-96.5	0.16 (1)	10.00																																																																																																																																																																																																				
LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2																																																																																																																																																																																																									

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318466	H22S	3	1	TRUSS DESC. JT 45147	E20035558

Alpa Roof Truss, Maple

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TOTAL WEIGHT = 3 X 60 = 179 lb

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
A - B	2x4	DRY	2100F 1.8E	SPF
B - C	2x4	DRY	No.2	SPF
F - A	2x4	DRY	No.2	SPF
D - C	2x4	DRY	No.2	SPF
G - D	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	6.0	2.00	2.00
B	TTW+p	MT20	3.0	5.0	2.00	Edge
C	TMVW+p	MT20	4.0	6.0	2.00	2.00
D	BMV1+p	MT20	2.0	4.0		
E	BMWWW-t	MT20	4.0	6.0		
F	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS		FACTORED	MAXIMUM	FACTORED	INPUT	REQRD
		GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
D	567	0	567	0	0	MECHANICAL
F	715	0	715	0	0	5-8 1-8

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
D	404	247 / 0	0 / 0	0 / 0	0 / 0	157 / 0	0 / 0	
F	510	311 / 0	0 / 0	0 / 0	0 / 0	199 / 0	0 / 0	

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		MEMB.				WEBS	
MAX. FACTORED		FORCE		MAX. FACTORED		FORCE	
		(LBS)		(PLF)		(LBS)	
		VERT. LOAD		MAX		MAX	
		LC1		CSI (LC)		UNBRAC	
		FROM TO		LENGTH		FR-TO	
A - B	-298 / 0	-78.0	-78.0	0.25 (1)	6.25	E - B	0 / 103
B - C	-298 / 0	-78.0	-78.0	0.32 (1)	6.25	A - E	0 / 185
F - A	-523 / 0	0.0	0.0	0.06 (1)	7.81	E - C	0 / 192
D - C	-528 / 0	0.0	0.0	0.07 (1)	7.81		
G - F	0 / 0	-96.5	-96.5	0.16 (1)	10.00		
F - E	0 / 0	-18.5	-18.5	0.18 (4)	10.00		
E - D	0 / 0	-18.5	-18.5	0.18 (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

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

CANTILEVER DEFLECTION:
ALLOWABLE DEFL.(LL)= L/120 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/120 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.32/1.00 (B-C:1) , BC=0.18/1.00 (E-F:4) , WB=0.04/1.00 (C-E:1) , SSI=0.12/1.00 (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
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.30 (E) (INPUT = 0.90)
JSI METAL= 0.15 (A) (INPUT = 1.00)

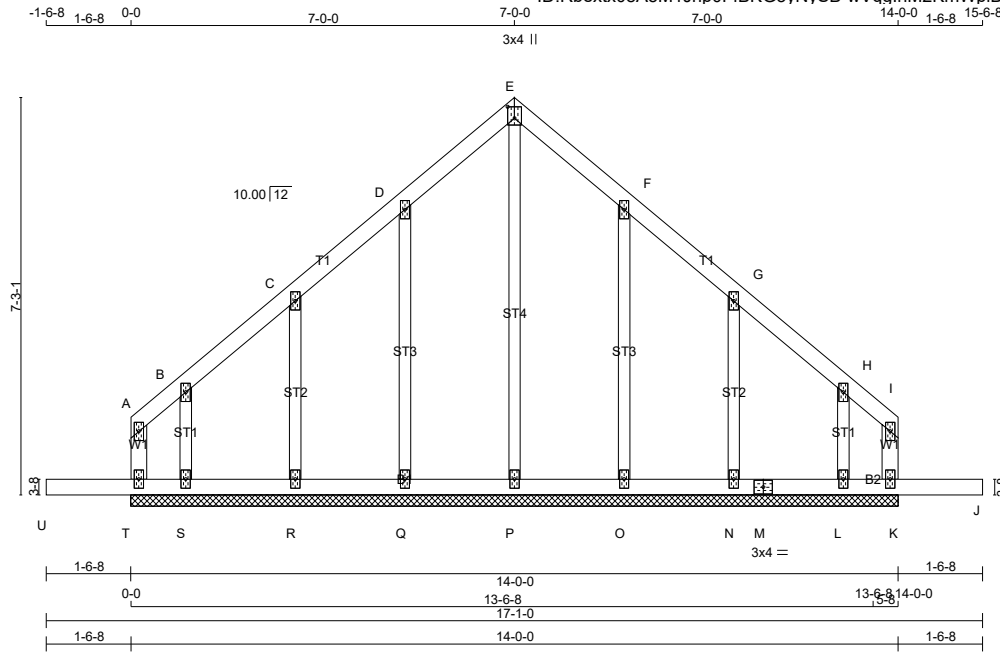
LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



Alpa Roof Truss, Maple

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Scale = 1:42.0



TOTAL WEIGHT = 65 lb

N. L. G. A. RULES			
CHORDS	SIZE		LUMBER
T - A	2x4	DRY	No.2
A - E	2x4	DRY	No.2
E - I	2x4	DRY	No.2
K - I	2x4	DRY	No.2
U - M	2x4	DRY	No.2
M - J	2x4	DRY	No.2

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.

JT	TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	2.0	4.0		
B, C, D, F, G, H						
B	TMV+w	MT20	2.0	4.0		
E	TTW+p	MT20	3.0	4.0	2.50	1.50
I	TMV+p	MT20	2.0	4.0		
K	BMV1+p	MT20	2.0	4.0		
L, N, O, P, Q, R, S						
L	BMV1+w	MT20	2.0	4.0		
M	BS-t	MT20	3.0	4.0		
T	BMV1+p	MT20	2.0	4.0		

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)

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 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

TOTAL LOAD CASES: (4)

CHORDS					WEBS			
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		
T-A	-23 / 0	0.0	0.0	0.04 (1)	7.81	P-E	-201 / 0	0.18 (1)
A-B	0 / 17	-78.0	-78.0	0.03 (1)	10.00	Q-D	-159 / 0	0.08 (1)
B-C	0 / 26	-78.0	-78.0	0.04 (1)	10.00	R-C	-157 / 0	0.04 (1)
C-D	0 / 29	-78.0	-78.0	0.04 (1)	10.00	S-B	-106 / 0	0.02 (1)
D-E	0 / 31	-78.0	-78.0	0.04 (1)	10.00	O-F	-159 / 0	0.08 (1)
E-F	0 / 31	-78.0	-78.0	0.04 (1)	10.00	N-G	-157 / 0	0.04 (1)
F-G	0 / 29	-78.0	-78.0	0.04 (1)	10.00	L-H	-106 / 0	0.02 (1)
G-H	0 / 26	-78.0	-78.0	0.04 (1)	10.00			
H-I	0 / 17	-78.0	-78.0	0.03 (1)	10.00			
K-I	-23 / 0	0.0	0.0	0.04 (1)	7.81			
U-T	0 / 0	-96.5	-96.5	0.16 (1)	10.00			
T-S	-12 / 0	-18.5	-18.5	0.12 (1)	6.25			
S-R	-18 / 0	-18.5	-18.5	0.02 (4)	6.25			
R-Q	-22 / 0	-18.5	-18.5	0.02 (4)	6.25			
Q-P	-25 / 0	-18.5	-18.5	0.02 (4)	6.25			
P-O	-25 / 0	-18.5	-18.5	0.02 (4)	6.25			
O-N	-22 / 0	-18.5	-18.5	0.02 (4)	6.25			
N-M	-18 / 0	-18.5	-18.5	0.02 (4)	6.25			
M-L	-18 / 0	-18.5	-18.5	0.02 (4)	6.25			
L-K	-12 / 0	-18.5	-18.5	0.12 (1)	6.25			
K-J	0 / 0	-96.5	-96.5	0.16 (1)	10.00			

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

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

-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=0.04/1.00 (E-F:1) , BC=0.16/1.00 (J-K:1) ,
WB=0.18/1.00 (E-P:1) , SSI=0.12/1.00 (T-U: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 .

