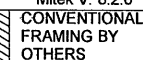


THESE DRAWINGS CONSTITUTE THE PROPERTY OF ALPA ROOF TRUSSES INC., SHALL NOT BE REPRODUCED, PUBLISHED, OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY ALPA ROOF TRUSSES INC AND WILL BE RETRACTED BY ALPA ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.



EWP DESIGN INC.

(905) 832-2250

FAX (905) 832-0286

RESPONSIBILITIES AND SPECIFICATIONS

RESPONSIBILITIES

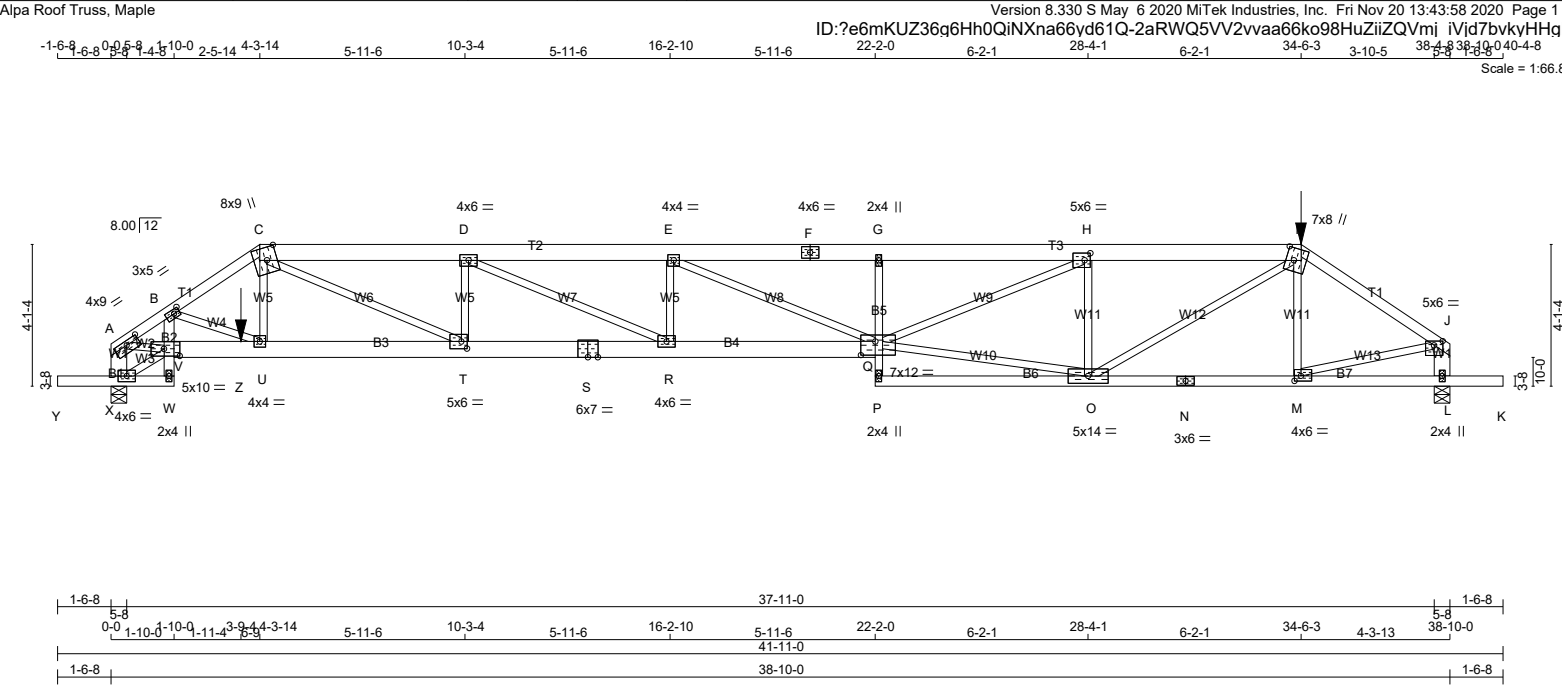
1. EWP DESIGN INC. is responsible for the design of trusses as individual components.
2. It is the responsibility of others to ascertain that the design loads utilized on each drawing meet or exceed the actual dead load imposed by the structure, the live load imposed by the intended use and the snow 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.

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324082	H01T		2	TRUSS DESC. JT 45147	E20115161



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - C 2x4 DRY No.2 SPF C - F 2x6 DRY No.2 SPF F - I 2x6 DRY No.2 SPF I - J 2x4 DRY No.2 SPF X - A 2x6 DRY No.2 SPF L - J 2x6 DRY No.2 SPF Y - W 2x4 DRY No.2 SPF W - B 2x4 DRY No.2 SPF V - S 2x6 DRY No.2 SPF S - Q 2x6 DRY No.2 SPF P - G 2x3 DRY No.2 SPF N - N 2x4 DRY No.2 SPF N - K 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER. DESIGN CONSISTS OF <u>2</u> TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS: CHORDS #ROWS SURFACE SPACING (IN) LOAD(PLF) TOP CHORDS : (0.122"x3") SPIRAL NAILS A - C 1 12 TOP I - J 1 12 SIDE(61.0) C - F 2 12 TOP F - I 2 12 SIDE(37.8) X - A 2 12 TOP L - J 2 12 TOP BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS Y - W 1 12 SIDE(10.5) W - B 1 12 TOP P - N 1 12 SIDE(10.0) N - K 1 12 SIDE(10.0) V - S 2 12 SIDE(46.7) S - Q 2 12 SIDE(46.7) G - P 1 12 TOP WEBS : (0.122"x3") SPIRAL NAILS M - I 1 6 SIDE(26.3) 2x3 1 6 NAILS TO BE DRIVEN FROM ONE SIDE ONLY.			DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT BRG REQ'D BRG JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX X 3991 0 3991 0 0 5-8 2-2 L 3774 0 3774 0 0 5-8 2-0 <u>ALLOW FOR 0.3" OF HORIZONTAL MOVEMENT DUE TO TOTAL LOAD</u> UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL X 2844 1746 / 0 0 / 0 0 / 0 1098 / 0 0 / 0 L 2692 1636 / 0 0 / 0 0 / 0 1057 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) X, L BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.14 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS MAX. FACTORED FACTORED WEBS 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 -6276 / 0 -78.0 -78.0 0.19 (1) 3.77 B - U 0 / 33 0.00 (1) B - C -6502 / 0 -78.0 -78.0 0.23 (1) 3.67 U - C 0 / 983 0.12 (1) C - D -10279 / 0 -78.0 -78.0 0.32 (1) 3.64 C - T 0 / 5310 0.66 (1) D - E -12725 / 0 -78.0 -78.0 0.43 (1) 3.22 T - D -1689 / 0 0.16 (1) E - F -12699 / 0 -78.0 -78.0 0.45 (1) 3.21 D - R 0 / 2706 0.33 (1) F - G -12699 / 0 -78.0 -78.0 0.45 (1) 3.21 R - E -445 / 0 0.04 (1) G - H -12616 / 0 -153.5 -153.5 0.52 (1) 3.14 E - Q -31 / 0 0.01 (4) H - I -7820 / 0 -153.5 -153.5 0.32 (1) 4.08 Q - O 0 / 7743 0.96 (1) I - J -4709 / 0 -78.0 -78.0 0.25 (1) 4.24 Q - H 0 / 5183 0.64 (1) X - A -3594 / 0 0.0 0.0 0.13 (1) 7.40 O - H -3318 / 0 0.42 (1) L - J -3565 / 0 0.0 0.0 0.13 (1) 7.42 O - I 0 / 4595 0.57 (1) Y - X 0 / 0 -96.5 -96.5 0.09 (1) 10.00 M - I -594 / 0 0.08 (1) X - W 0 / 279 -37.3 -37.3 0.11 (1) 10.00 M - J 0 / 4010 0.50 (1) W - V -37 / 0 0.0 0.0 0.10 (1) 7.81 A - V 0 / 5108 0.64 (1) I - S 0 / 10279 -112.0 -112.0 0.80 (1) 10.00 S - R 0 / 10279 -112.0 -112.0 0.80 (1) 10.00 R - Q 0 / 12725 -112.0 -112.0 0.99 (1) 10.00 P - Q 0 / 102 0.0 0.0 0.35 (1) 10.00 Q - G -623 / 0 0.0 0.0 0.35 (1) 7.81 P - O 0 / 254 -36.4 -36.4 0.18 (4) 10.00 O - N 0 / 3913 -36.4 -36.4 0.42 (1) 10.00 N - M 0 / 3913 -36.4 -36.4 0.42 (1) 10.00 M - L 0 / 0 -36.4 -36.4 0.11 (4) 10.00 L - K 0 / 0 -96.5 -96.5 0.09 (1) 10.00 FACTORED CONCENTRATED LOADS (LBS) JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE HEEL CONN. I 34-6-3 -245 -245 --- FRONT VERT TOTAL --- C1 Z 3-9-4 -455 -455 --- FRONT VERT TOTAL --- C1 CONNECTION REQUIREMENTS 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.			DESIGN CRITERIA *** SPECIAL LOADS ANALYSIS *** GEOMETRY AND/OR BASIC LOADS CHANGED BY USER. LOADS WERE DERIVED FROM USER INPUT NO FURTHER MODIFICATIONS WERE MADE SPECIFIED LOADS: TOP CH. LL = 21.0 PSF DL = 6.0 PSF BOT CH. LL = 0.0 PSF DL = 7.4 PSF TOTAL LOAD = 34.4 PSF SPACING = 24.0 IN. C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM GIRDER TYPE: CStdGirder START DISTANCE = 3-9-4 RIGHT SETBACK = 5-10-8 END DISTANCE = 22-2-0 END SPAN CARRIED = 5-10-8 END WALL WIDTH = 0-0 APPLIED TO FRONT SIDE OF BOTTOM CHORD. - ADDT'L LOADS BASED ON 55 % OF GSL. (DEFINED BY USER) GIRDER TYPE: CPrimeHip LEFT SETBACK = 4-3-14 RIGHT SETBACK = 4-3-13 END DISTANCE = 5-10-8 END WALL WIDTH = 0-0 CORNER FRAMING TYPE: CONVENTIONAL END JACK TYPE: CONVENTIONAL APPLIED TO FRONT SIDE - ADDT'L LOADS BASED ON 55 % OF GSL. LOADS APPLIED TO FIRST 16-8-0 OF SPAN MEASURED FROM THE RIGHT. *** NON STANDARD GIRDER *** ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES. THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF CBC 2018 , ABC 2019 - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 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 (1.29") CALCULATED VERT. DEFL.(LL)= L/ 999 (0.45") ALLOWABLE DEFL.(TL)= L/360 (1.29") CALCULATED VERT. DEFL.(TL)= L/ 526 (0.89") CANTILEVER DEFLECTION: ALLOWABLE DEFL.(LL)= L/120 (0.19") CALCULATED VERT. DEFL.(LL)= L/ 332 (0.06") CONTINUED ON PAGE 2		
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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324082	H01T		2	TRUSS DESC.	

Alpa Roof Truss, Maple

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	4.0	9.0	1.50	4.50
B	TMVW-t	MT20	3.0	5.0	1.50	2.00
C	TTWW+m	MT20	8.0	9.0	4.50	3.50
D	TMWW-t	MT20	4.0	6.0		
E	TMWW-t	MT20	4.0	4.0		
F	TS-t	MT20	4.0	6.0		
G	TMV+p	MT20	2.0	4.0		
H	TMWW-t	MT20	5.0	6.0	2.50	2.00
I	TTWW+m	MT20	7.0	8.0	4.25	2.75
J	TMVW-p	MT20	5.0	6.0	1.50	3.00
L	BMV1+p	MT20	2.0	4.0		
M	BMWW-t	MT20	4.0	6.0	1.75	2.25
N	BS-t	MT20	3.0	6.0		
O	BMWWW-t	MT20	5.0	14.0		
P	BMV+p	MT20	2.0	4.0		
Q	BVMWWW-l	MT20	7.0	12.0	4.75	5.00
R	BMWW-t	MT20	4.0	6.0		
S	BS-t	MT20	6.0	7.0		
T	BMWW-t	MT20	5.0	6.0	2.50	2.00
U	BMWW-t	MT20	4.0	4.0		
V	BVMWWW-l	MT20	5.0	10.0	2.50	5.50
W	BMV+p	MT20	2.0	4.0		
X	BMVW1-t	MT20	4.0	6.0		

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

ALLOWABLE DEFL.(TL)= L/120 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 168 (0.11")

CSI: TC=0.52/1.00 (G-H:1) , BC=0.99/1.00 (Q-R:1) ,
WB=0.96/1.00 (O-Q:1) , SSI=0.19/1.00 (U-V: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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (A) (INPUT = 0.90)
JSI METAL= 0.84 (S) (INPUT = 1.00)

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



Scale = 1:66.8

JSI GRIP= 0.89 (Q) (INPUT = 0.90)
JSI METAL= 0.82 (S) (INPUT = 1.00)

Scale = 1:66.8



DRY: SEASONED LUMBER.

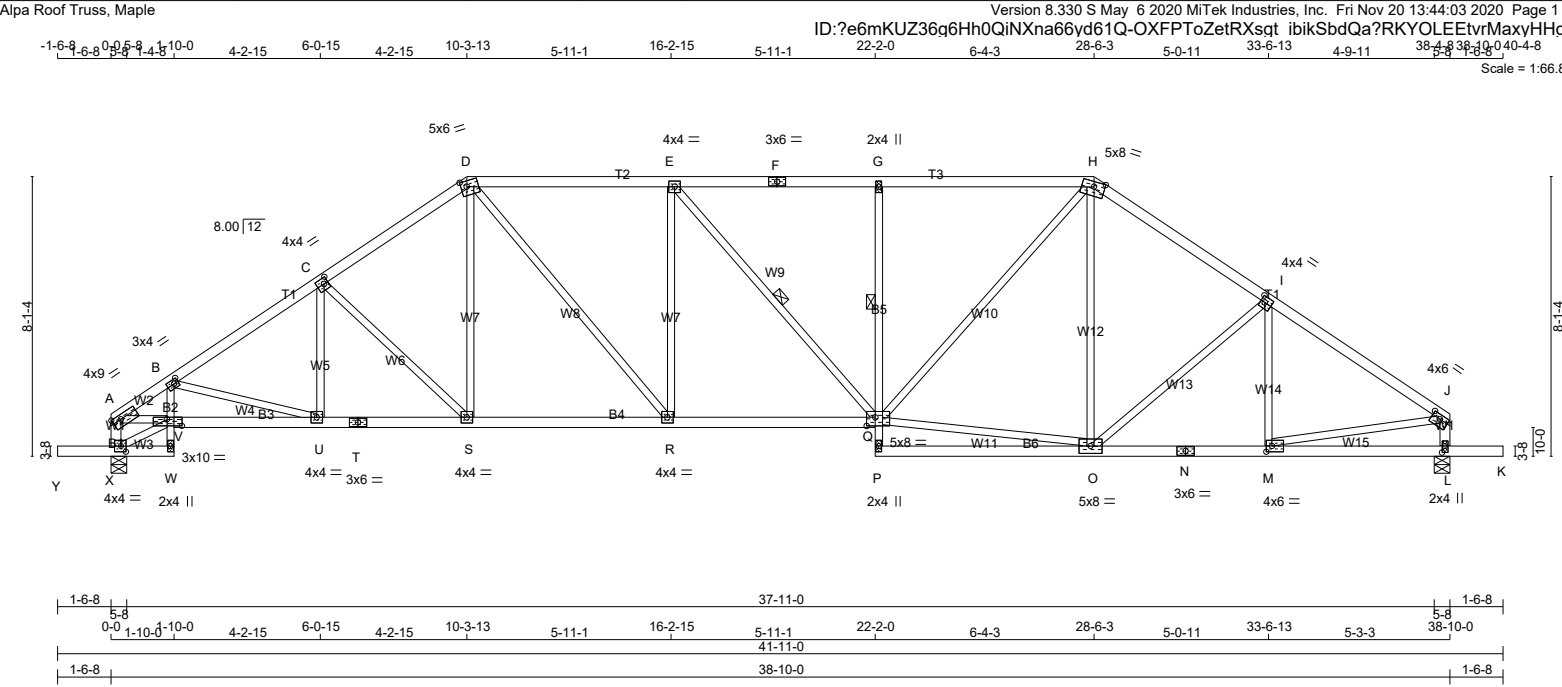
CONTINUED ON PAGE 2

Scale = 1:66.8



JSI GRIP= 0.89 (A) (INPUT = 0.90)
JSI METAL= 0.69 (A) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324082	H05T		1	TRUSS DESC. JT 45147	E20115165



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - D 2x4 DRY No.2 SPF D - F 2x4 DRY No.2 SPF F - H 2x4 DRY No.2 SPF H - J 2x4 DRY No.2 SPF X - A 2x4 DRY No.2 SPF L - J 2x4 DRY No.2 SPF Y - W 2x4 DRY No.2 SPF W - B 2x3 DRY No.2 SPF V - T 2x4 DRY No.2 SPF T - Q 2x4 DRY No.2 SPF P - G 2x3 DRY No.2 SPF N - N 2x4 DRY No.2 SPF N - K 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 IN-SX X 2025 0 2025 0 0 5-8 2-2 L 2019 0 2019 0 0 5-8 3-0 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL X 1444 881 / 0 0 / 0 0 / 0 563 / 0 0 / 0 L 1439 879 / 0 0 / 0 0 / 0 561 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) X, L BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.88 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. 1 LATERAL BRACE(S) AT 1/2 LENGTH OF G-Q, E-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) CHORDS WEBS MEMB. MAX. FACTORED FORCE VERT. LOAD (LBS) FACTORED VERT. LOAD (PLF) MAX. CSF (LC) MAX. UNBRACED LENGTH FR-TO MEMB. MAX. FACTORED FORCE VERT. LOAD (LBS) MAX. CSF (LC) FR-TO FROM TO A-B -2959 / 0 -78.0 -78.0 0.11 (1) 3.99 B-U -163 / 0 0.06 (1) B-C -2805 / 0 -78.0 -78.0 0.28 (1) 3.95 U-C 0 / 110 0.04 (4) C-D -2460 / 0 -78.0 -78.0 0.25 (1) 4.20 C-S -443 / 0 0.28 (1) D-E -2573 / 0 -78.0 -78.0 0.42 (1) 3.94 S-D 0 / 401 0.09 (1) E-F -2583 / 0 -78.0 -78.0 0.42 (1) 3.94 D-R 0 / 835 0.19 (1) F-G -2583 / 0 -78.0 -78.0 0.42 (1) 3.94 R-E -512 / 0 0.48 (1) G-H -2580 / 0 -78.0 -78.0 0.47 (1) 3.88 E-Q -6 / 15 0.00 (4) H-I -2222 / 0 -78.0 -78.0 0.34 (1) 4.28 Q-O 0 / 1811 0.41 (1) I-J -2364 / 0 -78.0 -78.0 0.36 (1) 4.16 Q-H 0 / 1132 0.25 (1) X-A -1768 / 0 0.0 0.0 0.18 (1) 6.27 O-H 0 / 89 0.03 (4) L-J -1826 / 0 0.0 0.0 0.19 (1) 6.20 O-I -217 / 0 0.19 (1) M-L -249 / 0 0.08 (1) N-K -249 / 0 45 (1) O-P -249 / 0 01 (1) P-Q -249 / 0 56 (1) V-U 0 / 2348 -18.5 -18.5 0.43 (1) 10.00 U-T 0 / 2348 -18.5 -18.5 0.43 (1) 10.00 T-S 0 / 2348 -18.5 -18.5 0.43 (1) 10.00 S-R 0 / 2032 -18.5 -18.5 0.41 (1) 10.00 R-Q 0 / 2573 -18.5 -18.5 0.50 (1) 10.00 P-Q 0 / 52 0.0 0.0 0.08 (1) 10.00 Q-G -522 / 0 0.0 0.0 0.10 (1) 6.25 P-O 0 / 29 -18.5 -18.5 0.16 (4) 10.00 O-N 0 / 1989 -18.5 -18.5 0.41 (1) 10.00 N-M 0 / 1989 -18.5 -18.5 0.41 (1) 10.00 M-L 0 / 0 -18.5 -18.5 0.11 (4) 10.00 L-K 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 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 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 (1.29") CALCULATED VERT. DEFL.(LL) = L/999 (0.15") ALLOWABLE DEFL.(TL)= L/360 (1.29") CALCULATED VERT. DEFL.(TL) = L/999 (0.32") CANTILEVER DEFLECTION: ALLOWABLE DEFL.(LL)= L/120 (0.19") CALCULATED VERT. DEFL.(LL) = L/767 (0.02") ALLOWABLE DEFL.(TL)= L/120 (0.19") CALCULATED VERT. DEFL.(TL) = L/379 (0.05") CSI: TC=0.47/1.00 (G-H:1), BC=0.50/1.00 (Q-R:1), WB=0.56/1.00 (A-V:1), SSI=0.23/1.00 (G-H:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 1.00 AUTOSOLVE RIGHT HEEL ONLY TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT. NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.90 (M) (INPUT = 0.90) JSI METAL= 0.70 (V) (INPUT = 1.00)					TOTAL WEIGHT = 176 lb [M][F]				
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LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



E20115166

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TOTAL WEIGHT = 7 X 175 = 1225 lb

DRY: SEASONED LUMBER.