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= 0.26 (E) (INPUT = 0.90)
JSI METAL= 0.08 (D) (INPUT = 1.00)

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



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TOTAL WEIGHT = 3 X 69 = 206 lb

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	3.0	5.0	1.50	1.75
B	TMVW-t	MT20	4.0	4.0	2.00	1.25
C	TMW+w	MT20	2.0	4.0		
D	TTWW+p	MT20	4.0	6.0	Edge	
E	TMW+w	MT20	2.0	4.0		
F	TMVW-t	MT20	4.0	4.0	2.00	1.25
G	TMVW-t	MT20	3.0	5.0	1.50	1.75
I	BMV1+p	MT20	2.0	4.0		
J	BBWW-I	MT20	4.0	6.0	2.00	4.50
K	BBWWW-m	MT20	6.0	7.0	3.00	3.00
L	BBWWW-m	MT20	6.0	7.0	3.00	3.00
M	BBWW-I	MT20	4.0	6.0	2.00	4.50
N	BMV1+p	MT20	2.0	4.0		

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

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

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX CS1 (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CS1 (LC)
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	-486 / 0	-78.0 -78.0	0.04 (1)	6.25	D-K	0 / 453	0.10 (1)
B-C	-724 / 0	-78.0 -78.0	0.12 (1)	6.25	K-E	-336 / 0	0.06 (1)
C-D	-809 / 0	-78.0 -78.0	0.17 (1)	6.25	K-F	0 / 452	0.10 (1)
D-E	-809 / 0	-78.0 -78.0	0.17 (1)	6.25	J-F	-572 / 0	0.10 (1)
E-F	-724 / 0	-78.0 -78.0	0.12 (1)	6.25	L-D	0 / 453	0.10 (1)
F-G	-486 / 0	-78.0 -78.0	0.04 (1)	6.25	L-C	-336 / 0	0.06 (1)
N-A	-596 / 0	0.0 0.0	0.06 (1)	7.81	B-L	0 / 452	0.10 (1)
I-G	-596 / 0	0.0 0.0	0.06 (1)	7.81	M-B	-572 / 0	0.10 (1)
					A-M	0 / 430	0.10 (1)
O-N	0 / 0	-96.5 -96.5	0.16 (1)	10.00	J-G	0 / 430	0.10 (1)
N-M	0 / 0	-18.5 -18.5	0.12 (1)	10.00			
M-L	0 / 473	-18.5 -18.5	0.08 (1)	10.00			
L-K	0 / 349	-18.5 -18.5	0.41 (4)	10.00			
K-J	0 / 473	-18.5 -18.5	0.08 (1)	10.00			
J-I	0 / 0	-18.5 -18.5	0.12 (1)	10.00			
I-H	0 / 0	-96.5 -96.5	0.16 (1)	10.00			

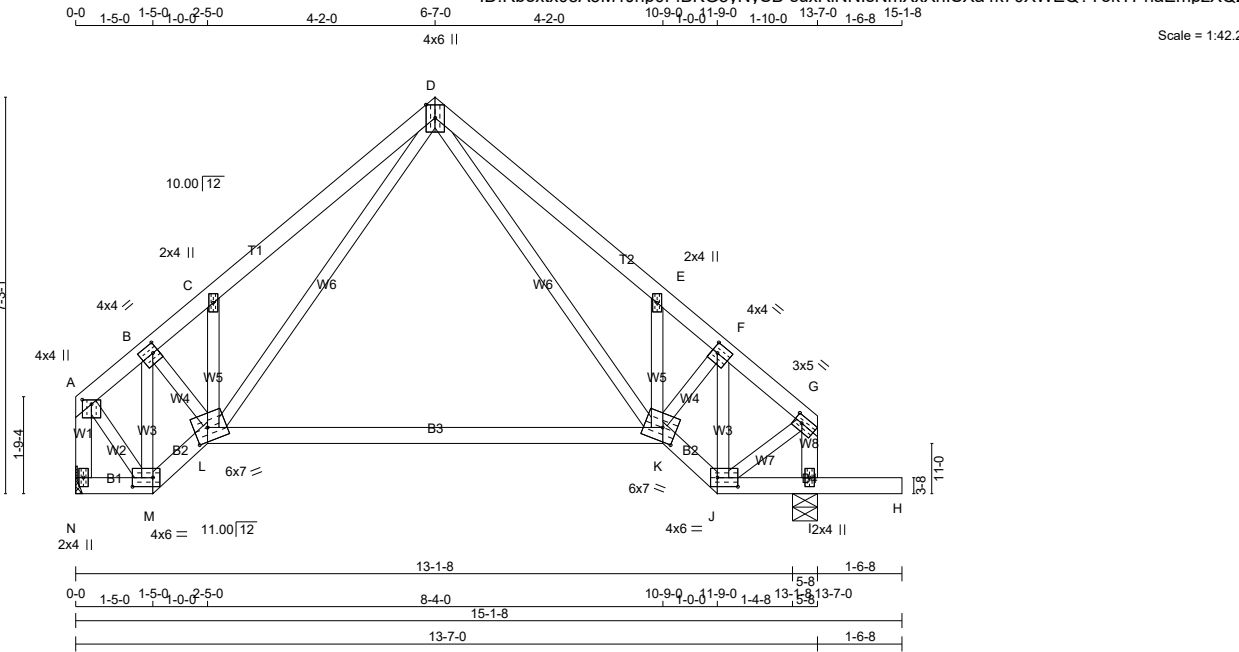
JSI GRIP= 0.80 (A) (INPUT = 0.90)
JSI METAL= 0.18 (E) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318466	H23TS	3	1	TRUSS DESC. JT 45147	E20035561

Alpa Roof Truss, Maple

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ID:Rbextx08A5M1Jnp0fBKG3yNySB-suxRiNNIsNmXxXhISxa4k70XWEQ?YokYPhaEmpzXQ2q



TOTAL WEIGHT = 3 X 66 = 199 lb

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMVW+p	MT20	4.0	4.0	1.00 2.00
B	TMWW-t	MT20	4.0	4.0	2.00 1.25
C	TMW+w	MT20	2.0	4.0	
D	TTWW+p	MT20	4.0	6.0	Edge
E	TMW+w	MT20	2.0	4.0	
F	TMWW-t	MT20	4.0	4.0	2.00 1.25
G	TMVW-t	MT20	3.0	5.0	1.50 1.75
I	BMV1+p	MT20	2.0	4.0	
J	BBWW-l	MT20	4.0	6.0	2.00 4.50
K	BBWWW-m	MT20	6.0	7.0	3.00 3.00
L	BBWWW-m	MT20	6.0	7.0	3.00 3.00
M	BBWW-l	MT20	4.0	6.0	2.00 4.50
N	BMV1+p	MT20	2.0	4.0	
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.					

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
N	647	0	647	0	0	MECHANICAL			
I	812	0	812	0	0	5-8	1-8		

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

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
N	461	281 / 0	0 / 0	0 / 0	0 / 0	180 / 0	0 / 0
I	579	354 / 0	0 / 0	0 / 0	0 / 0	226 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO	FR-TO			
A - B	-414 / 0	-78.0	-78.0 0.04 (1)	6.25	M - B	-551 / 0	0.09 (1)
B - C	-648 / 0	-78.0	-78.0 0.12 (1)	6.25	B - L	0 / 469	0.11 (1)
C - D	-743 / 0	-78.0	-78.0 0.16 (1)	6.25	L - C	-353 / 0	0.06 (1)
D - E	-792 / 0	-78.0	-78.0 0.17 (1)	6.25	L - D	0 / 388	0.09 (1)
E - F	-707 / 0	-78.0	-78.0 0.12 (1)	6.25	D - K	0 / 454	0.10 (1)
F - G	-476 / 0	-78.0	-78.0 0.04 (1)	6.25	K - E	-336 / 0	0.06 (1)
N - A	-634 / 0	0.0	0.0 0.07 (1)	7.81	K - F	0 / 442	0.10 (1)
I - G	-584 / 0	0.0	0.0 0.06 (1)	7.81	J - F	-560 / 0	0.10 (1)
					A - M	0 / 438	0.10 (1)
					J - G	0 / 421	0.09 (1)
N - M	0 / 0	-18.5	-18.5 0.01 (4)	10.00			
M - L	0 / 391	-18.5	-18.5 0.07 (1)	10.00			
L - K	0 / 336	-18.5	-18.5 0.40 (4)	10.00			
K - J	0 / 462	-18.5	-18.5 0.08 (1)	10.00			
J - I	0 / 0	-18.5	-18.5 0.12 (1)	10.00			
I - H	0 / 0	-96.5	-96.5 0.16 (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 (0.45")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.45")
CALCULATED VERT. DEFL.(TL) = L/ 670 (0.24")

CANTILEVER DEFLECTION:
ALLOWABLE DEFL.(LL)= L/120 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/120 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 940 (0.02")

CSI: TC=0.17/1.00 (D-E:1) , BC=0.40/1.00 (K-L:4) , WB=0.11/1.00 (B-L:1) , SSI=0.12/1.00 (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= 0.79 (G) (INPUT = 0.90)
JSI METAL= 0.19 (C) (INPUT = 1.00)

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



Alpa Roof Truss, Maple

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TOTAL WEIGHT = $17 \times 18 = 299 \text{ lb}$

JSI GRIP= 0.17 (A) (INPUT = 0.90)
JSI METAL= 0.14 (A) (INPUT = 1.00)

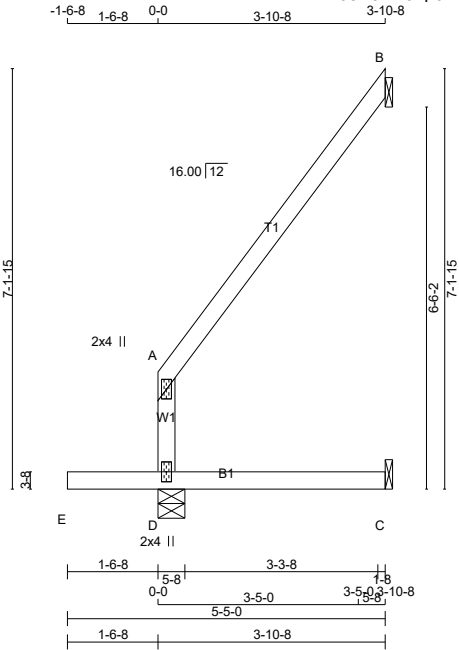
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318466	J2	3	1	TRUSS DESC. JT 45147	E20035563

Alpa Roof Truss, Maple

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ID:Rbextx08A5M1Jnp0FbKG3yNySB-HTdZLQOB9I96o Qs7f8nMme23RV8IA6?5fpuN7zXQ2n

Scale = 1:39.3



TOTAL WEIGHT = 3 X 16 = 47 lb [M]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
A	TMV+p	MT20	2.0	4.0
D	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	DOWN	BRG		BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
D	366	0	366	0	0	5-8	1-8
B	129	0	129	0	0	1-8	1-8
C	27	0	30	0	0	1-8	1-8

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

UNFACTORED REACTIONS						
JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	SOIL
D	261	158 / 0	0 / 0	0 / 0	0 / 0	104 / 0
B	90	70 / 0	0 / 0	0 / 0	0 / 0	20 / 0
C	22	0 / 0	0 / 0	0 / 0	0 / 0	22 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (7)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX. UNBRAC LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		
D-A	-173 / 0	0.0	0.0 0.11 (1)	7.81			
A-B	-17 / 0	-78.0	-78.0 0.15 (1)	6.25			
E-D	0 / 0	-96.5	-96.5 0.18 (7)	10.00			
D-C	0 / 0	-18.5	-18.5 0.08 (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

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

CANTILEVER DEFLECTION:
ALLOWABLE DEFL.(LL)= L/120 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/120 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.15/1.00 (A-B:1) , BC=0.18/1.00 (D-E:7) ,
WB=0.00/1.00 (n/a:0) , SSI=0.14/1.00 (D-E:7)

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= 0.15 (A) (INPUT = 0.90)
JSI METAL= 0.08 (A) (INPUT = 1.00)

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



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318467	H1TB	1	1	TRUSS DESC. JT 45147	E20035564(2)

Alpa Roof Truss, Maple

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ID:Rbextx08A5M1Jnp0FfBKG3yNySB-E219znDmYt_mGqSFlw7QNMxzOT4Oiu8VlrUz57zXPpY

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
K	TMWW+t	MT20	5.0	10.0	2.50	1.75
K	TMWW+t	MT20	4.0	6.0		
L	TMWWW-t	MT20	7.0	8.0	2.50	1.75
M	TMW+w	MT20	2.0	4.0		
N	TMWW-t	MT20	6.0	7.0	2.50	2.00
O	TTWW+m	MT20	6.0	9.0	4.00	2.00
P	TMVWW-t	MT20	6.0	9.0	2.00	3.25
R	BMV1+p	MT20	3.0	5.0		
S	BBW-l	MT20	5.0	8.0	2.75	4.00
T	BBWW-l	MT20	7.0	8.0	4.25	4.50
U	BMWW-t	MT20	6.0	7.0	2.75	2.25
V	BBWWW+p	MT20	10.0	12.0	Edge	6.75
W	BBW-h	MT20	10.0	12.0	6.00	8.00
X	BMWW+t	MT20	4.0	6.0		
Y	BBWW-m	MT18HS	9.0	12.0		
Z	BBWW+p	MT18HS	10.0	16.0	Edge	5.25
AA	BMWWW-t	MT20	5.0	6.0		
AB	BBWW+p	MT18HS	10.0	16.0	Edge	
AC	BBWW-l	MT20	8.0	16.0	4.75	10.50
AD	BMWW-t	MT20	6.0	7.0	2.75	2.25
AE	BMWW-t	MT20	5.0	6.0	2.50	2.50
AF	BMV1+t	MT20	6.0	9.0	Edge	
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.						