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

TOTAL LOAD CASES: (4)

L- R	0 / 1630	-18.5	-18.5	0.41 (1)	10.00
K- J	0 / 2083	-18.5	-18.5	0.43 (1)	10.00
J- I	0 / 0	-18.5	-18.5	0.14 (4)	10.00
I- H	0 / 0	-96.5	-96.5	0.16 (1)	10.00

PLATE ROTATION TOL. = 5.0 Deg.

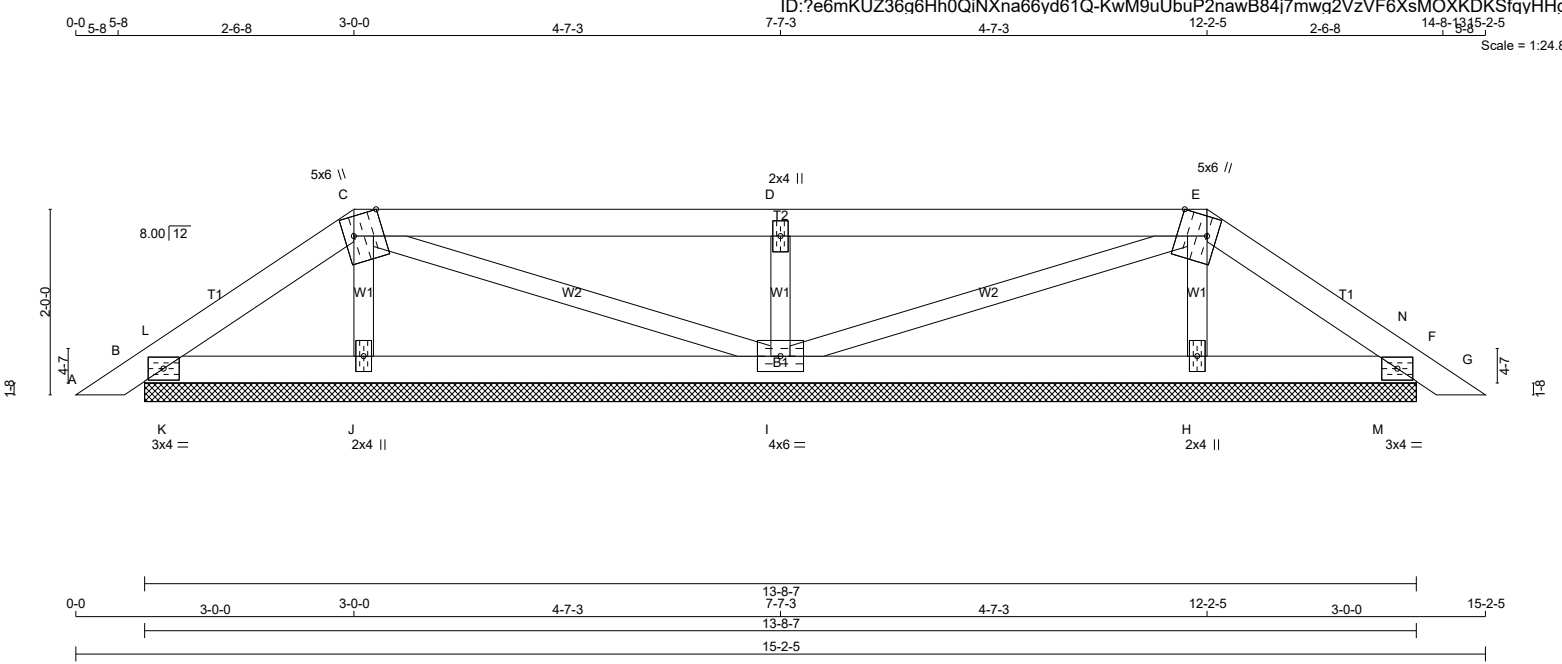
JSI GRIP= 0.85 (J) (INPUT = 0.90)
JSI METAL= 0.62 (N) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324082	H07P		1	TRUSS DESC. JT 45147	E20115167

Alpa Roof Truss, Maple

ID: ?e6mKUZ36q6Hh0QINXna66yd61Q-KwM9uUbuP2nawB84i7mwg2VzVF6XsMOXKDKSfqyHHg8

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LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - C 2x4 DRY No.2 SPF C - E 2x4 DRY No.2 SPF E - G 2x4 DRY No.2 SPF B - F 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF DRY: SEASONED LUMBER.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><th></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>JT</th><th>VERT</th><th>HORZ</th><th>DOWN</th><th>HORZ</th><th>UPLIFT</th><th>IN-SX</th><th>IN-SX</th></tr><tr><td>B</td><td>175</td><td>0</td><td>175</td><td>0</td><td>0</td><td>13-8-7</td><td>1-4-7</td></tr><tr><td>F</td><td>175</td><td>0</td><td>175</td><td>0</td><td>0</td><td>13-8-7</td><td>1-4-7</td></tr><tr><td>J</td><td>265</td><td>0</td><td>265</td><td>0</td><td>0</td><td>13-8-7</td><td>1-4-7</td></tr><tr><td>I</td><td>545</td><td>0</td><td>545</td><td>0</td><td>0</td><td>13-8-7</td><td>1-4-7</td></tr><tr><td>H</td><td>265</td><td>0</td><td>265</td><td>0</td><td>0</td><td>13-8-7</td><td>1-4-7</td></tr></table>								FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	B	175	0	175	0	0	13-8-7	1-4-7	F	175	0	175	0	0	13-8-7	1-4-7	J	265	0	265	0	0	13-8-7	1-4-7	I	545	0	545	0	0	13-8-7	1-4-7	H	265	0	265	0	0	13-8-7	1-4-7	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		
	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG																																																															
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX																																																														
B	175	0	175	0	0	13-8-7	1-4-7																																																														
F	175	0	175	0	0	13-8-7	1-4-7																																																														
J	265	0	265	0	0	13-8-7	1-4-7																																																														
I	545	0	545	0	0	13-8-7	1-4-7																																																														
H	265	0	265	0	0	13-8-7	1-4-7																																																														

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TTWW+m	MT20	5.0	6.0	Edge	3.75
D	TMW+w	MT20	2.0	4.0		
E	TTWW+m	MT20	5.0	6.0	Edge	3.75
F	TMB1-I	MT20	3.0	4.0		
H	BMW1+w	MT20	2.0	4.0		
I	BMW1+w	MT20	4.0	6.0		
J	BMW1+w	MT20	2.0	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.
324082	H08P		1	TRUSS DESC. JT 45147	E20115168

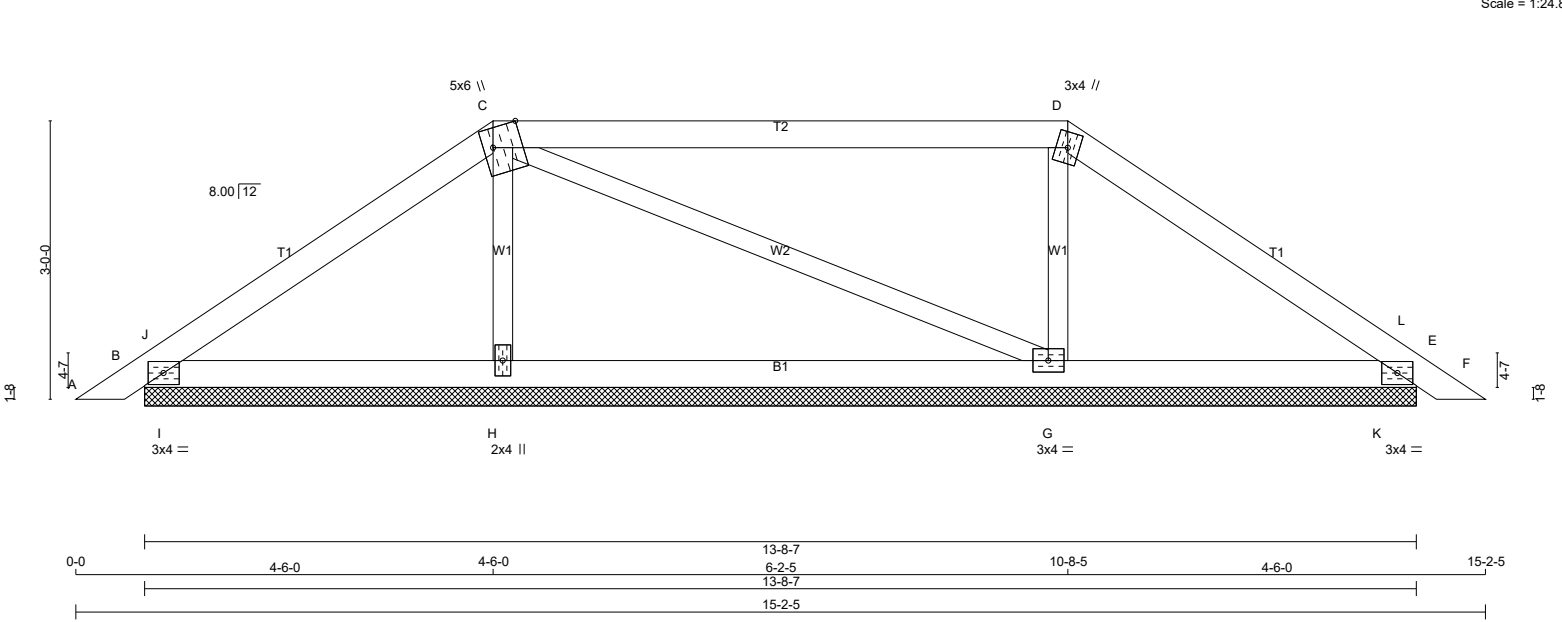
Alpa Roof Truss, Maple

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0-05-84-084-606-2510-854-0814-81345-2-5

Scale = 1:24.8



TOTAL WEIGHT = 44 lb

[M]

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.									SPECIFIED LOADS:			
A - C	2x4	DRY	No.2		SPF									TOP CH. LL =	21.0	PSF	
C - D	2x4	DRY	No.2		SPF									DL =	6.0	PSF	
D - F	2x4	DRY	No.2		SPF									BOT CH. LL =	0.0	PSF	
B - E	2x4	DRY	No.2		SPF									DL =	7.4	PSF	
														TOTAL LOAD =	34.4	PSF	
ALL WEBS 2x3 DRY: SEASONED LUMBER.														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=0.51/1.00 (C-D:1), BC=0.13/1.00 (B-I:1), WB=0.05/1.00 (D-G:1), SSI=0.21/1.00 (E-K: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			

UNFACTORED REACTIONS									
1ST LCASE		MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
B	201	140 / 0	0 / 0	0 / 0	0 / 0	60 / 0	0 / 0		
E	191	133 / 0	0 / 0	0 / 0	0 / 0	58 / 0	0 / 0		
H	300	170 / 0	0 / 0	0 / 0	0 / 0	130 / 0	0 / 0		
G	323	188 / 0	0 / 0	0 / 0	0 / 0	135 / 0	0 / 0		

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 13	-78.0	-78.0 0.03 (1)	10.00	H-C	-290 / 0	0.05 (1)
B-J	-47 / 0	-78.0	-78.0 0.05 (1)	6.25	C-G	-24 / 0	0.02 (1)
J-C	-125 / 0	-78.0	-78.0 0.13 (1)	6.25	G-D	-313 / 0	0.05 (1)
C-D	-65 / 0	-78.0	-78.0 0.51 (1)	6.25	I-J	-269 / 0	0.00 (1)
D-L	-100 / 0	-78.0	-78.0 0.13 (1)	6.25	K-L	-271 / 0	0.00 (1)
L-E	-20 / 0	-78.0	-78.0 0.05 (1)	6.25			
E-F	0 / 13	-78.0	-78.0 0.03 (1)	10.00			
B-I	0 / 98	-18.5	-18.5 0.13 (1)	10.00			
I-H	0 / 98	-18.5	-18.5 0.13 (1)	10.00			
H-G	0 / 87	-18.5	-18.5 0.12 (4)	10.00			
G-K	0 / 77	-18.5	-18.5 0.12 (4)	10.00			
K-F	0 / 77	-18.5	-18.5 0.12 (4)	10.00			

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

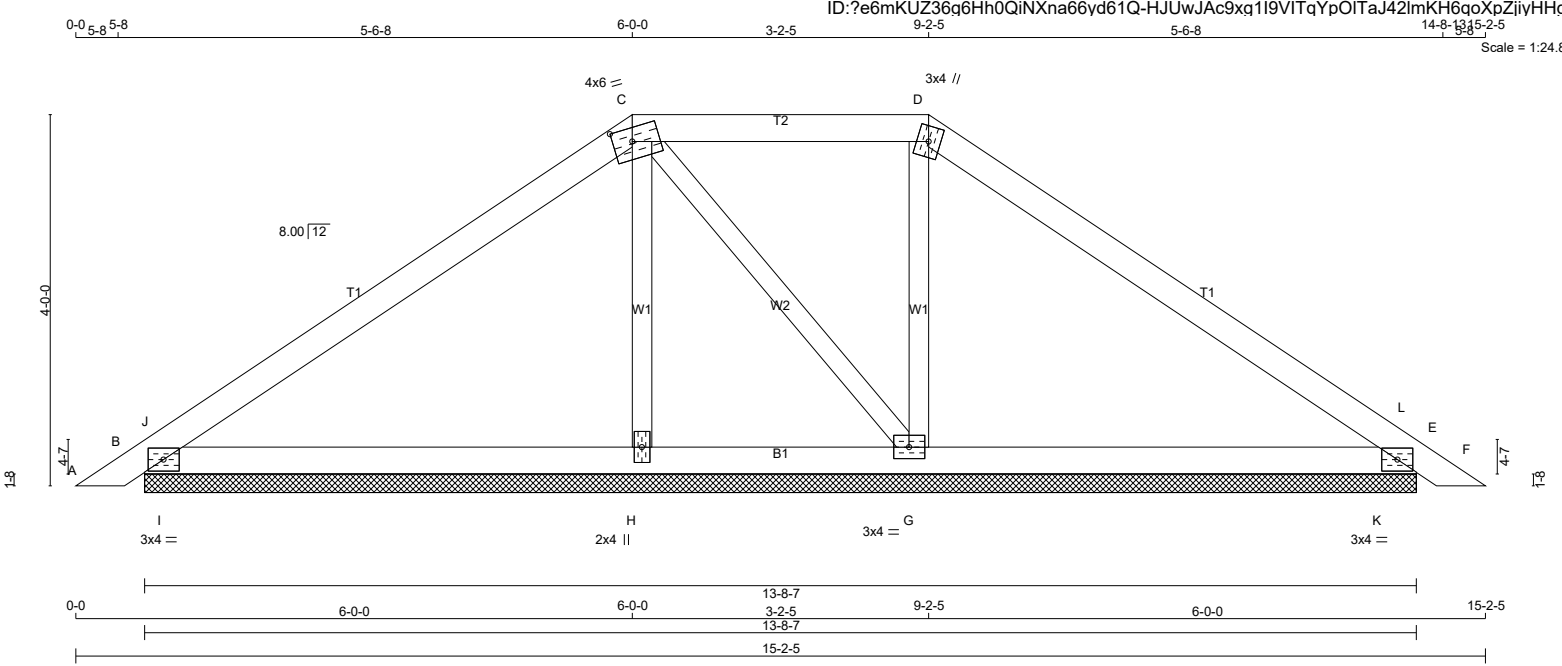
LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324082	H09P		1	TRUSS DESC. JT 45147	E20115169

Alpa Roof Truss, Maple

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LUMBER						DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER								DESIGN CRITERIA				[M]				
N. L. G. A. RULES		CHORDS		SIZE	LUMBER	DESCR.	BEARINGS		FACTORED		MAXIMUM		FACTORED		INPUT	REQRD	SPECIFIED LOADS:					
							GROSS REACTION		GROSS REACTION		DOWN		HORIZ		UPLIFT	BRG	BRG	TOP	CH.	LL		
A - C	2x4	DRY	No.2		SPF	JT	VERT	HORZ										DL	=	21.0	PSF	
C - D	2x4	DRY	No.2		SPF	B	401	0	401	0	0	13-8-7	1-4-14					DL	=	6.0	PSF	
D - F	2x4	DRY	No.2		SPF	E	380	0	380	0	0	13-8-7	1-4-14					DL	=	0.0	PSF	
B - E	2x4	DRY	No.2		SPF	H	273	0	273	0	0	13-8-7	1-4-14					DL	=	7.4	PSF	
ALL WEBS 2x3 DRY: SEASONED LUMBER.						SPF	G	372	0	372	0	0	13-8-7	1-4-14				TOTAL LOAD = 34.4 PSF				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-I	MT20	3.0	4.0	
C	TTWW-m	MT20	4.0	6.0	1.75 2.50
D	TTW+m	MT20	3.0	4.0	
E	TMB1-I	MT20	3.0	4.0	
G	BMW1-t	MT20	3.0	4.0	
H	BMW1+w	MT20	2.0	4.0	