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MAX. FACTORED		FACTORED		MAX. FACTORED		MAX. FACTORED		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)
FR-TO		FROM TO			FR-TO				
W- V	0 / 9313	-18.5	-18.5	0.43 (1)	10.00				
V- U	0 / 5410	-18.5	-18.5	0.73 (1)	10.00				
U- T	0 / 2106	-18.5	-18.5	0.30 (1)	10.00				
T- S	-31 / 3	-18.5	-18.5	0.00 (4)	6.25				
S- R	0 / 0	-18.5	-18.5	0.08 (1)	10.00				
R- Q	0 / 0	-96.5	-96.5	0.08 (1)	10.00				
FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
B	2-5-11	-134	-134	---	FRONT	VERT	TOTAL	---	C1
X	25-3-7	-1034	-1034	---	FRONT	VERT	TOTAL	---	C1

CSI: TC=0.63/1.00 (I-J:1) , BC=0.94/1.00 (Z-AA:1) , WB=0.98/1.00 (J-Z:1) , SSI=0.64/1.00 (J-K:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
	MAX MIN	MAX MIN	MAX MIN
MT20	650 371	1747 788	1987 1873
MT18HS	586 403	2455 1382	3163 3004

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (E) (INPUT = 0.90)

JSI METAL= 0.98 (AC) (INPUT = 1.00)

Scale = 1:69.0

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318467	H2TB	1	1	TRUSS DESC. JT 45147	E20035565(2)

PLATES (table is in inches)

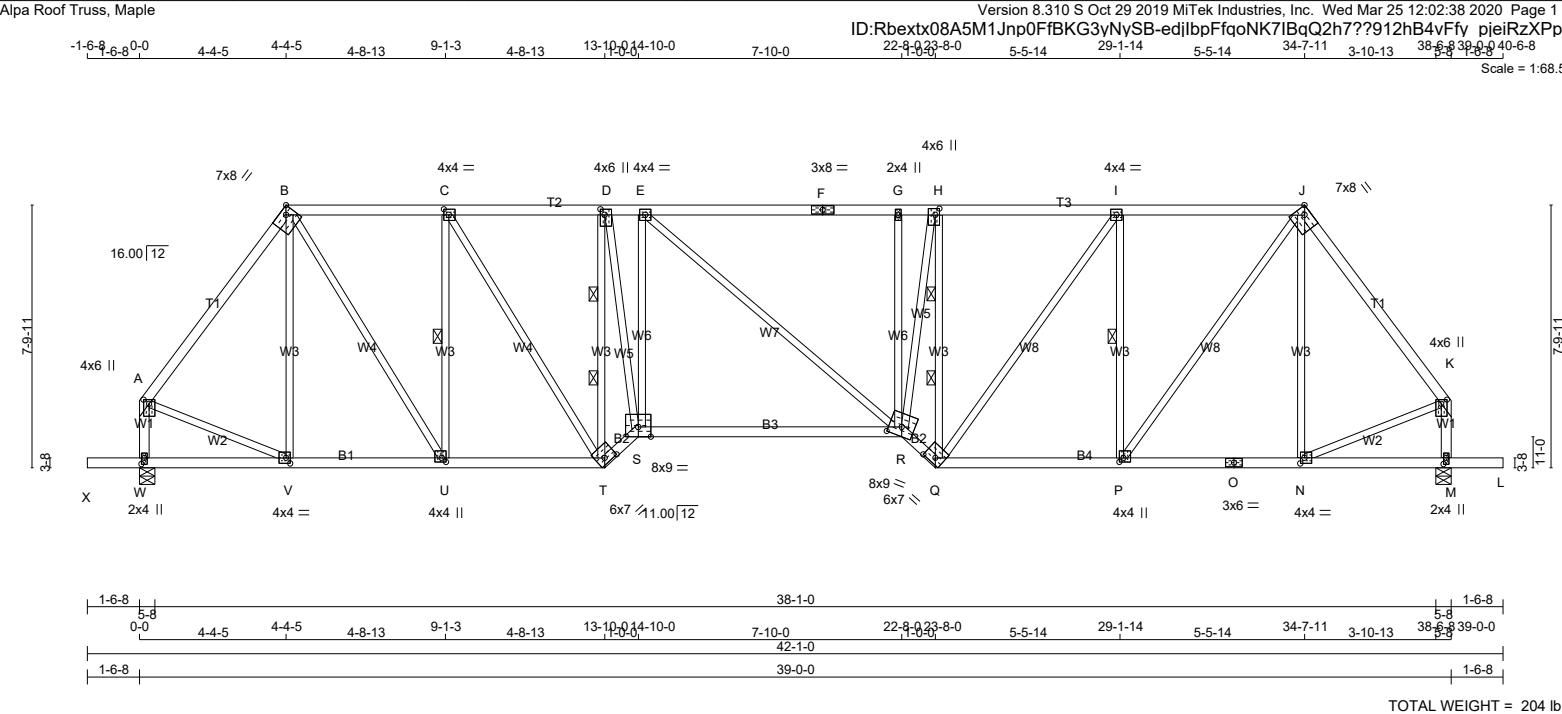
JT	TYPE	PLATES	W	LEN	Y	X
T	BBW-h	MT20	7.0	8.0		
U	BBWW-h	MT20	7.0	8.0	3.25	4.00
V	BBWWW+m	MT20	7.0	12.0	3.25	2.75
W	BBWW-m	MT20	8.0	9.0	3.00	4.50
X	BBWW-h	MT20	7.0	8.0	2.00	5.00
Y	BMWW-t	MT20	4.0	6.0	1.50	3.00
Z	BMWW-t	MT20	4.0	4.0	2.00	1.75
AA	BMV1+p	MT20	2.0	4.0	2.25	1.00

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

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



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
318467	H3TA	1	1	TRUSS DESC. JT 45147	E20035566



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - B 2x4 DRY No.2 SPF B - F 2x4 DRY No.2 SPF F - J 2x4 DRY No.2 SPF J - K 2x4 DRY No.2 SPF W - A 2x4 DRY No.2 SPF M - K 2x4 DRY No.2 SPF X - T 2x4 DRY No.2 SPF T - S 2x4 DRY No.2 SPF S - R 2x4 DRY No.2 SPF R - 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.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQ'D JT VERT HORZ DOWN HORZ UPLIFT IN-SX BRG W 2030 0 2030 0 0 5-8 3-0 M 2030 0 2030 0 0 5-8 3-0 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL W 1447 883 / 0 0 / 0 0 / 0 564 / 0 0 / 0 M 1447 883 / 0 0 / 0 0 / 0 564 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) W, M BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.60 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-U, I-P. 2 LATERAL BRACE(S) AT 1/3 LENGTH OF D-T, H-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="3">CHORDS</th><th colspan="3">WEBS</th></tr><tr><th>MEMB.</th><th>FORCE (LBS)</th><th>VERT. LOAD (PLF)</th><th>MEMB.</th><th>FORCE (LBS)</th><th>MAX CSI (LC)</th></tr><tr><td>FR-TO</td><td></td><td>FROM TO</td><td>FR-TO</td><td></td><td></td></tr><tr><td>A-B</td><td>-1651 / 0</td><td>-78.0 -78.0 0.37 (1)</td><td>V-B</td><td>-260 / 0</td><td>0.30 (1)</td></tr><tr><td>B-C</td><td>-1775 / 0</td><td>-78.0 -78.0 0.33 (1)</td><td>B-U</td><td>0 / 1482</td><td>0.33 (1)</td></tr><tr><td>C-D</td><td>-2258 / 0</td><td>-78.0 -78.0 0.37 (1)</td><td>U-C</td><td>-1168 / 0</td><td>0.45 (1)</td></tr><tr><td>D-E</td><td>-2671 / 0</td><td>-78.0 -78.0 0.48 (1)</td><td>C-T</td><td>0 / 902</td><td>0.20 (1)</td></tr><tr><td>E-F</td><td>-2766 / 0</td><td>-78.0 -78.0 0.80 (1)</td><td>T-D</td><td>-2807 / 0</td><td>1.00 (1)</td></tr><tr><td>F-G</td><td>-2766 / 0</td><td>-78.0 -78.0 0.80 (1)</td><td>D-S</td><td>0 / 2765</td><td>0.62 (1)</td></tr><tr><td>G-H</td><td>-2758 / 0</td><td>-78.0 -78.0 0.49 (1)</td><td>S-E</td><td>-558 / 0</td><td>0.45 (1)</td></tr><tr><td>H-I</td><td>-2357 / 0</td><td>-78.0 -78.0 0.49 (1)</td><td>E-R</td><td>0 / 113</td><td>0.03 (1)</td></tr><tr><td>I-J</td><td>-1882 / 0</td><td>-78.0 -78.0 0.45 (1)</td><td>R-G</td><td>-479 / 0</td><td>0.39 (1)</td></tr><tr><td>J-K</td><td>-1652 / 0</td><td>-78.0 -78.0 0.37 (1)</td><td>R-H</td><td>0 / 2650</td><td>0.60 (1)</td></tr><tr><td>W-A</td><td>-1849 / 0</td><td>0.0 0.0 0.21 (1)</td><td>Q-H</td><td>-2714 / 0</td><td>0.96 (1)</td></tr><tr><td>M-K</td><td>-1850 / 0</td><td>0.0 0.0 0.21 (1)</td><td>Q-I</td><td>0 / 802</td><td>0.18 (1)</td></tr><tr><td></td><td></td><td></td><td>P-I</td><td>-1124 / 0</td><td>0.43 (1)</td></tr><tr><td>X-W</td><td>0 / 0</td><td>-96.5 -96.5 0.16 (1)</td><td>P-J</td><td>0 / 1521</td><td>0.34 (1)</td></tr><tr><td>W-V</td><td>0 / 0</td><td>-18.5 -18.5 0.09 (4)</td><td>N-J</td><td>-255 / 0</td><td>0.29 (1)</td></tr><tr><td>V-U</td><td>0 / 982</td><td>-18.5 -18.5 0.21 (1)</td><td>A-V</td><td>0 / 1047</td><td>0.24 (1)</td></tr><tr><td>U-T</td><td>0 / 1776</td><td>-18.5 -18.5 0.33 (1)</td><td>N-K</td><td>0 / 1048</td><td>0.24 (1)</td></tr><tr><td>T-S</td><td>0 / 3107</td><td>-18.5 -18.5 0.50 (1)</td><td></td><td></td><td></td></tr><tr><td>S-R</td><td>0 / 2680</td><td>-18.5 -18.5 0.62 (1)</td><td></td><td></td><td></td></tr><tr><td>R-Q</td><td>0 / 3146</td><td>-18.5 -18.5 0.51 (1)</td><td></td><td></td><td></td></tr><tr><td>Q-P</td><td>0 / 1883</td><td>-18.5 -18.5 0.37 (1)</td><td></td><td></td><td></td></tr><tr><td>P-O</td><td>0 / 982</td><td>-18.5 -18.5 0.23 (1)</td><td></td><td></td><td></td></tr><tr><td>O-N</td><td>0 / 982</td><td>-18.5 -18.5 0.23 (1)</td><td></td><td></td><td></td></tr><tr><td>N-M</td><td>0 / 0</td><td>-18.5 -18.5 0.10 (4)</td><td></td><td></td><td></td></tr><tr><td>M-L</td><td>0 / 0</td><td>-96.5 -96.5 0.16 (1)</td><td></td><td></td><td></td></tr></table>				CHORDS			WEBS			MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MEMB.	FORCE (LBS)	MAX CSI (LC)	FR-TO		FROM TO	FR-TO			A-B	-1651 / 0	-78.0 -78.0 0.37 (1)	V-B	-260 / 0	0.30 (1)	B-C	-1775 / 0	-78.0 -78.0 0.33 (1)	B-U	0 / 1482	0.33 (1)	C-D	-2258 / 0	-78.0 -78.0 0.37 (1)	U-C	-1168 / 0	0.45 (1)	D-E	-2671 / 0	-78.0 -78.0 0.48 (1)	C-T	0 / 902	0.20 (1)	E-F	-2766 / 0	-78.0 -78.0 0.80 (1)	T-D	-2807 / 0	1.00 (1)	F-G	-2766 / 0	-78.0 -78.0 0.80 (1)	D-S	0 / 2765	0.62 (1)	G-H	-2758 / 0	-78.0 -78.0 0.49 (1)	S-E	-558 / 0	0.45 (1)	H-I	-2357 / 0	-78.0 -78.0 0.49 (1)	E-R	0 / 113	0.03 (1)	I-J	-1882 / 0	-78.0 -78.0 0.45 (1)	R-G	-479 / 0	0.39 (1)	J-K	-1652 / 0	-78.0 -78.0 0.37 (1)	R-H	0 / 2650	0.60 (1)	W-A	-1849 / 0	0.0 0.0 0.21 (1)	Q-H	-2714 / 0	0.96 (1)	M-K	-1850 / 0	0.0 0.0 0.21 (1)	Q-I	0 / 802	0.18 (1)				P-I	-1124 / 0	0.43 (1)	X-W	0 / 0	-96.5 -96.5 0.16 (1)	P-J	0 / 1521	0.34 (1)	W-V	0 / 0	-18.5 -18.5 0.09 (4)	N-J	-255 / 0	0.29 (1)	V-U	0 / 982	-18.5 -18.5 0.21 (1)	A-V	0 / 1047	0.24 (1)	U-T	0 / 1776	-18.5 -18.5 0.33 (1)	N-K	0 / 1048	0.24 (1)	T-S	0 / 3107	-18.5 -18.5 0.50 (1)				S-R	0 / 2680	-18.5 -18.5 0.62 (1)				R-Q	0 / 3146	-18.5 -18.5 0.51 (1)				Q-P	0 / 1883	-18.5 -18.5 0.37 (1)				P-O	0 / 982	-18.5 -18.5 0.23 (1)				O-N	0 / 982	-18.5 -18.5 0.23 (1)				N-M	0 / 0	-18.5 -18.5 0.10 (4)				M-L	0 / 0	-96.5 -96.5 0.16 (1)				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 (1.30") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.25") ALLOWABLE DEFL.(TL)= L/360 (1.30") CALCULATED VERT. DEFL.(TL) = L/ 721 (0.65") CANTILEVER DEFLECTION: ALLOWABLE DEFL.(LL)= L/120 (0.19") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01") ALLOWABLE DEFL.(TL)= L/120 (0.19") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01") CSI: TC=0.80/1.00 (E-G:1), BC=0.62/1.00 (R-S:1), WB=1.00/1.00 (D-T:1), SSI=0.23/1.00 (E-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= 0.90 (T) (INPUT = 0.90) JSI METAL= 0.62 (K) (INPUT = 1.00)			
CHORDS			WEBS																																																																																																																																																																																
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MEMB.	FORCE (LBS)	MAX CSI (LC)																																																																																																																																																																														
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E-F	-2766 / 0	-78.0 -78.0 0.80 (1)	T-D	-2807 / 0	1.00 (1)																																																																																																																																																																														
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M-L	0 / 0	-96.5 -96.5 0.16 (1)																																																																																																																																																																																	
PLATES (table is in inches) JT TYPE PLATES W LEN Y X A TMVW+p MT20 4.0 6.0 1.50 2.00 B TTWW-h MT20 7.0 8.0 Edge 2.75 C TMWW-t MT20 4.0 4.0 2.00 1.75 D TMWW+t MT20 4.0 6.0 2.00 1.50 E TMWW-t MT20 4.0 4.0 F TS-t MT20 3.0 8.0 G TMW+w MT20 2.0 4.0 H TMWW+t MT20 4.0 6.0 2.25 1.50 I TMWW-t MT20 4.0 4.0 J TTWW-h MT20 7.0 8.0 Edge 2.75 K TMVW+p MT20 4.0 6.0 1.50 2.00 M BMV1+p MT20 2.0 4.0 2.25 1.00 N BMWW-t MT20 4.0 4.0 2.00 1.50 O BS-t MT20 3.0 6.0 P BMWW+t MT20 4.0 4.0 1.50 1.50 Q BBWW-h MT20 6.0 7.0 2.00 4.00 R BBWWW-m MT20 8.0 9.0 3.25 4.50 S BBWW-I MT20 8.0 9.0 Edge T BBWW-h MT20 6.0 7.0 2.00 4.00 U BMWW+t MT20 4.0 4.0 1.50 1.50 V BMWW-t MT20 4.0 4.0 2.00 1.50 W BMV1+p MT20 2.0 4.0 2.25 1.00				TOTAL WEIGHT = 204 lb																																																																																																																																																																															
LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2				CONTINUED ON PAGE 2																																																																																																																																																																															