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



UNFACTORED REACTIONS				BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, E, H, G			
1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	284	187 / 0	0 / 0	0 / 0	0 / 0	96 / 0	0 / 0
E	269	175 / 0	0 / 0	0 / 0	0 / 0	94 / 0	0 / 0
H	197	107 / 0	0 / 0	0 / 0	0 / 0	90 / 0	0 / 0
G	265	162 / 0	0 / 0	0 / 0	0 / 0	103 / 0	0 / 0
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)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 13	-78.0 -78.0	0.03 (1)	10.00	H-C	-154 / 0	0.04 (1)
B-J	-69 / 0	-78.0 -78.0	0.12 (1)	6.25	C-G	-51 / 0	0.02 (1)
J-C	-204 / 0	-78.0 -78.0	0.27 (1)	6.25	G-D	-214 / 0	0.05 (1)
C-D	-124 / 0	-78.0 -78.0	0.14 (1)	6.25	I-J	-475 / 0	0.00 (1)
D-L	-166 / 0	-78.0 -78.0	0.27 (1)	6.25	K-L	-478 / 0	0.00 (1)
L-E	-62 / 8	-78.0 -78.0	0.12 (1)	6.25			
E-F	0 / 13	-78.0 -78.0	0.03 (1)	10.00			
B-I	0 / 162	-18.5 -18.5	0.22 (1)	10.00			
I-H	0 / 162	-18.5 -18.5	0.22 (1)	10.00			
H-G	0 / 157	-18.5 -18.5	0.14 (1)	10.00			
G-K	0 / 130	-18.5 -18.5	0.22 (1)	10.00			
K-F	0 / 130	-18.5 -18.5	0.22 (1)	10.00			

CSI: TC=0.27/1.00 (C-J:1), BC=0.22/1.00 (H-I:1), WB=0.05/1.00 (D-G:1), SSI=0.38/1.00 (E-K: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

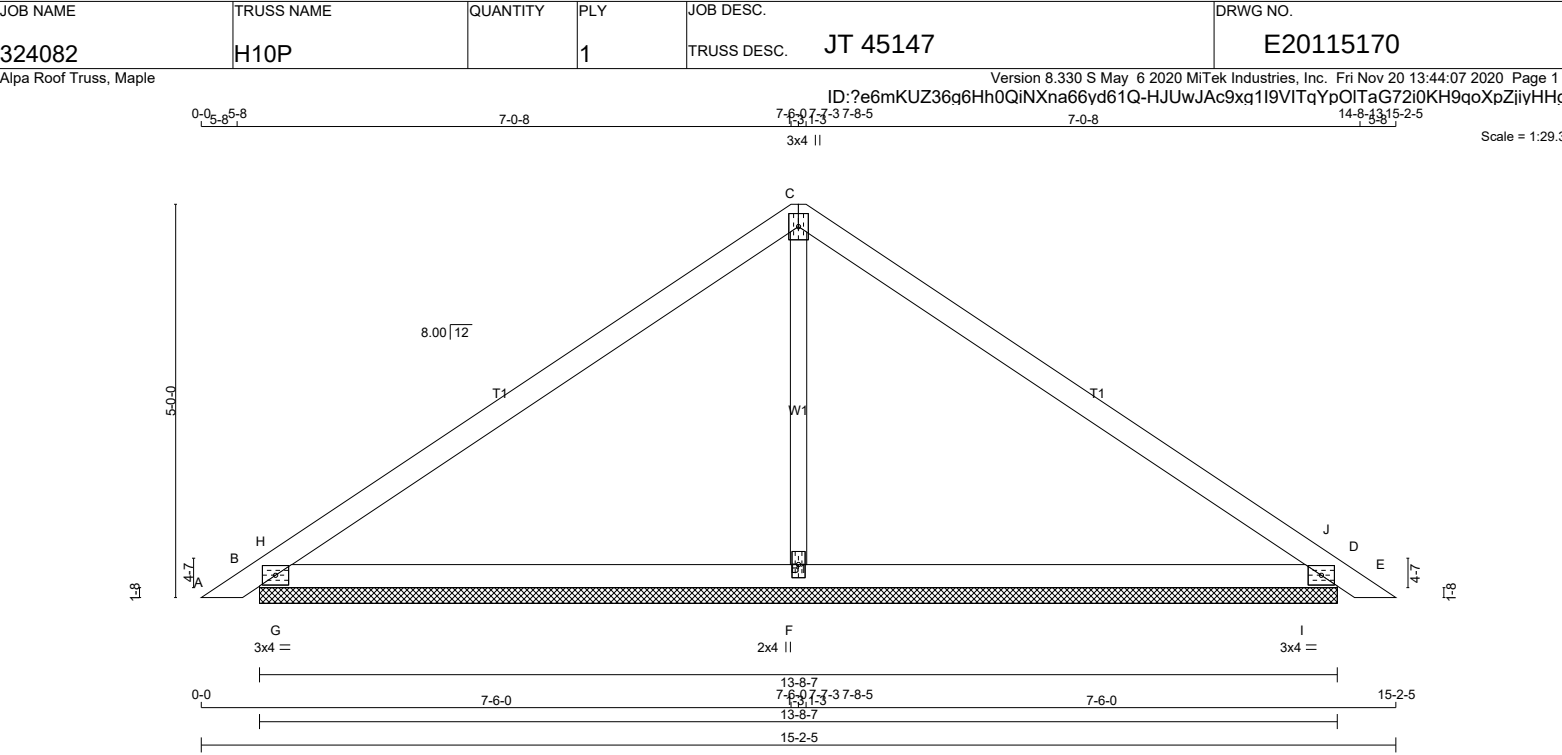
PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
	MAX MIN	MAX MIN	MAX MIN
MT20	650 371	1747 788	1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.32 (B) (INPUT = 0.90)

JSI METAL= 0.09 (B) (INPUT = 1.00)



LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TTW+p	MT20	3.0	4.0		
D	TMB1-I	MT20	3.0	4.0		
F	BMW1+w	MT20	2.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
B	506	506	13-8-7	2-1-10
D	506	506	13-8-7	2-1-10
F	413	413	13-8-7	2-1-10

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	357	237 / 0	0 / 0	0 / 0	0 / 0	120 / 0	0 / 0
D	357	237 / 0	0 / 0	0 / 0	0 / 0	120 / 0	0 / 0
F	299	156 / 0	0 / 0	0 / 0	0 / 0	143 / 0	0 / 0

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	LC1 MAX		
FR-TO		FROM TO	CSI (LC)		FR-TO		CSI (LC)		
A-B	0 / 13	-78.0	-78.0	0.03 (1)	10.00	F-C	-136 / 0	0.05 (1)	
B-H	-61 / 96	-78.0	-78.0	0.28 (1)	6.25	G-H	-889 / 0	0.00 (1)	
H-C	-301 / 0	-78.0	-78.0	0.46 (1)	6.25	I-J	-889 / 0	0.00 (1)	
C-J	-301 / 0	-78.0	-78.0	0.46 (1)	6.25				
J-D	-61 / 96	-78.0	-78.0	0.28 (1)	6.25				
D-E	0 / 13	-78.0	-78.0	0.03 (1)	10.00				
B-G	0 / 236	-18.5	-18.5	0.40 (1)	10.00				
G-F	0 / 236	-18.5	-18.5	0.40 (1)	10.00				
F-I	0 / 236	-18.5	-18.5	0.40 (1)	10.00				
I-D	0 / 236	-18.5	-18.5	0.40 (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

(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=0.46/1.00 (C-H:1) , BC=0.40/1.00 (F-G:1) , WB=0.05/1.00 (C-F:1) , SSI=0.68/1.00 (D-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)
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.43 (B) (INPUT = 0.90)

JSI METAL= 0.12 (D) (INPUT = 1.00)

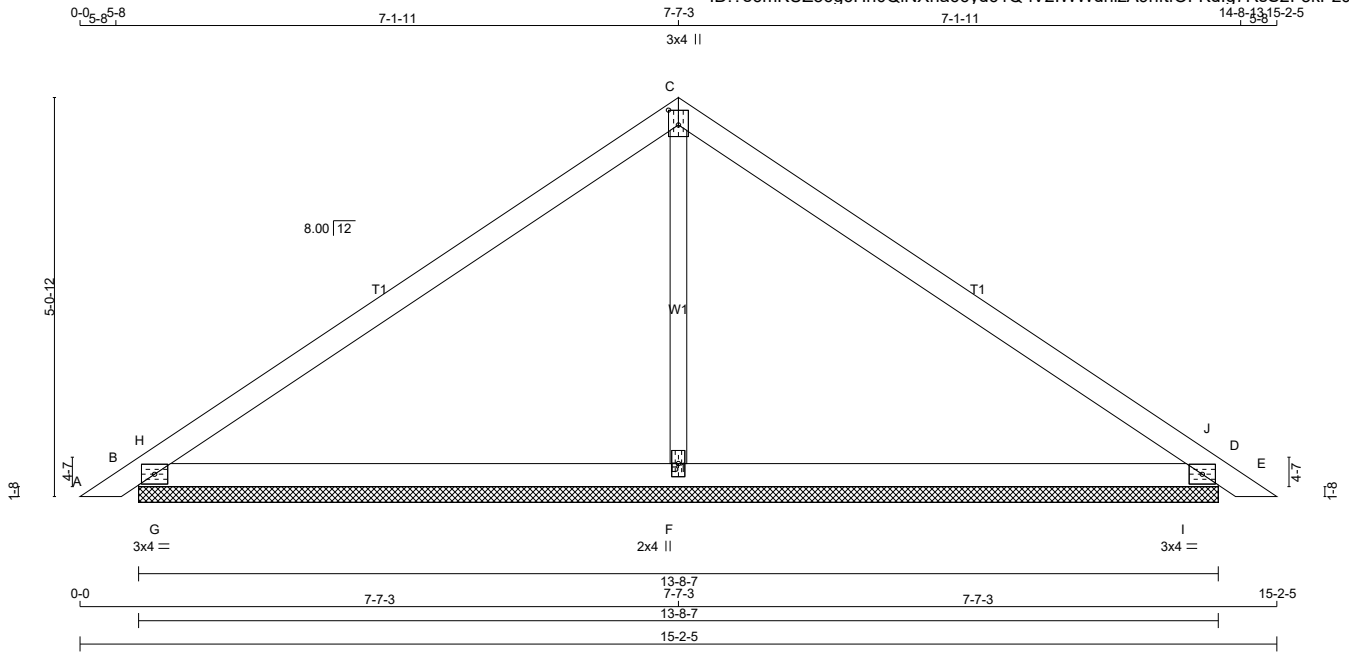
LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2



Alpa Roof Truss, Maple

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scale = 1:29.2



TOTAL WEIGHT = 40 lb

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TTW+p	MT20	3.0	4.0	2.25	1.50
D	TMB1-I	MT20	3.0	4.0		
F	BMW1+w	MT20	2.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ UPLIFT	IN-SX	IN-SX
B	506	0	506	0 0	13-8-7	2-1-10
D	506	0	506	0 0	13-8-7	2-1-10
F	413	0	413	0 0	13-8-7	2-1-10

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	357	237 / 0	0 / 0	0 / 0	0 / 0	120 / 0	0 / 0
D	357	237 / 0	0 / 0	0 / 0	0 / 0	120 / 0	0 / 0
F	299	156 / 0	0 / 0	0 / 0	0 / 0	143 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX FACTORED CSI (LC)
FR-TO		FROM TO			FR-TO		
A- B	0 / 13	-78.0	-78.0	0.03 (1)	10.00	F- C	-136 / 0 0.05 (1)
B- H	-61 / 96	-78.0	-78.0	0.28 (1)	6.25	G- H	-889 / 0 0.00 (1)
H- C	-301 / 0	-78.0	-78.0	0.46 (1)	6.25	I- J	-889 / 0 0.00 (1)
C- J	-301 / 0	-78.0	-78.0	0.46 (1)	6.25		
J- D	-61 / 96	-78.0	-78.0	0.28 (1)	6.25		
D- E	0 / 13	-78.0	-78.0	0.03 (1)	10.00		
B- G	0 / 236	-18.5	-18.5	0.40 (1)	10.00		
G- F	0 / 236	-18.5	-18.5	0.40 (1)	10.00		
F- I	0 / 236	-18.5	-18.5	0.40 (1)	10.00		
I- D	0 / 236	-18.5	-18.5	0.40 (1)	10.00		

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

(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=0.46/1.00 (C-H:1), BC=0.40/1.00 (F-G:1),
WB=0.05/1.00 (C-F:1), SSI=0.68/1.00 (D-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.

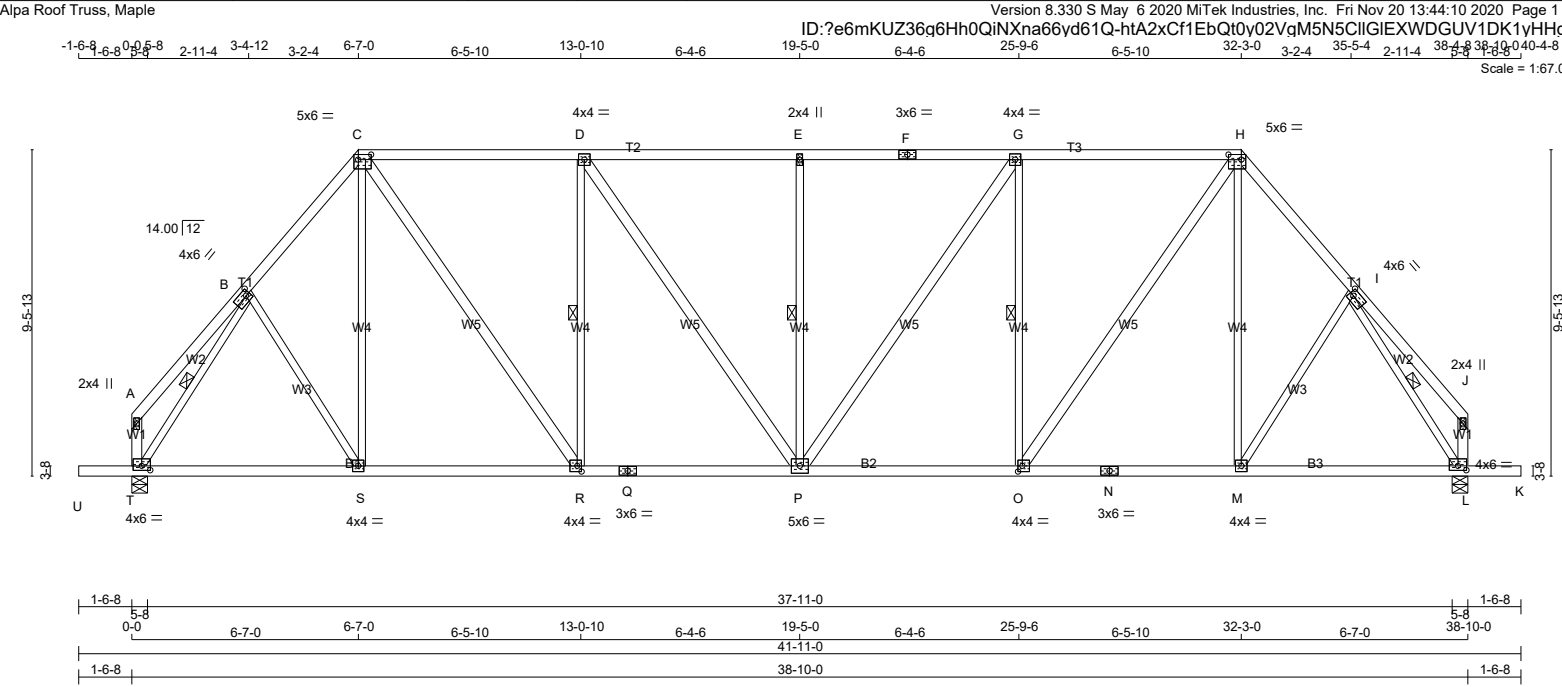
JSI GRIP= 0.43 (B) (INPUT = 0.90)
JSI METAL= 0.12 (B) (INPUT = 1.00)

Scale = 1:66.7

CONTINUED ON PAGE 2



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324082	H13		1	TRUSS DESC. JT 45147	E20115173



LUMBER										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA									
N. L. G. A. RULES										BEARINGS										SPECIFIED LOADS:									
CHORDS SIZE LUMBER DESCR.										FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQD										TOP CH. LL = 21.0 PSF									
A - C 2x4 DRY No.2 SPF										JT VERT HORZ DOWN HORZ UPLIFT IN-SX BRG IN-SX										DL = 6.0 PSF									
C - F 2x4 DRY No.2 SPF										T 2022 0 2022 0 0 5-8 2-2										BOT CH. LL = 0.0 PSF									
F - H 2x4 DRY No.2 SPF										L 2022 0 2022 0 0 5-8 2-2										DL = 7.4 PSF									
H - J 2x4 DRY No.2 SPF																				TOTAL LOAD = 34.4 PSF									
T - A 2x4 DRY No.2 SPF																													
L - J 2x4 DRY No.2 SPF																													
U - Q 2x4 DRY No.2 SPF																													
Q - N 2x4 DRY No.2 SPF																													
N - K 2x4 DRY No.2 SPF																													
										UNFACTORED REACTIONS										SPACING = 24.0 IN./C									
										1ST LCASE MAX./MIN. COMPONENT REACTIONS																			
ALL WEBS 2x3 DRY No.2 SPF										JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL										LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM									
EXCEPT										T 1442 880 / 0 0 / 0 0 / 0 562 / 0 0 / 0																			
C - R 2x4 DRY No.2 SPF										L 1442 880 / 0 0 / 0 0 / 0 562 / 0 0 / 0																			
D - P 2x4 DRY No.2 SPF																													
P - G 2x4 DRY No.2 SPF																													
O - H 2x4 DRY No.2 SPF																													
DRY: SEASONED LUMBER.										BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) T, L										THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015									
										BRACING										THIS DESIGN COMPLIES WITH:									
										TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.08 FT.										- PART 9 OF BCBC 2018 , ABC 2019									
										MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.										- PART 9 OF OBC 2012 (2019 AMENDMENT)									
										ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.										- CSA 086-14									
										1 LATERAL BRACE(S) AT 1/2 LENGTH OF D-R, E-P, G-O, B-T, I-L.										- TPIC 2014									
										END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW										(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									
PLATES (table is in inches)										LOADING										ALLOWABLE DEFL.(LL)= L/360 (1.29")									
										TOTAL LOAD CASES: (4)										CALCULATED VERT. DEFL.(LL) = L/999 (0.10")									
																				ALLOWABLE DEFL.(TL)= L/360 (1.29")									
																				CALCULATED VERT. DEFL.(TL) = L/999 (0.20")									
																				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=0.63/1.00 (D-E:1) , BC=0.37/1.00 (P-R:1) ,									
																				WB=0.54/1.00 (B-T:1) , SSI=0.24/1.00 (C-D:1)									
																				DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10									
																				COMP=1.10 SHEAR=1.10 TENS= 1.10									
																				COMPANION LIVE LOAD FACTOR = 1.00									
																				TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .									
																				NAIL VALUES									
																				PLATE GRIP(DRY) SHEAR SECTION									
																				(PSI) (PLI) (PLI)									
																				MAX MIN MAX MIN MAX MIN									
																				MT20 650 371 1747 788 1987 1873									
																				PLATE PLACEMENT TOL. = 0.250 inches									
																				PLATE ROTATION TOL. = 5.0 Deg.									
																				JSI GRIP= 0.90 (I) (INPUT = 0.90)									
																				JSI METAL= 0.53 (Q) (INPUT = 1.00)									