December 18, 2019

Re: Expiration Date for Technical Bulletins Extended to 4/1/2020

Please be advised that the expiration date of the Technical Bulletins listed below has been extended until April 1, 2020.

T-SPECCP17	T-SPECH17	T-SPECDSHGUS17R
T-SPECHGUS17-R	T-SPECHHUS17-R	T-SPECHUS17
T-SPECLF17	T-SPECLT17	T-SPECLU17
T-SPECCLUL17	T-SPECLUS17	T-SPECSUR17
T-SPECTBE17	T-SPECTC17	T-SPECTHGB17
T-SPECTHGBHV17	T-SPECTHGQ17	T-SPECTHGW17
T-SPECLSULSSU17	T-SPECHTHGQ17	T-SPECSTHGQ17

Should you have any questions or concerns regarding the above, please contact me at your convenience.

Sincerely,



Brent Bunting, P.Eng.
Simpson Strong-Tie Canada, Ltd.



LUS – Double Shear Joist Hangers



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

Material: 18 gauge

Finish: G90 galvanized

Design:

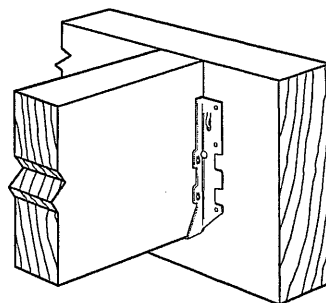
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

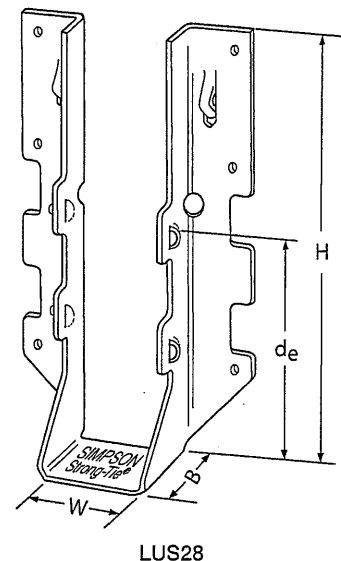
- Use all specified fasteners.
- Nails: 16d = 0.162" dia. x 3½" long common wire, 10d = 0.148" x 3" long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.

Options:

- These hangers cannot be modified

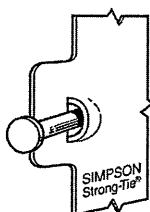


Typical LUS Installation



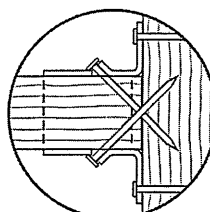
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift	Normal	Uplift	Normal
								(K _p =1.15)	(K _p =1.00)	(K _p =1.15)	(K _p =1.00)
LUS24	18	1⅞	3⅞	1¾	1 15/16	(4) 10d	(2) 10d	710	1630	645	1155
LUS24-2	18	3⅞	3⅞	2	1 13/16	(4) 16d	(2) 16d	835	2020	590	1435
LUS26	18	1⅞	4¾	1¾	3⅞	(4) 10d	(4) 10d	1420	2170	1290	1630
LUS26-2	18	3⅞	4⅞	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
LUS26-3	18	4⅞	4⅞	2	3¼	(4) 16d	(4) 16d	1720	2595	1545	2340
LUS28	18	1⅞	6⅞	1¾	3¾	(6) 10d	(6) 10d	1420	2520	1290	1790
LUS28-2	18	3⅞	7	2	4	(6) 16d	(4) 16d	1720	3325	1545	2575
LUS28-3	18	4⅞	6¼	2	3¼	(6) 16d	(4) 16d	1720	3325	1545	2375
LUS210	18	1⅞	7 13/16	1¾	3⅞	(8) 10d	(4) 10d	1420	2785	1290	2210
LUS210-2	18	3⅞	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
LUS210-3	18	4⅞	8¾	2	5¼	(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.

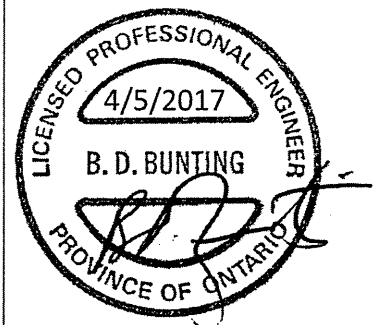


Dome Double Shear Nailing prevents tabs breaking off (available on some models).

U.S. Patent 5,603,580



Double Shear Nailing Top View.