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

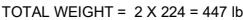
Y. WIDYA

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PROVINCE OF ONTARIO

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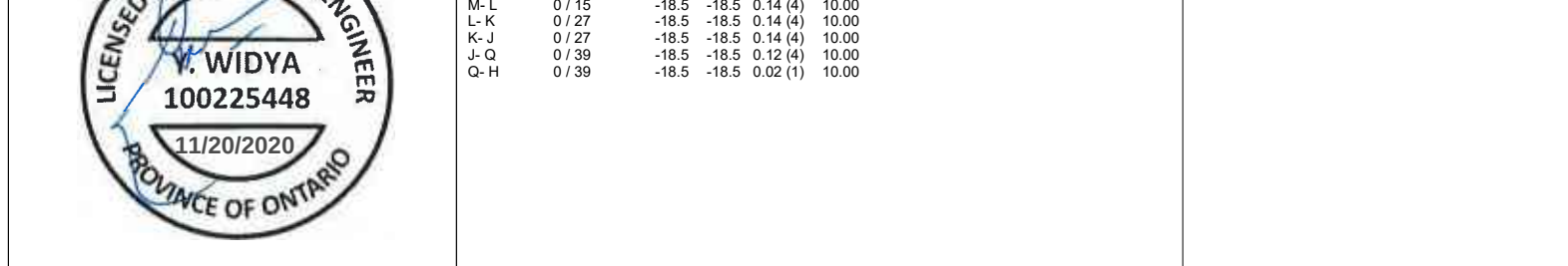
JT	TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	2.0	4.0		
B	TMWW-t	MT20	4.0	6.0	2.00	1.50
C	TTWW-I	MT20	4.0	9.0	1.75	7.50
D	TMWW-t	MT20	4.0	4.0		
E	TS-t	MT20	3.0	6.0		
F	TMW+rw	MT20	2.0	4.0		
G	TTWW-I	MT20	4.0	9.0	1.75	7.50
H	TMWW-t	MT20	4.0	6.0	2.00	1.50
I	TMV+p	MT20	2.0	4.0		
K	BMWV1-t	MT20	4.0	6.0	1.50	3.00
L	BMWW-t	MT20	4.0	4.0		
M	BS-t	MT20	3.0	6.0		
N	BMWWW-t	MT20	5.0	8.0		
O	BMWW-t	MT20	4.0	4.0	2.00	1.75
P	BS-t	MT20	3.0	6.0		
Q	BMWW-t	MT20	4.0	4.0		
R	BMWV1-t	MT20	4.0	6.0	1.50	3.00

TOTAL LOAD CASES: (4)

T-C	0/1170	-18.3	-18.3	0.42 (4)	10.00
O-N	0/1713	-18.5	-18.5	0.37 (1)	10.00
N-M	0/1170	-18.5	-18.5	0.42 (4)	10.00
M-L	0/1170	-18.5	-18.5	0.42 (4)	10.00
L-K	0/1167	-18.5	-18.5	0.41 (4)	10.00
K-J	0/0	-96.5	-96.5	0.16 (1)	10.00

JSI GRIP= 0.87 (H) (INPUT = 0.90)
JSI METAL= 0.55 (G) (INPUT = 1.00)





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TOTAL WEIGHT = 66 lb

DRY: SEASONED LUMBER.

JT	TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	2.0	4.0		
B	TMWW-t	MT20	3.0	4.0	1.50	1.75
C	TTW+p	MT20	3.0	5.0	2.75	1.50
D	TMWW-t	MT20	3.0	4.0	1.50	1.75
E	TMV+p	MT20	2.0	4.0		
G	BMVW1-t	MT20	3.0	4.0		
H	BMWWWW-t	MT20	4.0	6.0		
I	BMVW1-t	MT20	3.0	4.0		

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
I	703	0	703	0	0	5-8	1-8
G	703	0	703	0	0	5-8	1-8

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	502	306 / 0	0 / 0	0 / 0	0 / 0	195 / 0	0 / 0
G	502	306 / 0	0 / 0	0 / 0	0 / 0	195 / 0	0 / 0

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.

TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 22	-78.0	-78.0	0.13 (1)	10.00	H-C	0 / 384
B-C	-407 / 0	-78.0	-78.0	0.10 (1)	6.25	H-D	-145 / 0
C-D	-407 / 0	-78.0	-78.0	0.10 (1)	6.25	B-H	-145 / 0
D-E	0 / 22	-78.0	-78.0	0.13 (1)	10.00	I-B	-590 / 0
I-A	-95 / 0	0.0	0.0	0.01 (1)	7.81	D-G	-590 / 0
G-E	-95 / 0	0.0	0.0	0.01 (1)	7.81		
J-I	0 / 0	-96.5	-96.5	0.04 (1)	10.00		
I-H	0 / 335	-18.5	-18.5	0.25 (4)	10.00		
H-G	0 / 335	-18.5	-18.5	0.25 (4)	10.00		
G-F	0 / 0	-96.5	-96.5	0.04 (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

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

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

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=0.13/1.00 (D-E:1) , BC=0.25/1.00 (H-I:4) ,
WB=0.31/1.00 (D-G:1) , SSI=0.10/1.00 (G-H:4)

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.

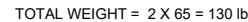
JSI GRIP= 0.89 (B) (INPUT = 0.90)
JSI METAL= 0.21 (B) (INPUT = 1.00)

Alpa Roof Truss, Maple

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Scale = 1:50.4



[M][F]

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMKW-t	MT20	4.0	9.0	2.00	3.50
C	TMWW-t	MT20	3.0	5.0	1.50	1.75
D	TTW+p	MT20	3.0	5.0	2.75	1.50
E	TMWW-t	MT20	3.0	5.0	1.50	1.75
F	TMKW-t	MT20	4.0	9.0	2.00	3.50
H	BKM1+i	MT20	3.0	4.0	0.50	3.00
I	BBWW-i	MT20	5.0	6.0	3.00	3.00
J	BMWWWW-t	MT20	4.0	6.0		
K	BBWW-i	MT20	5.0	6.0	3.00	3.00
L	BKM1+i	MT20	3.0	4.0	0.50	3.00

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	496	311 / 0	0 / 0	0 / 0	0 / 0	185 / 0	0 / 0
H	496	311 / 0	0 / 0	0 / 0	0 / 0	185 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.71 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIE

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)	LC1 MAX CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM TO		LENGTH	FR-TO			
A-B	0 / 27	-78.0	-78.0	0.05 (1)	10.00	J-D	0 / 432	
B-C	-1192 / 0	-78.0	-78.0	0.14 (1)	5.71	J-E	-498 / 0	
C-D	-495 / 0	-78.0	-78.0	0.19 (1)	6.25	I-E	0 / 413	
D-E	-495 / 0	-78.0	-78.0	0.19 (1)	6.25	I-F	0 / 879	
E-F	-1192 / 0	-78.0	-78.0	0.14 (1)	5.71	C-J	-498 / 0	
F-G	0 / 27	-78.0	-78.0	0.05 (1)	10.00	K-C	0 / 413	
L-B	-679 / 0	0.0	0.0	0.05 (1)	7.81	B-K	0 / 879	
H-F	-679 / 0	0.0	0.0	0.05 (1)	7.81			
L-K	0 / 0	-18.5	-18.5	0.02 (4)	10.00			
K-J	0 / 776	-18.5	-18.5	0.18 (1)	10.00			
J-I	0 / 776	-18.5	-18.5	0.18 (1)	10.00			
I-H	0 / 0	-18.5	-18.5	0.02 (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 BCBC 2018 , ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

ALLOWABLE DEFL.(LL)= L/360 (0.43")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.19/1.00 (C-D:1), BC=0.18/1.00 (J-K:1),
WB=0.20/1.00 (B-K:1), SSI=0.10/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

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

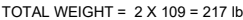
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.53 (K) (INPUT = 0.90)
JSI METAL= 0.34 (I) (INPUT = 1.00)

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



Scale = 1:45.9

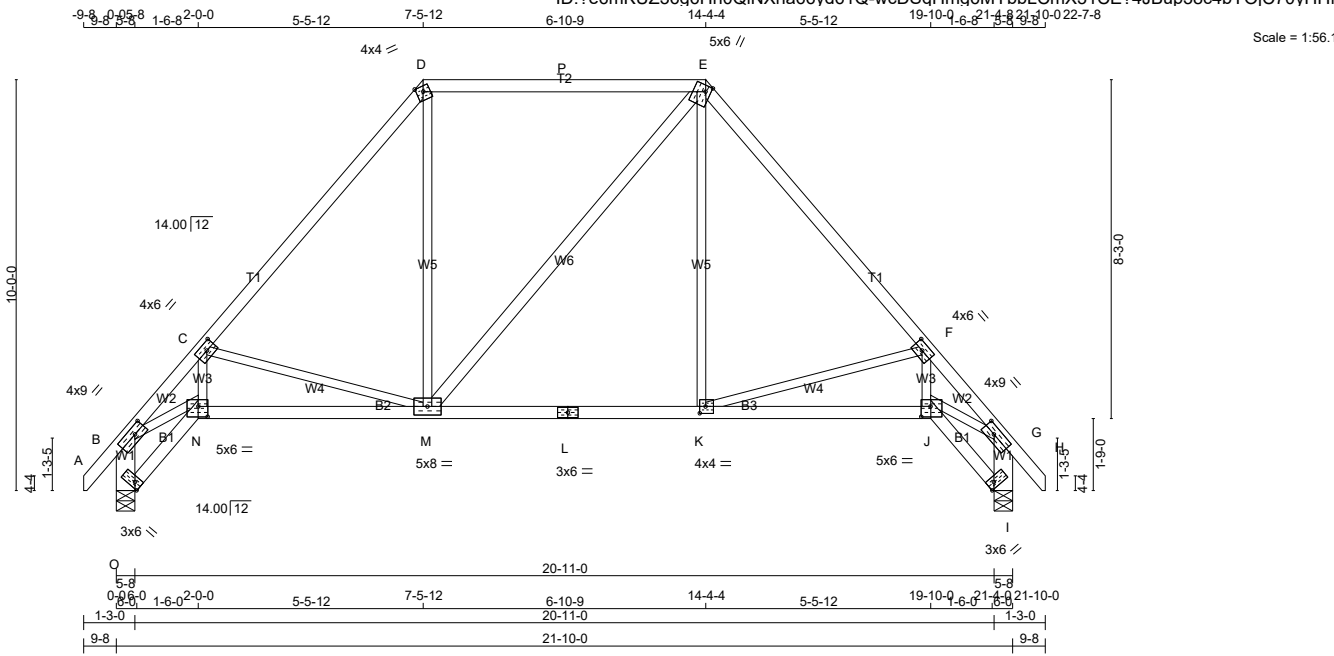
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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324082	H19T		1	TRUSS DESC. JT 45147	E20115179

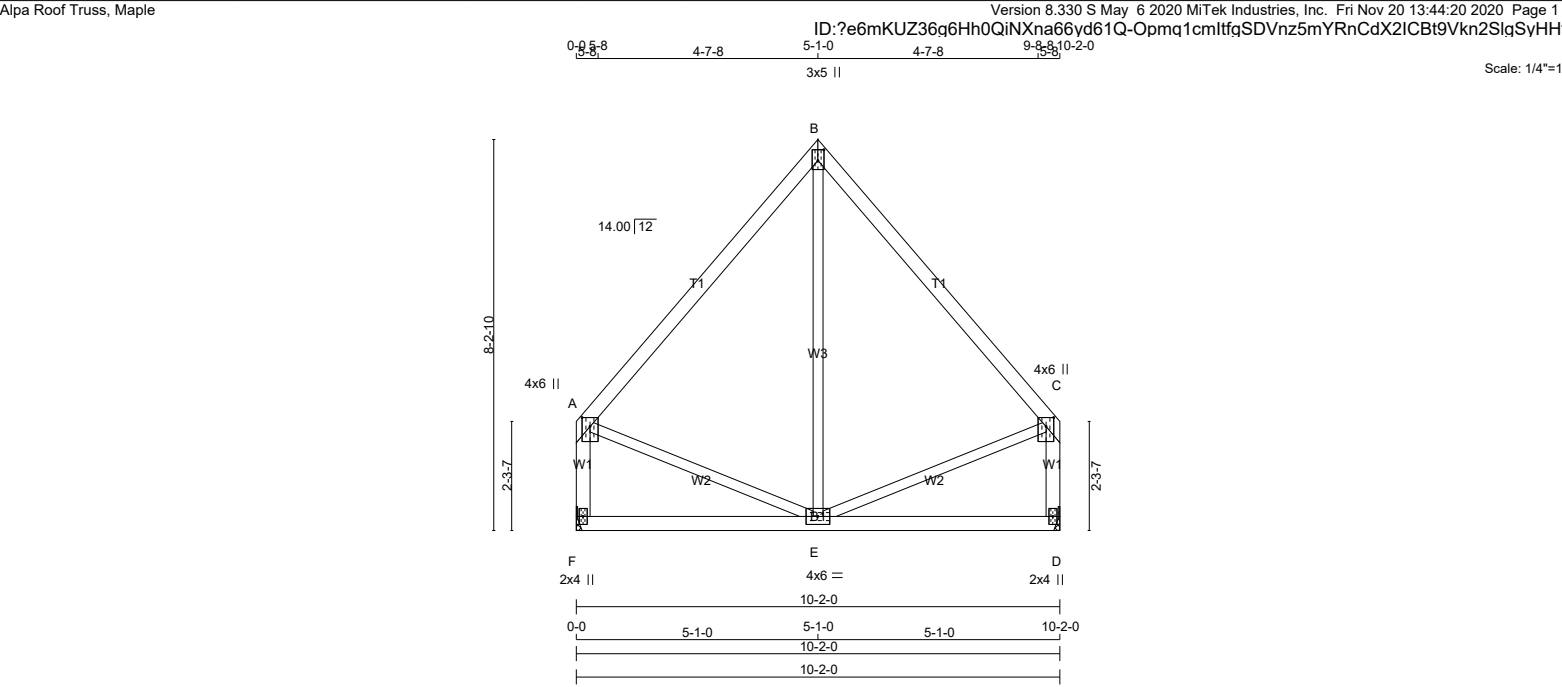
Alpa Roof Truss, Maple

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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324082	H20		1	TRUSS DESC. JT 45147	E20115180



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

ALL WEBS	2x3	DRY	No.2
EXCEPT			

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	6.0	2.25	2.00
B	TTW+p	MT20	3.0	5.0	2.75	1.50
C	TMVW+p	MT20	4.0	6.0	2.25	2.00
D	BMV1+p	MT20	2.0	4.0		
E	BMWW+t	MT20	4.0	6.0		
F	BMV1+p	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	MAXIMUM	FACTORED	INPUT	REQRD
		GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
F	490	0	490	0	0	MECHANICAL
D	490	0	490	0	0	MECHANICAL

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	350	213 / 0	0 / 0	0 / 0	0 / 0	136 / 0	0 / 0
D	350	213 / 0	0 / 0	0 / 0	0 / 0	136 / 0	0 / 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 CSI (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	-255 / 0	-78.0	-78.0 0.26 (1)	6.25	E-B	-9 / 78	0.03 (4)
B-C	-255 / 0	-78.0	-78.0 0.26 (1)	6.25	A-E	0 / 177	0.04 (1)
F-A	-455 / 0	0.0	0.0 0.06 (1)	7.81	E-C	0 / 177	0.04 (1)
D-C	-455 / 0	0.0	0.0 0.06 (1)	7.81			
F-E	0 / 0	-18.5	-18.5 0.14 (4)	10.00			
E-D	0 / 0	-18.5	-18.5 0.14 (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 BCBC 2018 , ABC 2019
 - PART 9 OF OBC 2012 (2019 AMENDMENT)
 - CSA 086-14
 - TPIC 2014

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

ALLOWABLE DEFL.(LL)= L/360 (0.34")
 CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
 ALLOWABLE DEFL.(TL)= L/360 (0.34")
 CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.26/1.00 (A-B:1) , BC=0.14/1.00 (E-F:4) ,
 WB=0.04/1.00 (A-E:1) , SSI=0.10/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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
MT20	650	371	1747	1987

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.26 (C) (INPUT = 0.90)
 JSI METAL= 0.14 (A) (INPUT = 1.00)

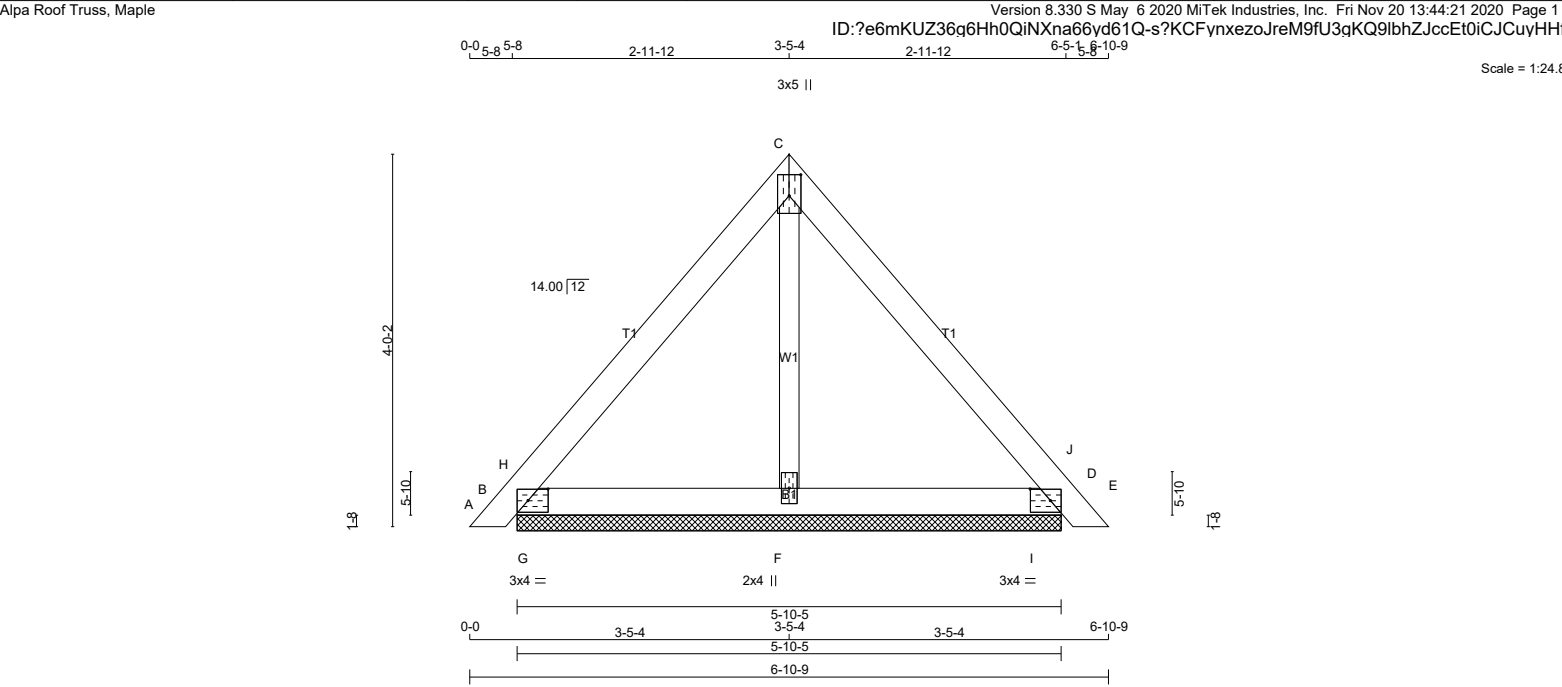
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TOTAL WEIGHT = 49 lb

JSI GRIP= 0.56 (E) (INPUT = 0.90)
JSI METAL= 0.24 (A) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324082	H21P		1	TRUSS DESC. JT 45147	E20115182



TOTAL WEIGHT = 5 X 21 = 106 lb

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0	1.50	2.50
C	TTW+p	MT20	3.0	5.0	2.75	1.50
D	TMB1-I	MT20	3.0	4.0	1.50	2.50
F	BMW1+w	MT20	2.0	4.0		

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
B	234	0	234	0	0
D	234	0	234	0	0
F	160	0	160	0	0

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	165	112 / 0	0 / 0	0 / 0	0 / 0	52 / 0	0 / 0
D	165	112 / 0	0 / 0	0 / 0	0 / 0	52 / 0	0 / 0
F	117	55 / 0	0 / 0	0 / 0	0 / 0	62 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, D, 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		FACTORED				WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT.	LOAD (PLF)	LC1 MAX	CSi (LC)	MEMB.	FORCE (LBS)	MAX	CSi (LC)
FR-TO		FROM	TO			FR-TO			
A-B	0 / 11	-78.0	-78.0	0.01 (1)	10.00	F-C	-39 / 0	0.01 (1)	
B-H	-14 / 51	-78.0	-78.0	0.06 (1)	6.25	G-H	-298 / 0	0.00 (1)	
H-C	-109 / 0	-78.0	-78.0	0.08 (1)	6.25	I-J	-298 / 0	0.00 (1)	
C-J	-109 / 0	-78.0	-78.0	0.08 (1)	6.25				
J-D	-14 / 51	-78.0	-78.0	0.06 (1)	6.25				
D-E	0 / 11	-78.0	-78.0	0.01 (1)	10.00				
B-G	0 / 64	-18.5	-18.5	0.08 (1)	10.00				
G-F	0 / 64	-18.5	-18.5	0.08 (1)	10.00				
F-I	0 / 64	-18.5	-18.5	0.08 (1)	10.00				
I-D	0 / 64	-18.5	-18.5	0.08 (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

(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=0.08/1.00 (C-J:1) , BC=0.08/1.00 (D-I:1) , WB=0.01/1.00 (C-F:1) , SSI=0.23/1.00 (D-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)	
MT20	650	371	1747	788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.28 (B) (INPUT = 0.90)
JSI METAL= 0.06 (D) (INPUT = 1.00)

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



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TOTAL WEIGHT = 21 lb

GABLE STUDS SPACED AT 2-0-0 OC.

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



C H O R D S					W E B S				
MAX. FACTORED		FACTORED			MAX. FACTORED				
MEMB.	FORCE	VERT. LOAD	LC1	MAX	MAX.	MEMB.	FORCE	MAX	
	(LBS)	(PLF)	CSI (LC)	UNBRAC			(LBS)	CSI (LC)	
FR-TO		FROM	TO	LENGTH	FR-TO				
A-B	0 / 94	-96.5	-96.5	0.09 (1)	10.00	F-C	-75 / 0	0.02 (1)	
B-H	-100 / 0	-78.0	-78.0	0.08 (1)	6.25	G-H	-94 / 31	0.00 (1)	
H-C	-81 / 0	-78.0	-78.0	0.07 (1)	6.25	I-J	-94 / 31	0.00 (1)	
C-J	-81 / 0	-78.0	-78.0	0.07 (1)	6.25				
J-D	-100 / 0	-78.0	-78.0	0.08 (1)	6.25				
D-E	0 / 94	-96.5	-96.5	0.09 (1)	10.00				
B-G	0 / 43	-18.5	-18.5	0.03 (1)	10.00				
G-F	0 / 43	-18.5	-18.5	0.05 (1)	10.00				
F-I	0 / 43	-18.5	-18.5	0.05 (1)	10.00				
I-D	0 / 43	-18.5	-18.5	0.03 (1)	10.00				

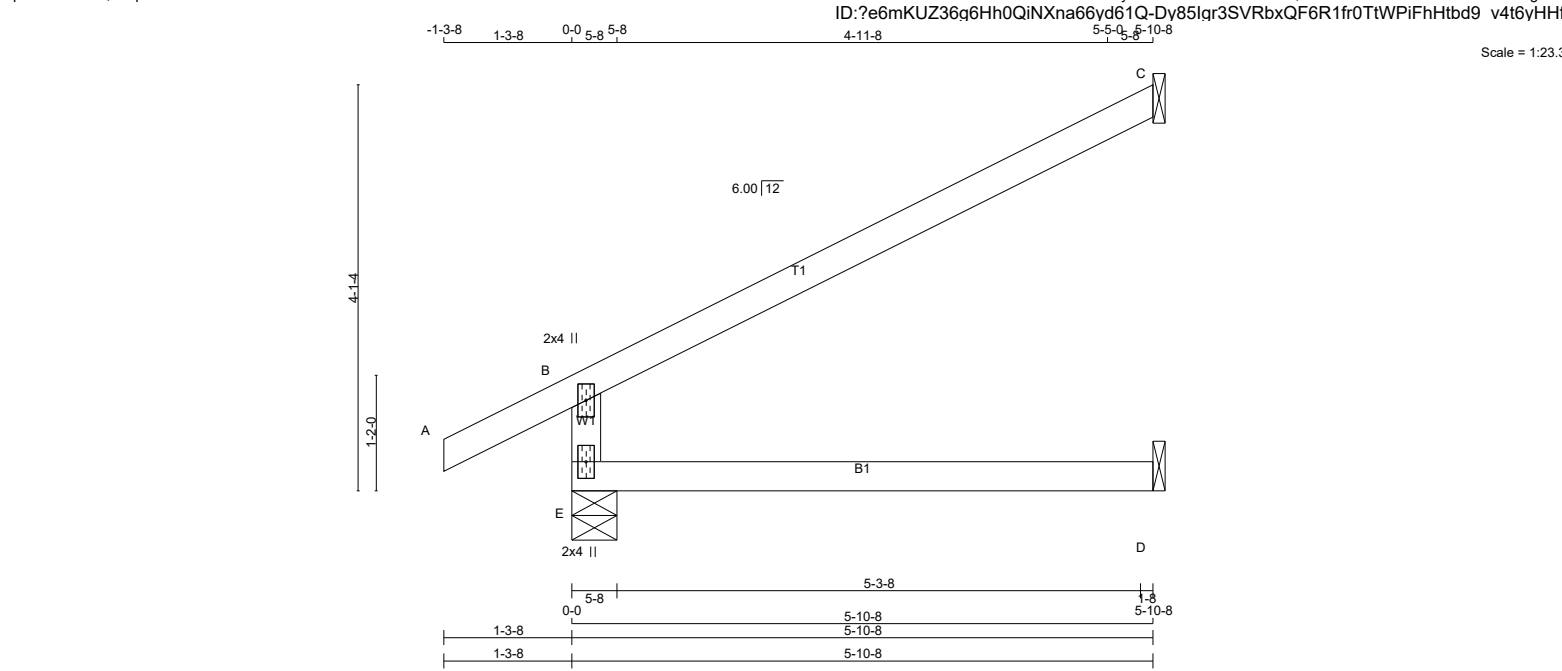
JSI GRIP= 0.04 (C) (INPUT = 0.90)
JSI METAL= 0.02 (D) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324082	J01		1	TRUSS DESC. JT 45147	E20115184

Alpa Roof Truss, Maple

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TOTAL WEIGHT = 9 X 17 = 151 lb

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

DRY: SEASONED LUMBER.

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
E	456	0	456	0	5-8	1-8
C	172	0	172	0	1-8	1-8
D	45	0	50	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND			
E	322	211 / 0	0 / 0	0 / 0	0 / 0	111 / 0	0 / 0	0 / 0
C	119	93 / 0	0 / 0	0 / 0	0 / 0	26 / 0	0 / 0	0 / 0
D	36	0 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS			
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (PLF)	MAX. UNBRACED LENGTH	MEMB. FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM	TO		FR-TO	
E-B	-392 / 0	0.0	0.0	0.13 (4)	7.81	
A-B	0 / 24	-78.0	-78.0	0.10 (1)	10.00	
B-C	-26 / 0	-78.0	-78.0	0.46 (1)	6.25	
E-D	0 / 0	-18.5	-18.5	0.13 (4)	10.00	

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.46/1.00 (B-C:1) , BC=0.13/1.00 (D-E:4) ,
WB=0.00/1.00 (n/a:0) , SSI=0.20/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

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

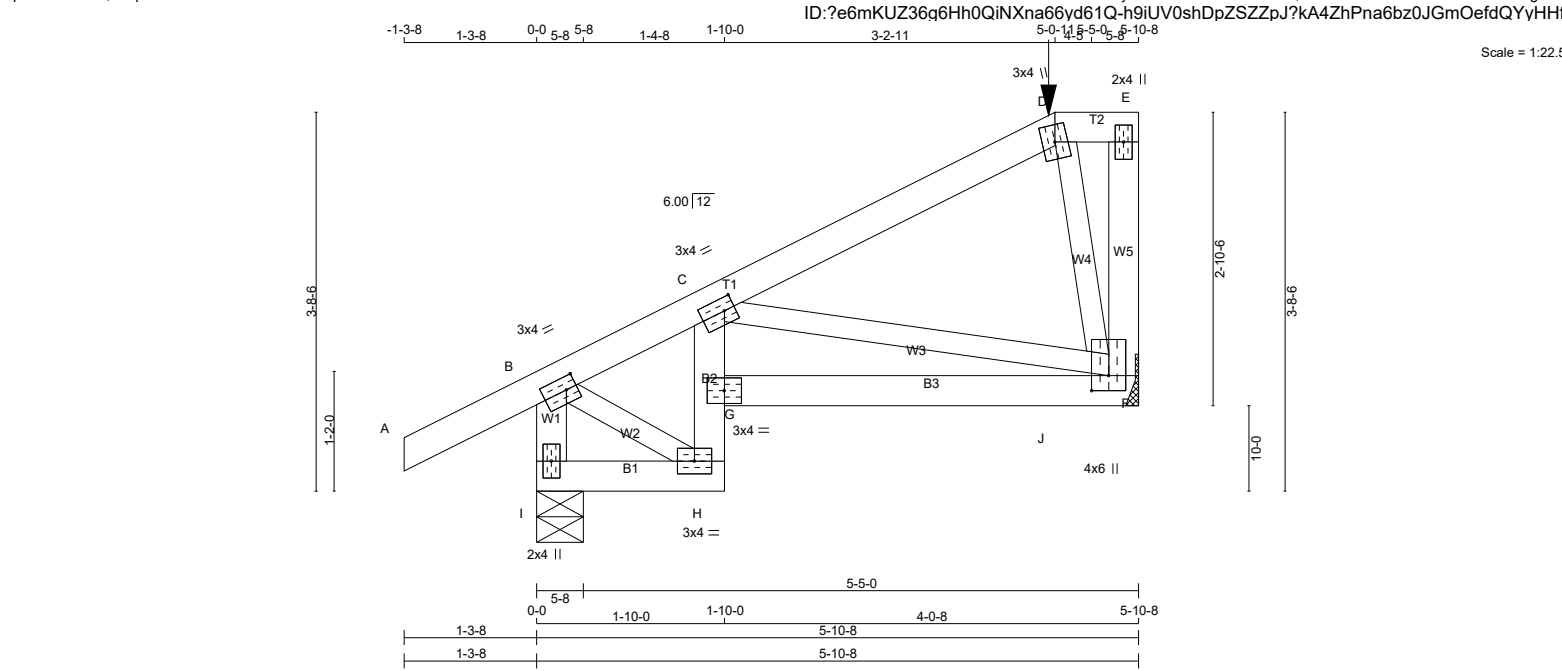


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324082	J01A		1	TRUSS DESC. JT 45147	E20115185

Alpa Roof Truss, Maple

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TOTAL WEIGHT = 27 lb

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

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW-t	MT20	3.0	4.0 1.50 1.25
C	TMVW-t	MT20	3.0	4.0 1.50 1.25
D	TTW+m	MT20	3.0	4.0
E	TMV+p	MT20	2.0	4.0
F	BMVWW1+p	MT20	4.0	6.0 1.75 2.00
G	BVM-I	MT20	3.0	4.0
H	BMVW-t	MT20	3.0	4.0
I	BMV1+p	MT20	2.0	4.0

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
F	445	0	445	0	0	MECHANICAL			
I	447	0	447	0	0	5-8	1-8		

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

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	316	198 / 0	0 / 0	0 / 0	0 / 0	119 / 0	0 / 0
I	318	199 / 0	0 / 0	0 / 0	0 / 0	119 / 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 = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1	MEMB.	MAX. FORCE (LBS)	FACTORED UNBRAC LENGTH	MAX LC
FR-TO		FROM	TO	FR-TO			
A-B	0 / 24	-78.0	-78.0 0.11 (1)	10.00	C-F	-338 / 0	0.10 (1)
B-C	-268 / 0	-78.0	-78.0 0.09 (1)	6.25	D-F	-336 / 0	0.06 (1)
C-D	-139 / 0	-78.0	-78.0 0.10 (1)	6.25	B-H	0 / 259	0.06 (1)
D-E	-26 / 0	-111.3	-111.3 0.10 (1)	6.25			
F-E	-5 / 11	0.0	0.0 0.08 (4)	10.00			
I-B	-457 / 0	0.0	0.0 0.02 (1)	7.81			
I-H	-16 / 9	-26.4	-26.4 0.08 (1)	6.25			
H-G	-63 / 0	0.0	0.0 0.19 (1)	7.81			
G-C	-19 / 56	0.0	0.0 0.19 (1)	7.81			
G-J	0 / 458	-26.4	-26.4 0.15 (1)	10.00			
J-F	0 / 458	-26.4	-26.4 0.15 (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

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

GIRDER TYPE: CPrimeHip
LEFT SETBACK = 5-0-11
RIGHT SETBACK = 0-0
END SETBACK = 3-8-8
END WALL WIDTH = 0-0
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

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

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

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

CSI: TC=0.11/1.00 (A-B:1) , BC=0.19/1.00 (G-H:1) , WB=0.10/1.00 (C-F:1) , SSI=0.21/1.00 (C-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

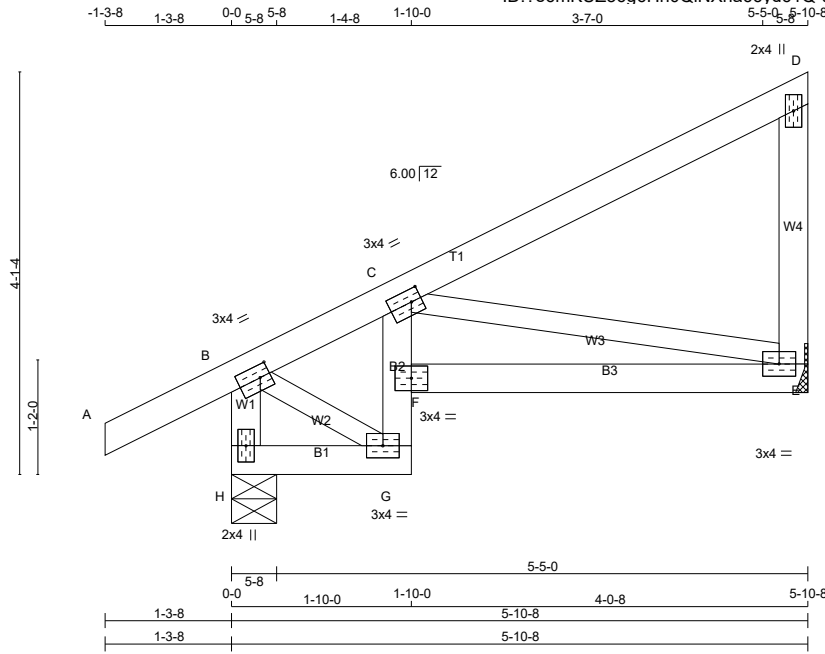
L CONN. C1



Alpa Roof Truss, Maple

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scale = 1:23.5



TOTAL WEIGHT = 9 X 26 = 232 lb



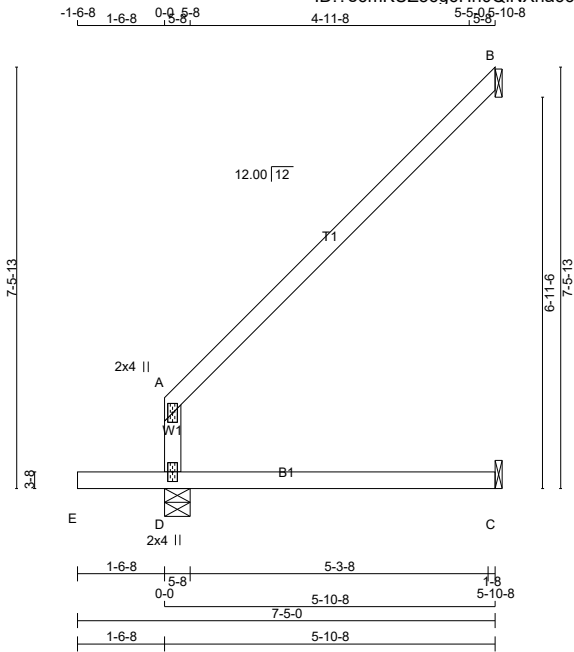
JSI GRIP= 0.64 (E) (INPUT = 0.90)
JSI METAL= 0.14 (E) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324082	J02		1	TRUSS DESC. JT 45147	E20115187