LIMIT STATES DESIGN

This technical bulletin is effective until June 30, 2019, and reflects information available as of March 1, 2017. This information is updated periodically and should not be relied upon after June 30, 2019. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

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T-SPECLUS17 3/17 exp: 6/19

(800) 999-5099
strongtie.com

HUS/LJS – Double Shear Joist Hangers



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

Material: See table

Finish: G90 galvanized

Design:

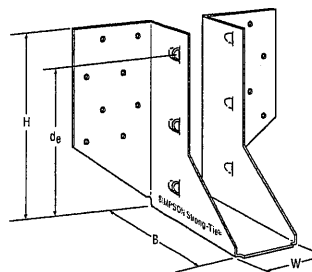
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

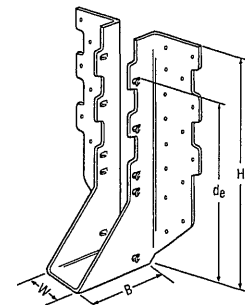
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3½" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

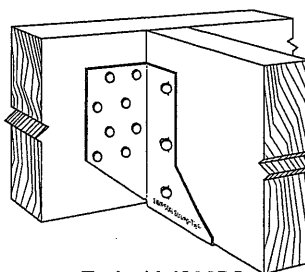
- See current catalogue for options



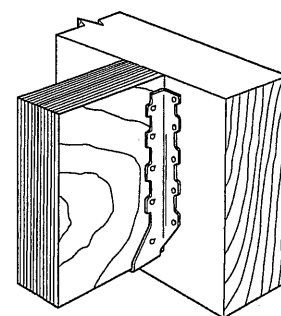
LJS26DS



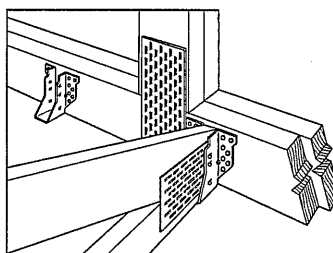
HUS210
(HUS26, HUS28, similar)



Typical LJS26DS
Installation



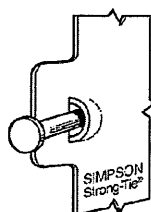
Typical HUS
Installation



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

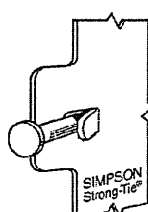
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K ₀ =1.15)	Normal (K ₀ =1.00)	Uplift (K ₀ =1.15)	Normal (K ₀ =1.00)
LJS26DS	18	1⅞	5	3½	4⅝	(16) 16d	(6) 16d	2055	4265	1460	4115
HUS26	16	1⅞	5⅝	3	3⅞	(14) 16d	(6) 16d	2705	4940	2065	3875
HUS28	16	1⅞	7⅝	3	6⅝	(22) 16d	(8) 16d	3605	5365	2675	4345
HUS210	16	1⅞	9⅝	3	7⅞	(30) 16d	(10) 16d	4505	5795	4010	4740
HUS1.81/10	16	1⅞	9	3	8	(30) 16d	(10) 16d	4505	6450	4010	5200

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

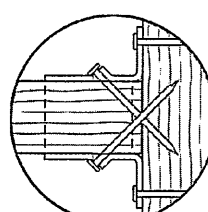


Dome Double Shear Nailing prevents tabs breaking off (available on some models).

U.S. Patent 5,603,580



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



Double Shear Nailing Top View.



LIMIT
STATES
DESIGN

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HHUS – Double Shear Joist Hangers



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

Material: 14 gauge

Finish: G90 galvanized

Design:

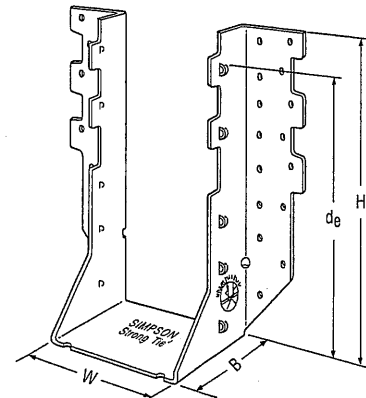
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

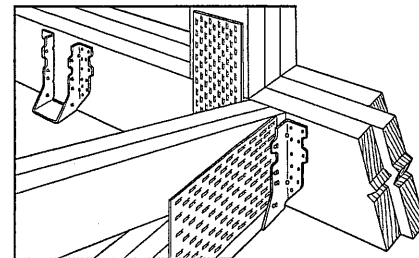
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3½" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

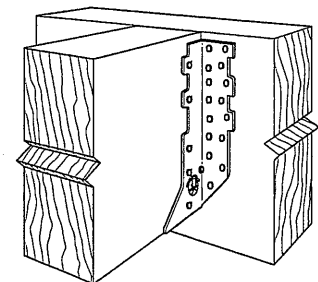
- See current catalogue for options



HHUS410



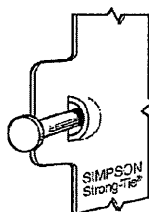
Typical HHUS Installation
(Truss Designer to provide fastener quantity for connecting multiple members together)



Typical HHUS Installation

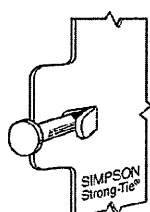
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _b ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K _p =1.15)	Normal (K _p =1.00)	Uplift (K _p =1.15)	Normal (K _p =1.00)
HHUS26-2	14	3 5/16	5 13/16	3	3 15/16	(14) 16d	(6) 16d	2850	7335	2065	5205
HHUS28-2	14	3 5/16	7 7/32	3	6 5/32	(22) 16d	(8) 16d	3765	8940	2675	6345
HHUS210-2	14	3 5/16	9 3/32	3	8	(30) 16d	(10) 16d	4745	9660	4310	7000
HHUS210-3	14	4 11/16	9	3	7 15/16	(30) 16d	(10) 16d	4745	10545	4310	7485
HHUS210-4	14	6 1/8	8 29/32	3	7 27/32	(30) 16d	(10) 16d	4745	10545	4310	7485
HHUS46	14	3 5/8	5 13/32	3	3 15/16	(14) 16d	(6) 16d	2540	7335	2065	5205
HHUS48	14	3 5/8	7 1/8	3	6 1/8	(22) 16d	(8) 16d	3765	8945	2267	6345
HHUS410	14	3 5/8	9	3	8	(30) 16d	(10) 16d	4745	9855	4310	7000
HHUS5.50/10	14	5 1/2	9	3	8	(30) 16d	(10) 16d	4745	10545	4310	7485
HHUS7.25/10	14	7 1/4	9	3 5/16	7 29/32	(30) 16d	(10) 16d	4745	10770	4310	7650

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

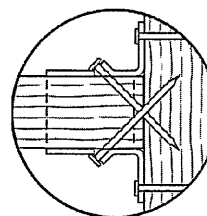


Dome Double Shear Nailing prevents tabs breaking off (available on some models).

U.S. Patent 5,603,580



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



Double Shear Nailing Top View.