Alpa Roof Truss, Maple

ID: ?e6mKUZ36g6Hh0QiNXna66yd61Q-dXpEwhtyIQpAotzh79CYe6V4twHUUEL3sy8kURyHHfm

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TOTAL WEIGHT = 4 X 20 = 79 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	485	0	485	0	0	5-8	1-8
B	190	0	190	0	0	1-8	1-8
C	41	0	46	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	346	209 / 0	0 / 0	0 / 0	0 / 0	137 / 0
B	131	102 / 0	0 / 0	0 / 0	0 / 0	29 / 0
C	33	0 / 0	0 / 0	0 / 0	0 / 0	33 / 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: (4)

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 LC1 (LC)
FR-TO		FROM	TO		FR-TO		
D-A	-268 / 0	0.0	0.0 0.32 (1)	7.81			
A-B	-28 / 0	-78.0	-78.0 0.32 (1)	6.25			
E-D	0 / 0	-96.5	-96.5 0.16 (1)	10.00			
D-C	0 / 0	-18.5	-18.5 0.19 (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 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 (0.20")
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.02")

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 (A-B:1) , BC=0.19/1.00 (C-D:4) ,
WB=0.00/1.00 (n/a:0) , SSI=0.15/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.20 (A) (INPUT = 0.90)
JSI METAL= 0.14 (A) (INPUT = 1.00)

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

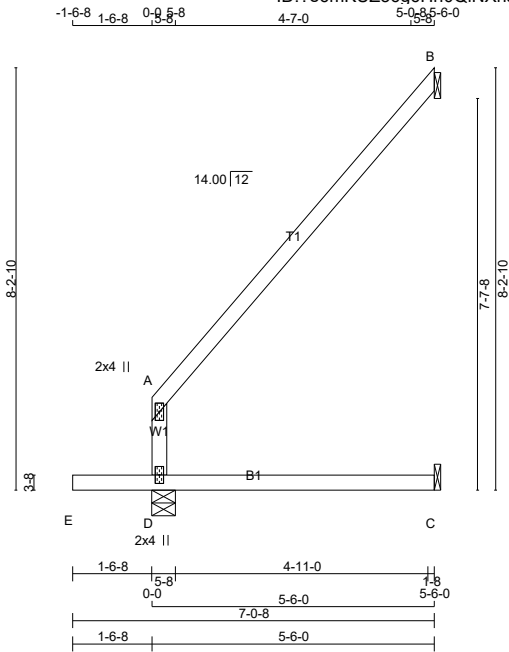


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324082	J03		1	TRUSS DESC. JT 45147	E20115188

Alpa Roof Truss, Maple

ID: ?e6mKUZ36g6Hh0QiNXna66yd61Q-dXpEwhtylQpAotzh79CYe6V4QwHsUEL3sy8kURyHHfm

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Scale = 1:44.9

TOTAL WEIGHT = 20 lb

LUMBER

N. L. G. A. RULES

CHORDS SIZE

D - A 2x4 DRY

A - B 2x4 DRY

E - C 2x4 DRY

LUMBER

No.2

No.2

No.2

DESCR.

SPF

SPF

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 GROSS REACTION

MAXIMUM FACTORED GROSS REACTION

INPUT BRG

REQRD BRG

JT

VERT

HORZ

DOWN

HORZ

UPLIFT

IN-SX

IN-SX

D

462

0

462

0

0

5-8

1-8

B

179

0

179

0

0

1-8

1-8

C

38

0

43

0

0

1-8

1-8

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

UNFACTORED REACTIONS

1ST LCASE

MAX./MIN. COMPONENT REACTIONS

JT

COMBINED

SNOW

LIVE

PERM.LIVE

WIND

DEAD

SOIL

D

330

199 / 0

0 / 0

0 / 0

0 / 0

131 / 0

0 / 0

B

124

96 / 0

0 / 0

0 / 0

0 / 0

28 / 0

0 / 0

C

31

0 / 0

0 / 0

0 / 0

0 / 0

31 / 0

0 / 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: (4)

CHORDS

MAX. FACTORED FORCE (LBS)

FACTORED VERT. LOAD (PLF)

MAX LC1 (LC)

MAX. UNBRACED LENGTH

WEBS

MEMB.

MAX. FACTORED FORCE (LBS)

MAX LC1 (LC)

FR-TO

FROM

TO

FR-TO

D-A

-250 / 0

0.0

0.0

0.27 (1)

7.81

A-B

-27 / 0

-78.0

-78.0

0.28 (1)

6.25

E-D

0 / 0

-96.5

-96.5

0.16 (1)

10.00

D-C

0 / 0

-18.5

-18.5

0.16 (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 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 (0.02")

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=0.28/1.00 (A-B:1) , BC=0.16/1.00 (C-D:4) , WB=0.00/1.00 (n/a:0) , SSI=0.13/1.00 (A-B:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

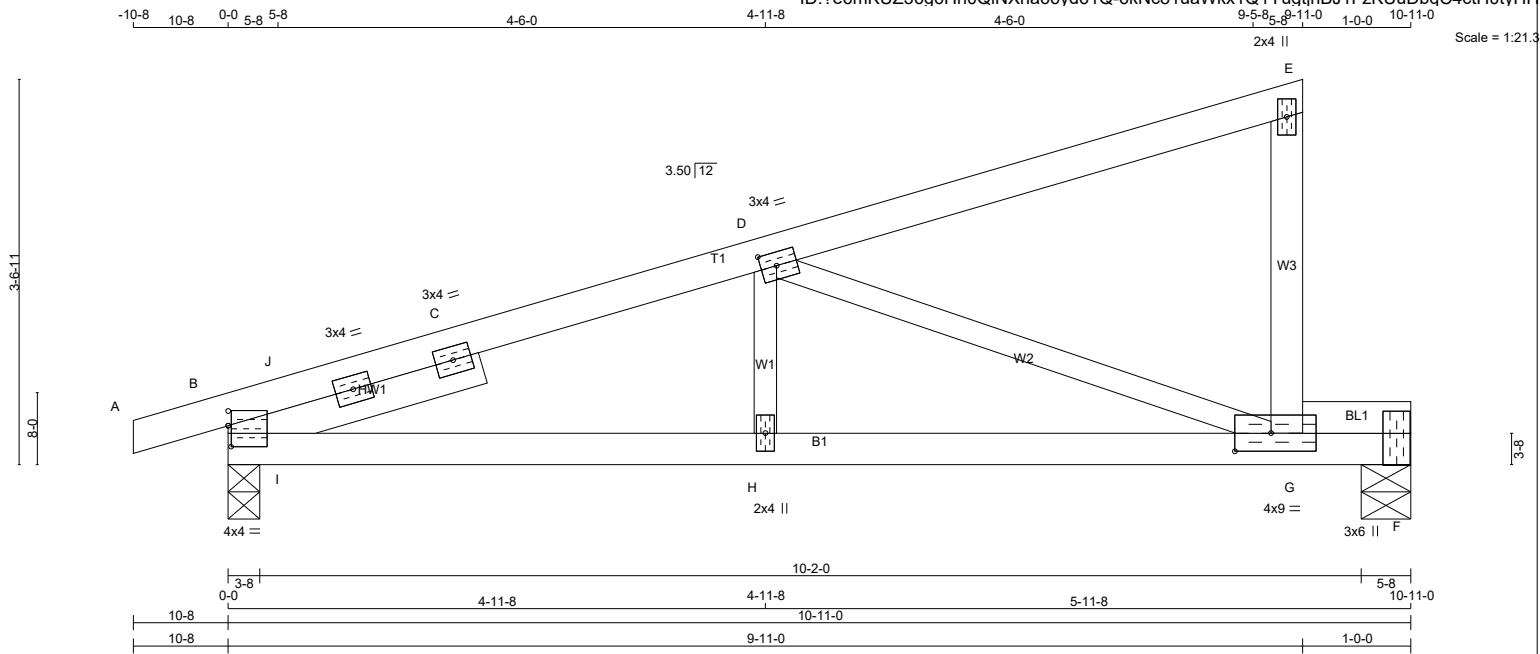
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE

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



Alpa Roof Truss, Maple

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TOTAL WEIGHT = 7 X 38 = 265 lb

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

PLATES (table is in inches)

JT	PLATES	W	LEN	Y	X
B	TMBMR1-I	MT20	4.0	4.0	2.25 0.25
B	RT-I	MT20	3.0	4.0	
B	RT-t	MT20	3.0	4.0	
B	TP+p	MT20	3.0	6.0	1.50
D	TMVW-t	MT20	3.0	4.0	1.50 1.75
E	TMV+p	MT20	2.0	4.0	
G	BMVVK-t	MT20	4.0	9.0	2.00 4.00
H	BMW+w	MT20	2.0	4.0	

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

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	422	266 / 0	0 / 0	0 / 0	0 / 0	157 / 0	0 / 0
F	324	189 / 0	0 / 0	0 / 0	0 / 0	135 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MAX. FACTORED		FACTORED			MAX. FACTORED				
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX CSI (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	TO		LENGTH	FR-TO			
A-B	-4 / 0	-78.0	-78.0	0.03 (1)	10.00	H-D	0 / 243	0.06 (4)	
B-J	-684 / 0	-78.0	-78.0	0.01 (4)	6.25	D-G	-994 / 0	0.43 (1)	
J-C	-735 / 0	-78.0	-78.0	0.15 (1)	6.25	I-J	0 / 250	0.00 (1)	
C-D	-735 / 0	-78.0	-78.0	0.15 (1)	6.25	I-C	-509 / 0	0.06 (1)	
D-E	-8 / 0	-78.0	-78.0	0.23 (1)	10.00				
G-E	-165 / 0	0.0	0.0	0.03 (1)	7.81				
B-I	0 / 507	-18.5	-18.5	0.11 (1)	10.00				
I-H	0 / 934	-18.5	-18.5	0.35 (1)	10.00				
H-G	0 / 934	-18.5	-18.5	0.75 (1)	10.00				
G-F	0 / 0	-18.5	-18.5	0.60 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.23/1.00 (D-E:1), BC=0.75/1.00 (G-H:1), WB=0.43/1.00 (D-G:1), SSI=0.35/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

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



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

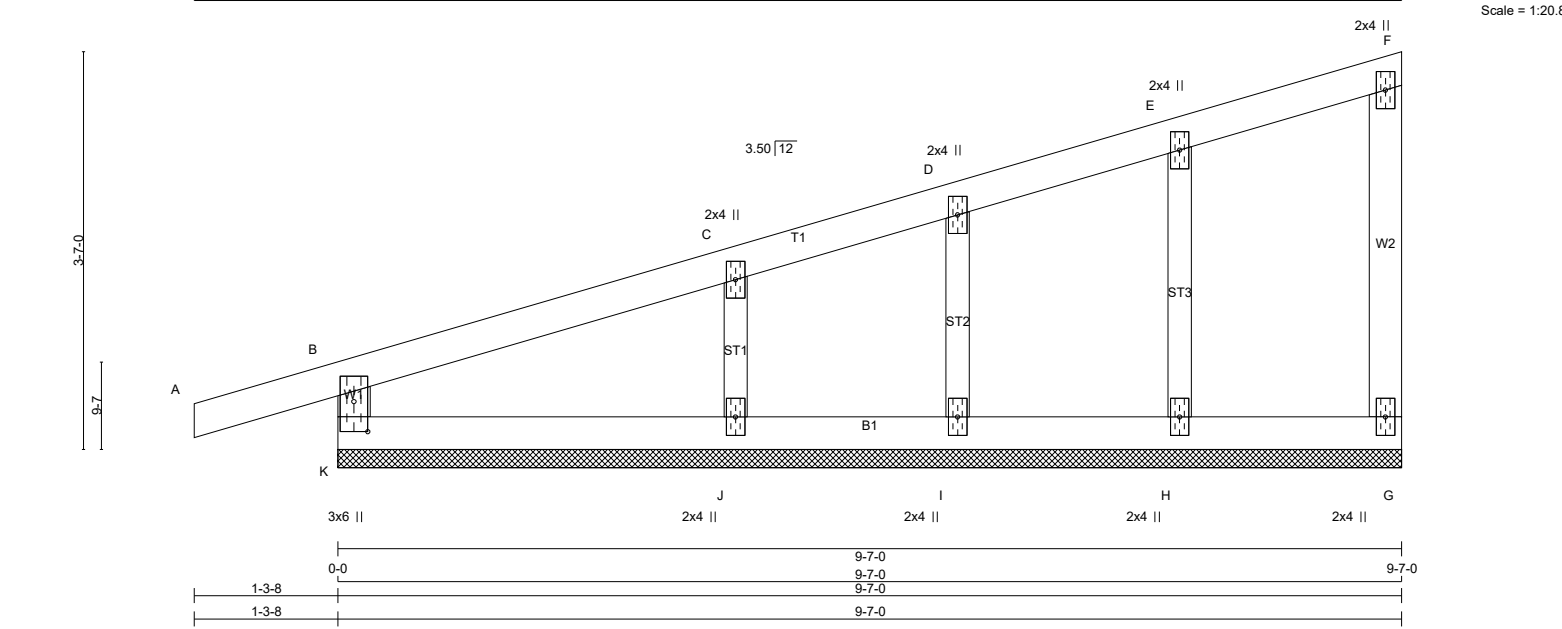
Alpa Roof Truss, Maple

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9-1-85-9-7-0

Scale = 1:20.8



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. K - B 2x4 DRY No.2 SPF A - F 2x4 DRY No.2 SPF G - F 2x4 DRY No.2 SPF K - G 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF ALL GABLE WEBS 2x3 DRY No.2 SPF DRY: SEASONED LUMBER. GABLE STUDS SPACED AT 2'-0" OC.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS. THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE. BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) <table><tr><th colspan="4">CHORDS</th><th colspan="4">WEBS</th></tr><tr><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>FACTORED VERT. LOAD (PLF)</th><th>LC1 MAX CSI (LC)</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>MAX UNBRAC LENGTH</th><th>MAX CSI (LC)</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>K-B</td><td>-257 / 0</td><td>0.0 0.0</td><td>0.04 (4)</td><td>7.81</td><td>H-E</td><td>-172 / 0</td><td>0.03 (1)</td></tr><tr><td>A-B</td><td>0 / 15</td><td>-78.0 -78.0</td><td>0.10 (1)</td><td>10.00</td><td>I-D</td><td>-128 / 0</td><td>0.02 (1)</td></tr><tr><td>B-C</td><td>-20 / 0</td><td>-78.0 -78.0</td><td>0.13 (1)</td><td>6.25</td><td>J-C</td><td>-225 / 0</td><td>0.03 (1)</td></tr><tr><td>C-D</td><td>-17 / 0</td><td>-78.0 -78.0</td><td>0.08 (1)</td><td>6.25</td><td></td><td></td><td></td></tr><tr><td>D-E</td><td>-7 / 0</td><td>-78.0 -78.0</td><td>0.04 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>E-F</td><td>-8 / 0</td><td>-78.0 -78.0</td><td>0.04 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>G-F</td><td>-69 / 0</td><td>0.0 0.0</td><td>0.02 (1)</td><td>7.81</td><td></td><td></td><td></td></tr><tr><td>K-J</td><td>0 / 17</td><td>-18.5 -18.5</td><td>0.04 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>J-I</td><td>0 / 11</td><td>-18.5 -18.5</td><td>0.04 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>I-H</td><td>0 / 8</td><td>-18.5 -18.5</td><td>0.02 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>H-G</td><td>0 / 6</td><td>-18.5 -18.5</td><td>0.02 (4)</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 UNBRAC LENGTH	MAX CSI (LC)	FR-TO		FROM TO		FR-TO				K-B	-257 / 0	0.0 0.0	0.04 (4)	7.81	H-E	-172 / 0	0.03 (1)	A-B	0 / 15	-78.0 -78.0	0.10 (1)	10.00	I-D	-128 / 0	0.02 (1)	B-C	-20 / 0	-78.0 -78.0	0.13 (1)	6.25	J-C	-225 / 0	0.03 (1)	C-D	-17 / 0	-78.0 -78.0	0.08 (1)	6.25				D-E	-7 / 0	-78.0 -78.0	0.04 (1)	10.00				E-F	-8 / 0	-78.0 -78.0	0.04 (1)	10.00				G-F	-69 / 0	0.0 0.0	0.02 (1)	7.81				K-J	0 / 17	-18.5 -18.5	0.04 (4)	10.00				J-I	0 / 11	-18.5 -18.5	0.04 (4)	10.00				I-H	0 / 8	-18.5 -18.5	0.02 (4)	10.00				H-G	0 / 6	-18.5 -18.5	0.02 (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, 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 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=0.13/1.00 (B-C:1) , BC=0.04/1.00 (J-K:4) , WB=0.03/1.00 (C-J:1) , SSI=0.11/1.00 (B-C:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 1.00 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873				
CHORDS				WEBS																																																																																																																										
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX UNBRAC LENGTH	MAX CSI (LC)																																																																																																																							
FR-TO		FROM TO		FR-TO																																																																																																																										
K-B	-257 / 0	0.0 0.0	0.04 (4)	7.81	H-E	-172 / 0	0.03 (1)																																																																																																																							
A-B	0 / 15	-78.0 -78.0	0.10 (1)	10.00	I-D	-128 / 0	0.02 (1)																																																																																																																							
B-C	-20 / 0	-78.0 -78.0	0.13 (1)	6.25	J-C	-225 / 0	0.03 (1)																																																																																																																							
C-D	-17 / 0	-78.0 -78.0	0.08 (1)	6.25																																																																																																																										
D-E	-7 / 0	-78.0 -78.0	0.04 (1)	10.00																																																																																																																										
E-F	-8 / 0	-78.0 -78.0	0.04 (1)	10.00																																																																																																																										
G-F	-69 / 0	0.0 0.0	0.02 (1)	7.81																																																																																																																										
K-J	0 / 17	-18.5 -18.5	0.04 (4)	10.00																																																																																																																										
J-I	0 / 11	-18.5 -18.5	0.04 (4)	10.00																																																																																																																										
I-H	0 / 8	-18.5 -18.5	0.02 (4)	10.00																																																																																																																										
H-G	0 / 6	-18.5 -18.5	0.02 (4)	10.00																																																																																																																										

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

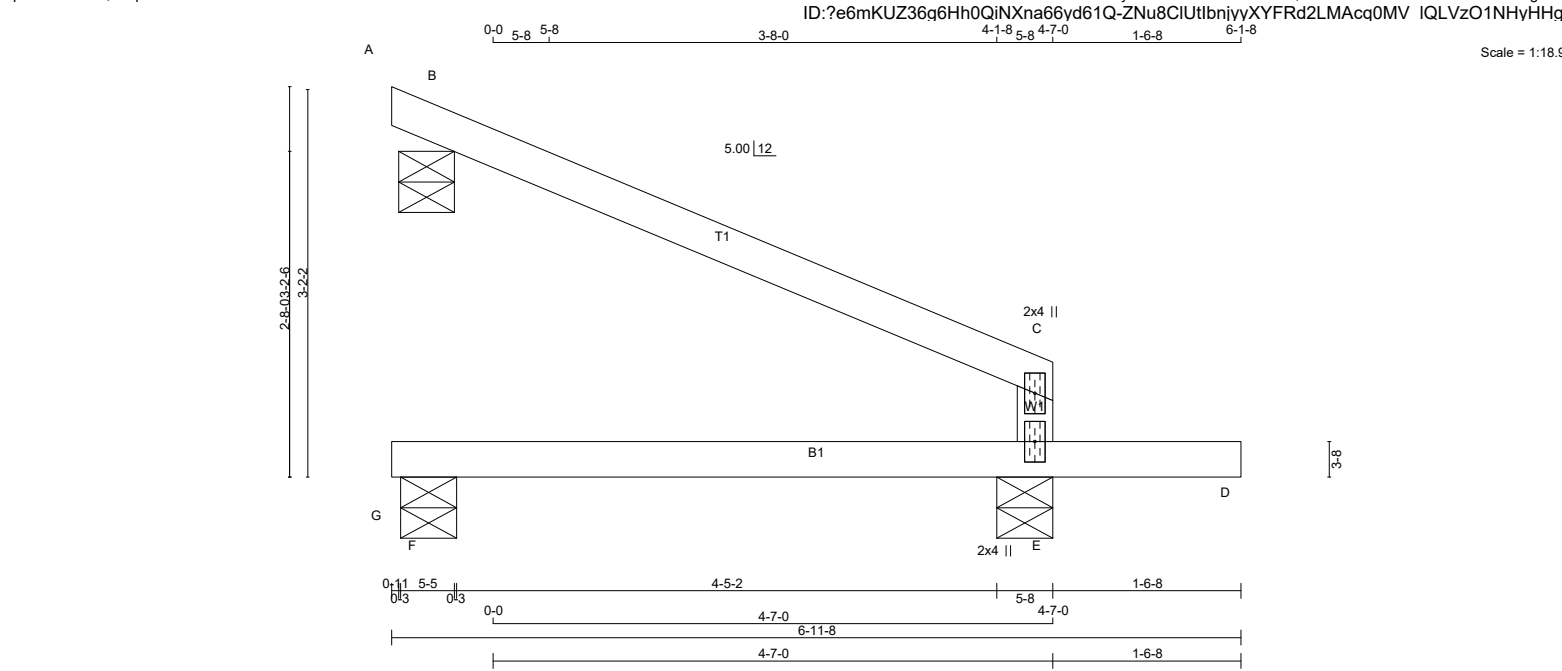


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324082	G01		1	TRUSS DESC. JT 45147	E20115191

Alpa Roof Truss, Maple

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ID: ?e6mKUZ36q6Hh0QINXna66yd61Q-ZNu8CIUtlbnjyyXYFRd2LMACq0MV IQLVzO1NHyHHgG



LUMBER

N. L. G. A. RULES

CHORDS SIZE LUMBER

A - C 2x4 DRY No.2

E - C 2x4 DRY No.2

G - D 2x4 DRY No.2

DESCR. SPF

SPF

SPF

DRY: SEASONED LUMBER.

TOTAL WEIGHT = 9 X 15 = 138 lb

LUMBER					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA				
N. L. G. A. RULES																			
CHORDS SIZE															SPECIFIED LOADS:				
A - C 2x4 DRY LUMBER No.2															TOP CH. LL = 21.0 PSF				
E - C 2x4 DRY No.2															DL = 6.0 PSF				
G - D 2x4 DRY No.2															BOT CH. LL = 0.0 PSF				
															DL = 7.4 PSF				
															TOTAL LOAD = 34.4 PSF				
DRY: SEASONED LUMBER.																			
BEARINGS																			
					FACTORED		MAXIMUM FACTORED		INPUT		REQRD								
					GROSS REACTION		GROSS REACTION		BRG		BRG								
					JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX							
					E	445	0	445	0	0	5-8	1-8							
					F	41	0	46	0	0	5-8	1-8							
					B	190	0	190	0	0	5-8	5-8							
BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): B																			
UNFACTORED REACTIONS																			
					1ST LCASE		MAX./MIN. COMPONENT REACTIONS												
					JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL							
					E	318	192 / 0	0 / 0	0 / 0	0 / 0	125 / 0	0 / 0							
					F	33	0 / 0	0 / 0	0 / 0	0 / 0	33 / 0	0 / 0							
					B	131	102 / 0	0 / 0	0 / 0	0 / 0	29 / 0	0 / 0							
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E, F, B																			
BRACING																			
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.																			
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.																			
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.																			
LOADING																			
TOTAL LOAD CASES: (4)																			

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

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

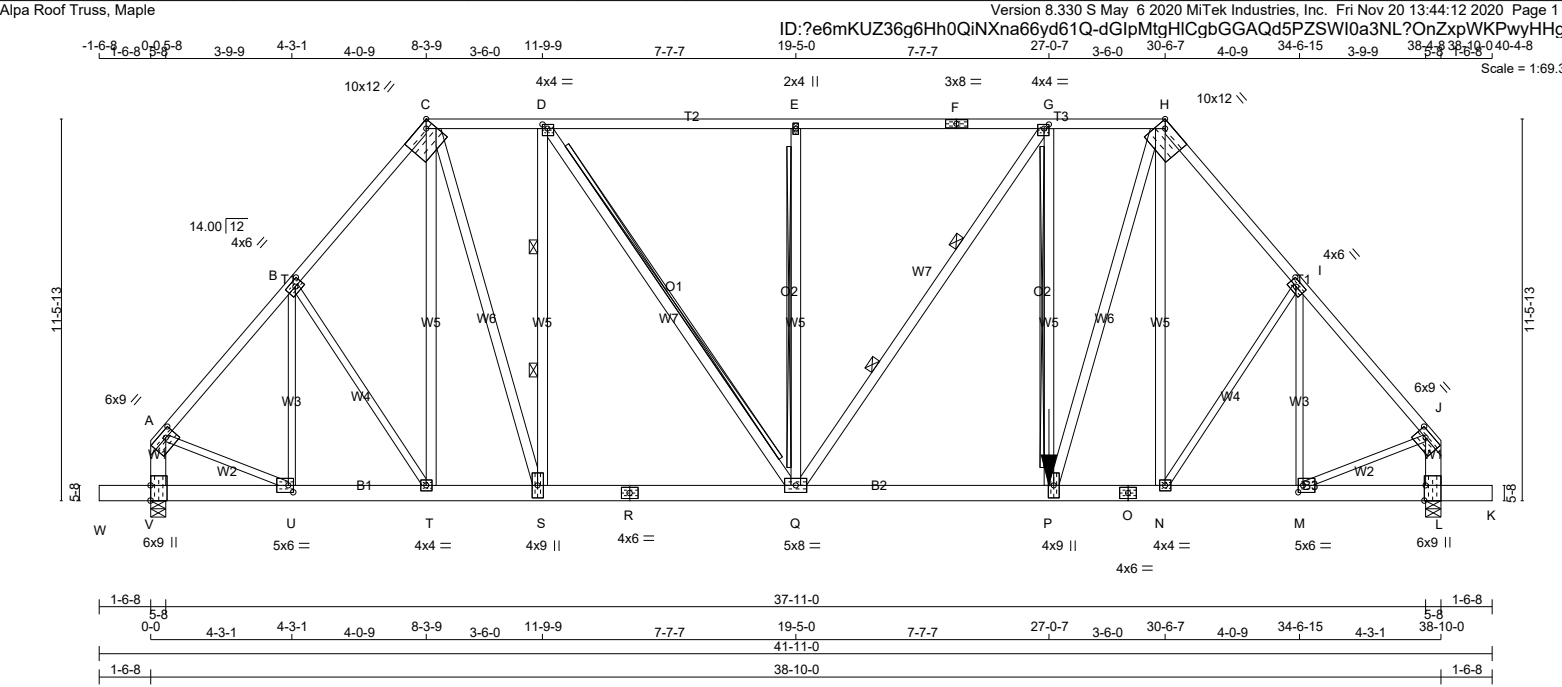
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.13 (C) (INPUT = 0.90)

JSI METAL= 0.08 (C) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324082	H14A		1	TRUSS DESC. JT 45147	E20115192



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - F	2x4	DRY	1650F 1.5E
F - H	2x4	DRY	1650F 1.5E
H - J	2x4	DRY	No.2
V - A	2x6	DRY	No.2
L - J	2x6	DRY	No.2
W - R	2x6	DRY	No.2
R - O	2x6	DRY	No.2
O - K	2x6	DRY	No.2
ALL WEBS EXCEPT	2x4	DRY	No.2
U - B	2x3	DRY	No.2
B - T	2x3	DRY	No.2
N - I	2x3	DRY	No.2
M - I	2x3	DRY	No.2
A - U	2x3	DRY	No.2
M - J	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
A	TMVW-t	MT20	6.0	9.0 2.25 3.50
B	TMWW-t	MT20	4.0	6.0 2.00 2.75
C	TTWW-h	MT20	10.0	12.0 Edge 2.75
D	TMWW-t	MT20	4.0	4.0 1.50 1.75
E	TMW+w	MT20	2.0	4.0
F	TS-t	MT20	3.0	8.0
G	TMWW-t	MT20	4.0	4.0 1.50 1.75
H	TTWW-h	MT20	10.0	12.0 Edge 2.75
I	TMWW-t	MT20	4.0	6.0 2.00 2.75
J	TMVW-t	MT20	6.0	9.0 2.25 3.50
L	BMV1-t	MT20	6.0	9.0 Edge 0.50
M	BMWW-t	MT20	5.0	6.0 2.50 1.75
N	BMWW-t	MT20	4.0	4.0
O	BS-t	MT20	4.0	6.0
P	BMWW+t	MT20	4.0	9.0
Q	BMWW+t	MT20	5.0	8.0
R	BS-t	MT20	4.0	6.0
S	BMWW+t	MT20	4.0	9.0
T	BMWW-t	MT20	4.0	4.0

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



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

FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
V	2871	0	2871	0	0	5-8	3-10
L	4215	0	4215	0	0	5-8	5-8

UNFACTORED REACTIONS		MAX./MIN. COMPONENT REACTIONS					
JT	1ST LCASE COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
V	2042	1273 / 0	0 / 0	0 / 0	0 / 0	769 / 0	0 / 0
L	2985	1936 / 0	0 / 0	0 / 0	0 / 0	1049 / 0	0 / 0

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

BRACING
FOR SECTION C-H, MAX. PURLIN SPACING = 2.00 FT.
FOR OTHER SECTIONS, TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.80 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.

2 LATERAL BRACE(S) AT 1/3 LENGTH OF D-S, G-Q.
2x4 DRY SPF No.2 T-BRACE AT D-Q, E-Q, G-P

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)

CHORDS				WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		LENGTH	FR-TO			
A- B	-2610 / 0	-78.0	-78.0	0.45 (1)	3.91	U- B	-493 / 0	0.36 (1)
B- C	-2725 / 0	-78.0	-78.0	0.45 (1)	3.82	B- T	0 / 52	0.01 (1)
C- D	-2311 / 0	-85.5	-85.5	0.41 (1)	2.00	T- C	0 / 58	0.02 (4)
D- E	-3127 / 0	-85.5	-85.5	0.93 (1)	2.00	C- S	0 / 1876	0.33 (1)
E- F	-3127 / 0	-85.5	-85.5	0.93 (1)	2.00	S- D	-1608 / 0	0.51 (1)
								25 (1)
								63 (1)
								18 (1)
								23 (1)
								0.46 (1)
V- A	-2609 / 0	0.0	0.0	0.31 (1)	5.32	N- H	0 / 159	0.04 (4)
L- J	-3993 / 0	0.0	0.0	0.31 (1)	5.32	N- I	-9 / 35	0.01 (4)
						M- I	-725 / 0	0.52 (1)
W- V	0 / 0	-96.5	-96.5	0.08 (1)	10.00	A- U	0 / 1801	0.45 (1)
V- U	0 / 0	-18.5	-18.5	0.04 (4)	10.00	M- J	0 / 2675	0.66 (1)
U- T	0 / 1717	-18.5	-18.5	0.27 (1)	10.00			
T- S	0 / 1746	-18.5	-18.5	0.27 (1)	10.00			
S- R	0 / 2312	-18.5	-18.5	0.36 (1)	10.00			
R- Q	0 / 2312	-18.5	-18.5	0.36 (1)	10.00			
Q- P	0 / 3357	-18.5	-18.5	0.52 (1)	10.00			
P- O	0 / 2571	-30.1	-30.1	0.41 (1)	10.00			
O- N	0 / 2571	-30.1	-30.1	0.41 (1)	10.00			
N- M	0 / 2550	-30.1	-30.1	0.41 (1)	10.00			
M- L	0 / 0	-30.1	-30.1	0.07 (4)	10.00			
L- K	0 / 0	-96.5	-96.5	0.08 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)		FACE		DIR.		TYPE		HEEL		CONN.	
JT	LOC.	LC1	MAX.	MAX+	---	FRONT	VERT	TOTAL	---	C1	
P	27-0-7	-2164	-2164								

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		DL	
				21.0		6.0	
				PSF			
				0.0		0.0	
				PSF			
				7.4		7.4	
				PSF			
				34.4		34.4	
				PSF			

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON PIGGYBACK TRUSS WITH SLOPES OF 6.00/12 AND -6.00/12 AND RESPECTIVE WALL HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL DEAD LOAD OF 3.0 P.S.F.

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 0-0
END SETBACK = 4-6-0
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 11-9-9 OF SPAN MEASURED FROM THE RIGHT.

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.14")
ALLOWABLE DEFL.(TL)= L/360 (1.29")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.27")

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=0.93/1.00 (D-E:1), BC=0.52/1.00 (P-Q:1) , WB=0.66/1.00 (J-M:1) , SSI=0.30/1.00 (D-E: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

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ID: ?e6mKUZ36g6Hb0QiNXna66vd61Q-5SrBZDhyWWoRtQldBowo?kaBCTm?kaXiASGuxMyHHC



TOTAL WEIGHT = 2 X 174 = 348 lb

JSI GRIP= 0.84 (M) (INPUT = 0.90)
JSI METAL= 0.48 (B) (INPUT = 1.00)

Scale = 1:66.



CONTINUED ON PAGE 2

Alpa Roof Truss, Maple

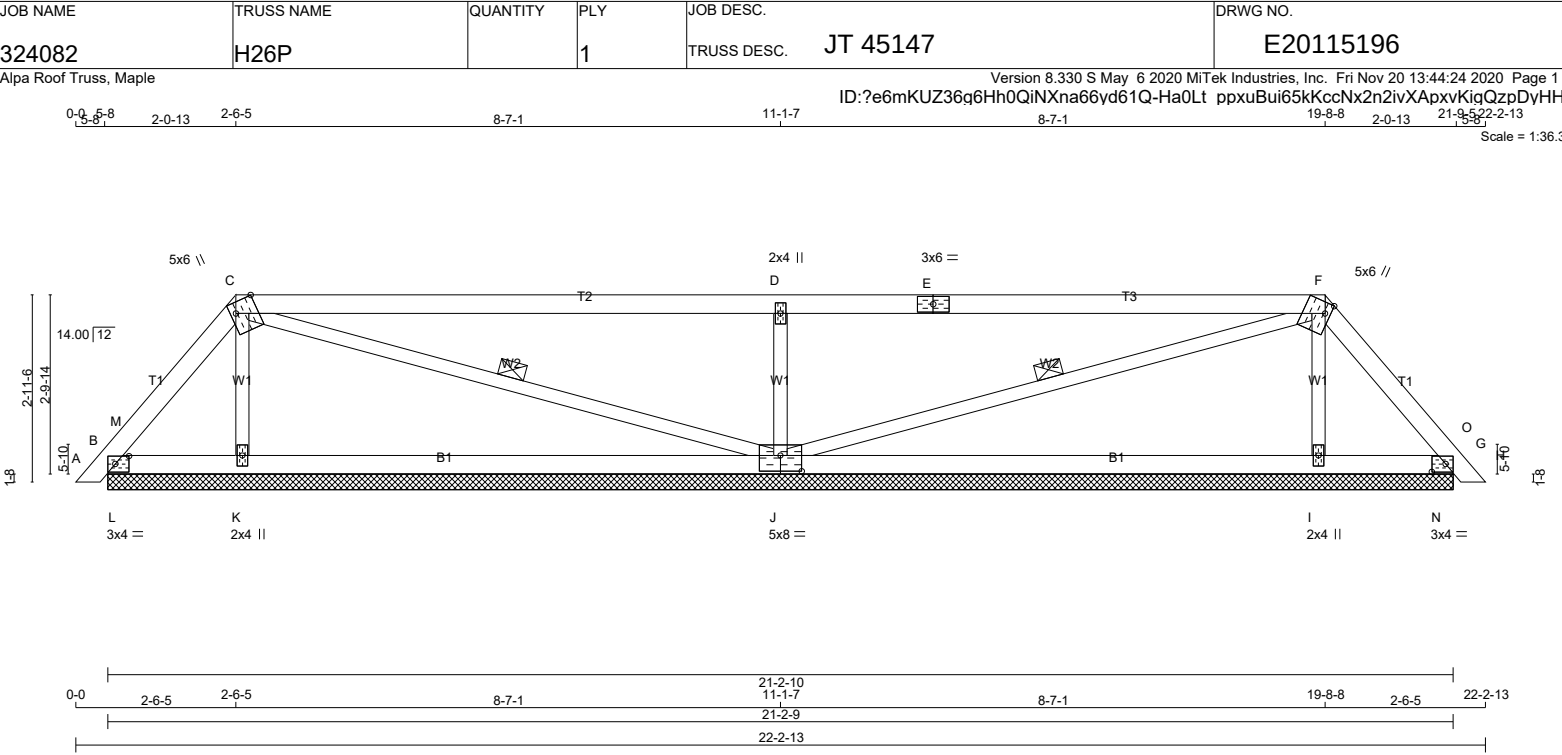
Version 8.330 S May 6 2020 MiTek Industries, Inc. Fri Nov 20 13:44:23 2020 Page 1

ID: ?e6mKUZ36q6Hh0QiNXna66vd61Q-pOSzqepBAa214yWYmv58PrF1nVEe4VnAT0hPHnyHH

Scale = 1:31.1

The drawing shows a side elevation of a roof truss. Key components include:

- Members:** Top chord (T2, T3), bottom chord (B1, B2), and web members (W1, W2, W3, W4).
- Connections:** Various gusset plates (e.g., NT1, W1, W2, W3, W4) and bolts (e.g., 3x4, 2x4, 4x6) are indicated.
- Dimensions:** Horizontal dimensions are provided at the top and bottom. Vertical dimensions on the left indicate heights of 14.00, 1.3-1.4, 1.3-1.4, and 1.3-1.4.
- Labels:** Nodes are labeled A, B, C, D, E, F, G, H. Members are labeled T2, T3, B1, B2, W1, W2, W3, W4.
- Notes:** A note at the bottom right states "TOTAL WEIGHT = 59 lb".