LIMIT STATES DESIGN

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HGUS – Double Shear Joist Hangers



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

Material: 12 gauge

Finish: G90 galvanized

Design:

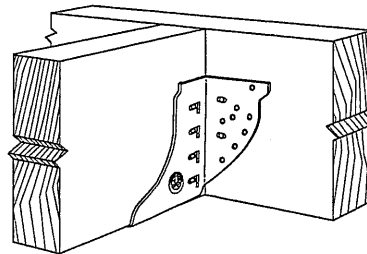
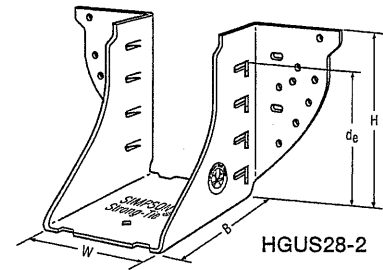
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

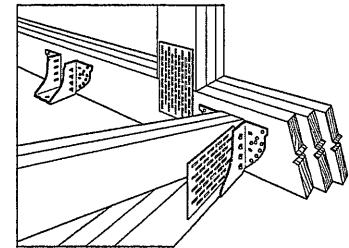
- Use all specified fasteners
- Nails: 16d = 0.162" dia x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

- See current catalogue for options



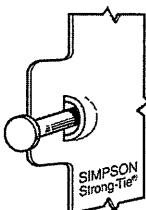
Typical HGUS Installation



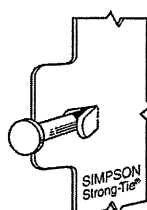
Typical HGUS Installation
(Truss Designer to provide fastener quantity for connecting multiple members together)

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K _p =1.15)	Normal (K _p =1.00)	Uplift (K _p =1.15)	Normal (K _p =1.00)
HGUS26	12	1 5/8	5 3/8	5	4 5/32	(20) 16d	(8) 16d	2685	6625	2685	5700
HGUS26-2	12	3 5/16	5 7/16	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS26-3	12	4 15/16	5 1/2	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS26-4	12	6 9/16	5 7/16	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS28	12	1 5/8	7 1/8	5	6 1/8	(36) 16d	(12) 16d	3310	7675	3100	6900
HGUS28-2	12	3 5/16	7 3/16	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS28-3	12	4 15/16	7 1/4	4	6 3/8	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS28-4	12	6 9/16	7 3/16	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS210-2	12	3 5/16	9 3/16	4	8 1/8	(46) 16d	(16) 16d	6840	14645	4855	10400
HGUS210-3	12	4 15/16	9 1/4	4	8 3/8	(46) 16d	(16) 16d	6840	14645	4855	10400
HGUS210-4	12	6 9/16	9 3/16	4	8 1/8	(46) 16d	(16) 16d	6840	14645	4855	10400
HGUS212-4	12	6 9/16	10 5/8	4	10 1/8	(56) 16d	(20) 16d	7640	14995	5425	10645
HGUS214-4	12	6 9/16	12 5/8	4	11 1/8	(66) 16d	(22) 16d	10130	16400	7195	11645

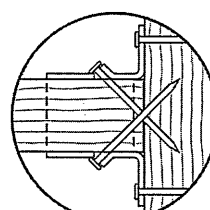
1. d_e is the distance from the seat of the hanger to the highest joist nail.



Dome Double Shear Nailing prevents tabs breaking off (available on some models).
U.S. Patent 5,603,580



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



Double Shear Nailing Top View.



LIMIT STATES DESIGN

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TC – Truss Connectors



The TC truss connector is an ideal connector for scissor trusses and can allow horizontal movement up to 1¼". The TC also attaches plated trusses to top plates or sill plates to resist uplift forces. Typically used on one or both ends of truss as determined by the building designer.

Material: 16 gauge

Finish: G90 galvanized

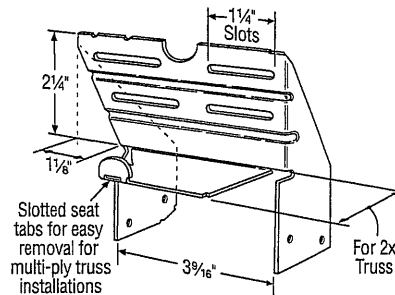
Design: Factored resistances are in accordance with CSA 086-14

Installation:

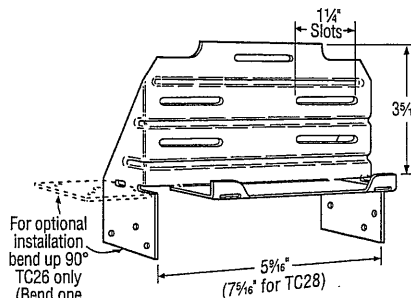
- Use all specified fasteners.
- Nails: 10d = 0.148" dia. x 3" long common wire, 10d x 1½" = 0.148" dia. x 1½" long.
- Drive 10d nails into the truss at the inside end of the slotted holes (inside end is towards the centre of the truss) and clinch on the back side. Do not seat these nails into the truss—allow room under the nail head for movement of the truss with respect to the wall.

Optional TC Installation:

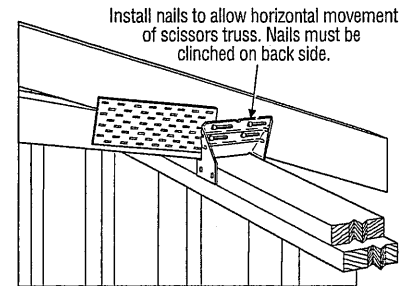
- Bend one flange up 90°. Drive specified nails into the top and face of the top plates or install Titen® screws into the top and face of masonry wall. See optional load tables and installation details.



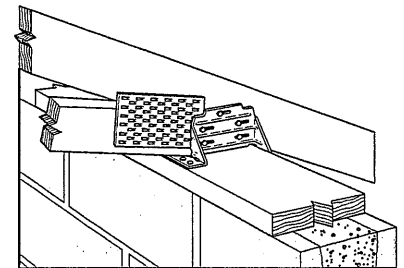
TC24
U.S. Patent 4,932,173



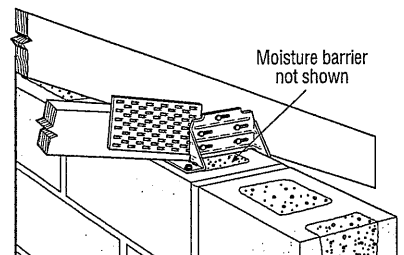
TC26
(TC28 Similar)



Typical TC24 Installation



Optional TC26 Installation for Grouted Concrete Block using a Wood Nailer (8", 10", 12" Wall Installation Similar)



Optional TC26 Installation for Grouted Concrete Block using Titen Screws

Model No.	Fasteners		Factored Resistance	
	Truss	Wall Plates	D.Fir-L	S-P-F
			Uplift (K ₀ =1.15)	Uplift (K ₀ =1.15)
TC24	(4) 10d	(4) 10d	605	430
TC26	(5) 10d	(6) 10d	1015	720
TC28	(5) 10d	(6) 10d	1015	720

Optional TC Installation Table

Model No.	Fasteners		Factored Resistance	
	Truss	Wall Plates	D.Fir-L	S-P-F
			Uplift (K ₀ =1.15)	Uplift (K ₀ =1.15)
TC26	(5) 10d	(6) 10d x 1½"	810	660
	(5) 10d	(6) 10d	930	660

1. Factored resistances have been increased 15% for earthquake or wind loading; no further increase allowed; reduce where other loads govern.
2. Grout strength is 15 MPa minimum.
3. Optional TC26 installation with 10d nails requires minimum 3" top plate thickness.
4. TC26 fastened to grouted concrete block with (6) – ¾" x 2¼" Titen screws has a factored uplift resistance of 275 lb.



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