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
B - J	2x4	DRY	No.2
J - G	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0	1.50 2.50
C	TTWW+m	MT20	5.0	6.0	Edge 4.00
D	TMW+w	MT20	2.0	4.0	
E	TS-I	MT20	3.0	6.0	
F	TTWW+m	MT20	5.0	6.0	Edge 1.00
G	TMB1-I	MT20	3.0	4.0	1.50 2.50
I	BMW1+w	MT20	2.0	4.0	
J	BSWWW1-I	MT20	5.0	8.0	3.00 4.00
K	BMW1+w	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
B	139	0	139	0	-23	21-2-10 (10-7-69-13
K	434	0	434	0	0	21-2-10 (10-7-69-13
J	963	0	963	0	0	21-2-10 (10-7-69-13
I	434	0	434	0	0	21-2-10 (10-7-69-13
G	139	0	139	0	-23	21-2-10 (10-7-69-13

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

PROVIDE ANCHORAGE AT BEARING JOINT B FOR 150 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT G FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS				DEAD	SOIL
		SNOW	LIVE	PERM LIVE	WIND		
B	90	106 / 0	0 / 0	0 / 0	0 / 0	0 / -16	0 / 0
K	321	129 / 0	0 / 0	0 / 0	0 / 0	192 / 0	0 / 0
J	680	453 / 0	0 / 0	0 / 0	0 / 0	227 / 0	0 / 0
I	321	129 / 0	0 / 0	0 / 0	0 / 0	192 / 0	0 / 0
G	90	106 / 0	0 / 0	0 / 0	0 / 0	0 / -16	0 / 0

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 11	-78.0 -78.0	0.01 (1)	10.00	K-C	-229 / 0	0.04 (1)
B-M	0 / 139	-78.0 -78.0	0.10 (4)	10.00	C-J	-5 / 3	0.00 (1)
M-C	-110 / 0	-78.0 -78.0	0.06 (4)	6.25	J-D	-837 / 0	0.14 (1)
C-D	-46 / 0	-78.0 -78.0	0.98 (1)	6.25	J-F	-5 / 3	0.00 (1)
D-E	-47 / 0	-78.0 -78.0	0.98 (1)	6.25	I-F	-229 / 0	0.04 (1)
							00 (1)
							00 (1)
B-L	0 / 60	-18.5 -18.5	0.06 (1)	10.00			
L-K	0 / 60	-18.5 -18.5	0.33 (4)	10.00			
K-J	0 / 51	-18.5 -18.5	0.32 (4)	10.00			
J-I	0 / 51	-18.5 -18.5	0.32 (4)	10.00			
I-N	0 / 60	-18.5 -18.5	0.33 (4)	10.00			
N-G	0 / 60	-18.5 -18.5	0.06 (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

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

CSI: TC=0.98/1.00 (D-F:1), BC=0.33/1.00 (I-N:4), WB=0.14/1.00 (D-J:1), SSI=0.33/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

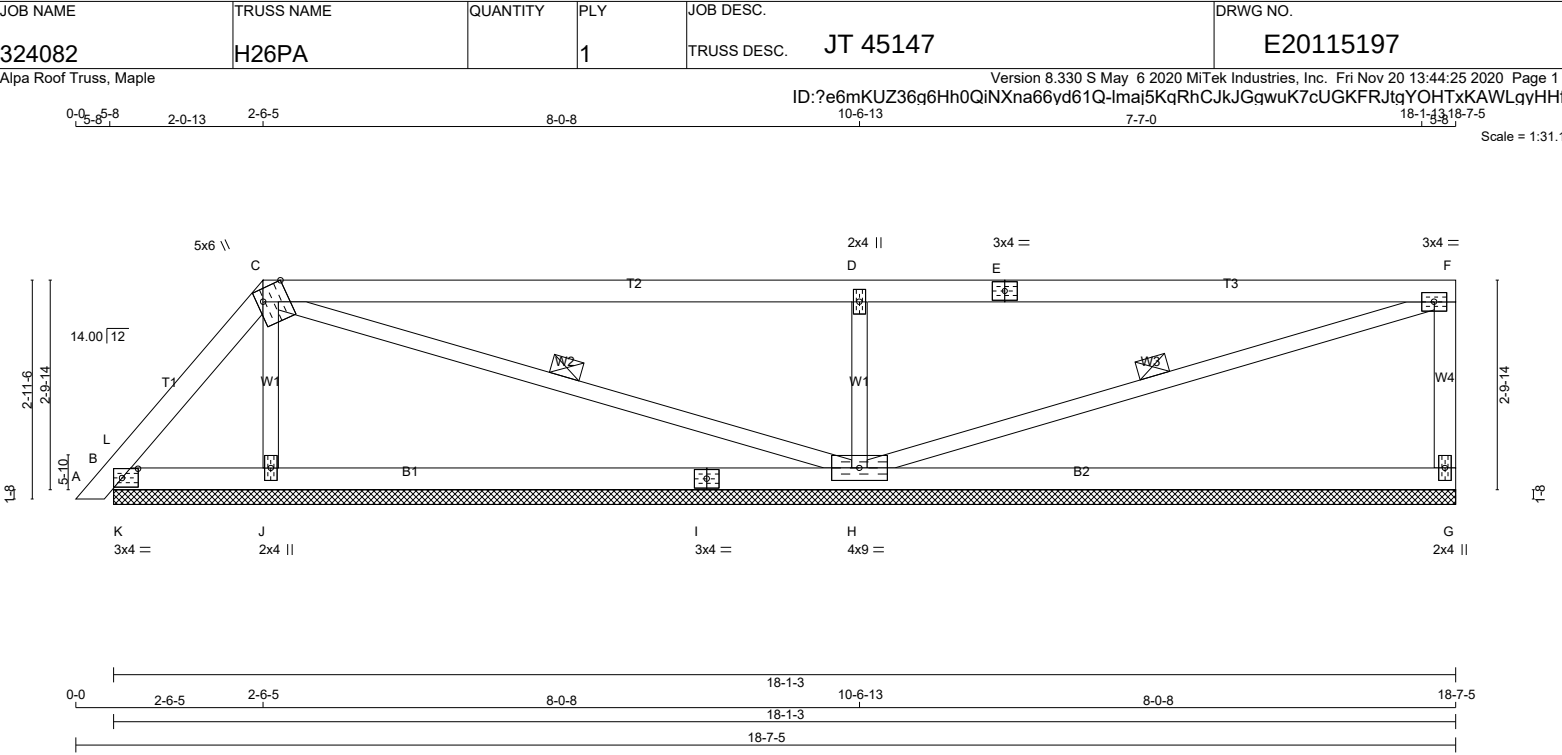
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.57 (F) (INPUT = 0.90)
JSI METAL= 0.41 (J) (INPUT = 1.00)

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

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMB1-i	MT20	3.0	4.0 1.50 2.50
C	TTWW+m	MT20	5.0	6.0 Edge 4.00
D	TMW+w	MT20	2.0	4.0
E	TS-t	MT20	3.0	4.0
F	TMVW-t	MT20	3.0	4.0
G	BMV1+p	MT20	2.0	4.0
H	BMWWV1-t	MT20	4.0	9.0
I	BS-t	MT20	3.0	4.0
J	BMW1+w	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 GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
G	294	0	294	0	0	18-1-3 (10-1-3)	1-1	18-1-3 (10-1-3)	1-1
B	157	0	157	0	0	18-1-3 (10-1-3)	1-1	18-1-3 (10-1-3)	1-1
J	360	0	360	0	0	18-1-3 (10-1-3)	1-1	18-1-3 (10-1-3)	1-1
H	966	0	966	0	0	18-1-3 (10-1-3)	1-1	18-1-3 (10-1-3)	1-1

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
G	210	127 / 0	0 / 0	0 / 0	0 / 0	83 / 0	0 / 0	
B	107	93 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0	
J	263	129 / 0	0 / 0	0 / 0	0 / 0	134 / 0	0 / 0	
H	687	427 / 0	0 / 0	0 / 0	0 / 0	260 / 0	0 / 0	

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD (PLF)		MAX. UNBRACED LENGTH		WEBS		MAX. FACTORED FORCE (LBS)		MAX. UNBRACED LENGTH	
MEMB.	FR-TO	FROM	TO	LC1	LC2	CS1	CS2	MEMB.	FR-TO	FROM	TO	CS1	CS2
A-B	0 / 11	-78.0	-78.0	0.01 (1)	10.00	J-C	-226 / 0	0.04 (1)					
B-L	0 / 53	-78.0	-78.0	0.04 (4)	10.00	C-H	-38 / 0	0.02 (1)					
L-C	-85 / 0	-78.0	-78.0	0.03 (1)	6.25	H-D	-783 / 0	0.13 (1)					
C-D	-2 / 0	-78.0	-78.0	0.86 (1)	10.00	H-F	0 / 2	0.00 (1)					
D-E	-2 / 0	-78.0	-78.0	0.86 (1)	10.00	K-L	-206 / 0	0.00 (1)					
E-F	-2 / 0	-78.0	-78.0	0.86 (1)	10.00								

J-I	0 / 39	-18.5	-18.5	0.31 (4)	10.00								
I-H	0 / 39	-18.5	-18.5	0.31 (4)	10.00								
H-G	0 / 0	-18.5	-18.5	0.31 (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, 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=0.86/1.00 (D-F:1), BC=0.31/1.00 (H-J:4), WB=0.13/1.00 (D-H:1), SSI=0.31/1.00 (D-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES			
PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	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= 0.83 (F) (INPUT = 0.90)
JSI METAL= 0.16 (D) (INPUT = 1.00)

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



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:

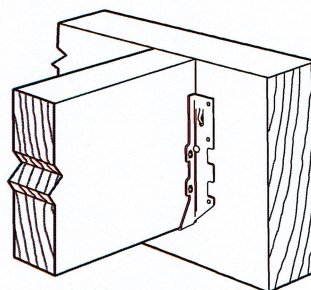
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

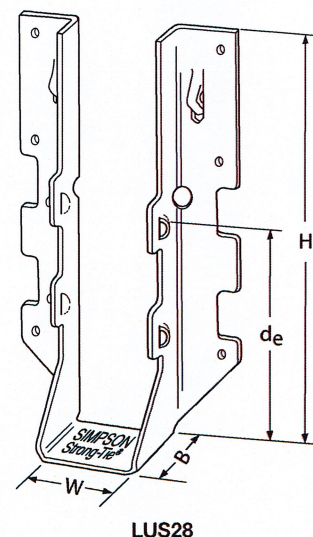
- Use all specified fasteners.
- Nails: 16d = 0.162" dia. x 3½" long common wire, 10d = 0.148" x 3" long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.

Options:

- These hangers cannot be modified



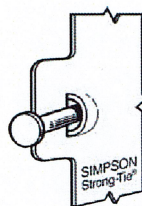
Typical LUS Installation



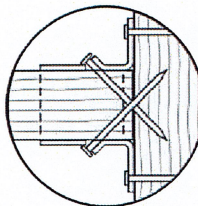
LUS28

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)
LUS24	18	1½	3½	1¾	1 15/16	(4) 10d	(2) 10d	710	1630	645	1155
LUS24-2	18	3½	3½	2	1 13/16	(4) 16d	(2) 16d	835	2020	590	1435
LUS26	18	1½	4¾	1¾	3½	(4) 10d	(4) 10d	1420	2170	1290	1630
LUS26-2	18	3½	4¾	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
LUS26-3	18	4½	4¾	2	3¼	(4) 16d	(4) 16d	1720	2595	1545	2340
LUS28	18	1½	6½	1¾	3¾	(6) 10d	(6) 10d	1420	2520	1290	1790
LUS28-2	18	3½	7	2	4	(6) 16d	(4) 16d	1720	3325	1545	2575
LUS28-3	18	4½	6¼	2	3¼	(6) 16d	(4) 16d	1720	3325	1545	2375
LUS210	18	1½	7 15/16	1¾	3¾	(8) 10d	(4) 10d	1420	2785	1290	2210
LUS210-2	18	3½	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
LUS210-3	18	4½	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

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T-SPECLUS20 3/20 exp. 6/22

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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:

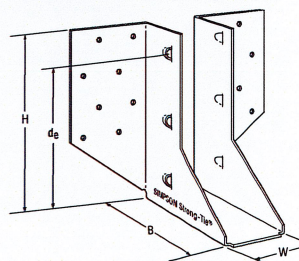
- Factored resistances are in accordance with CSA O86 -14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

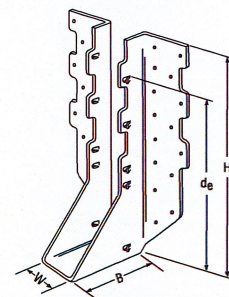
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3½" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

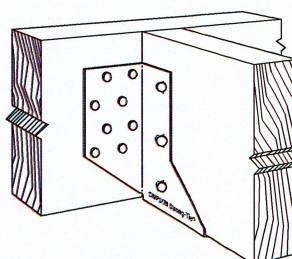
- See current catalogue for options



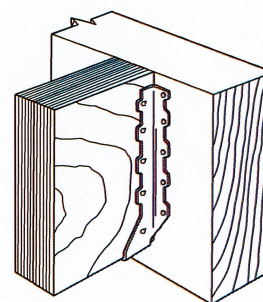
LJS26DS



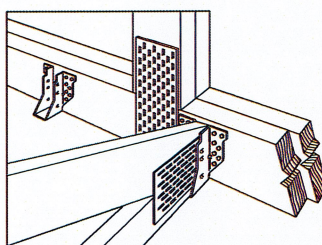
HUS210
(HUS26, HUS28, similar)



Typical LJS26DS
Installation



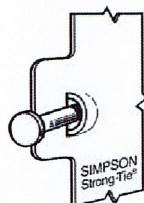
Typical HUS
Installation



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

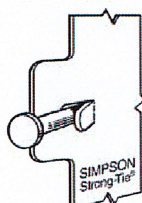
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K ₀ =1.15) lb.	Normal (K ₀ =1.00) lb.	Uplift (K ₀ =1.15) lb.	Normal (K ₀ =1.00) lb.
LJS26DS	18	1½	5	3½	4⅞	(16) 16d	(6) 16d	2055	4265	1460	4115
HUS26	16	1⅝	5⅞	3	3½	(14) 16d	(6) 16d	2705	4940	2065	3875
HUS28	16	1⅝	7⅜	3	6⅜	(22) 16d	(8) 16d	3605	5365	2675	4345
HUS210	16	1⅝	9⅜	3	7⅜	(30) 16d	(10) 16d	4505	5795	4010	4740
HUS1.81/10	16	1⅜	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.

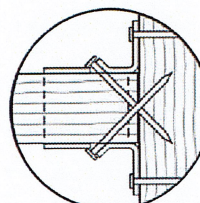


Dome Double Shear Nailing prevents tabs breaking off (available on some models).

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:

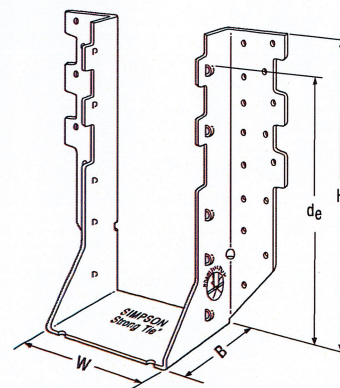
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

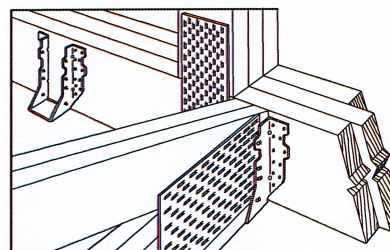
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3½" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

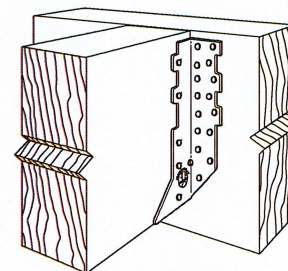
- See current catalogue for options



HHUS410



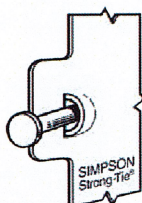
Typical HHUS Installation
(Truss Designer to provide fastener quantity for connecting multiple members together)



Typical HHUS Installation

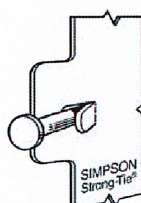
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K ₀ =1.15)	Normal (K ₀ =1.00)	Uplift (K ₀ =1.15)	Normal (K ₀ =1.00)
HHUS26-2	14	3½	5¼	3	3¼	(14) 16d	(6) 16d	2850	7335	2065	5205
HHUS28-2	14	3½	7½	3	6½	(22) 16d	(8) 16d	3765	8940	2675	6345
HHUS210-2	14	3½	9½	3	8	(30) 16d	(10) 16d	4670	9660	4235	7000
HHUS210-3	14	4¼	9	3	7¼	(30) 16d	(10) 16d	4670	9670	4235	6865
HHUS210-4	14	6¼	8¾	3	7¾	(30) 16d	(10) 16d	4670	10155	4235	7210
HHUS46	14	3½	5¼	3	3¼	(14) 16d	(6) 16d	2540	7335	2065	5205
HHUS48	14	3½	7½	3	6½	(22) 16d	(8) 16d	3765	8940	2675	6345
HHUS410	14	3½	9	3	8	(30) 16d	(10) 16d	4670	9855	4235	7000
HHUS5.50/10	14	5½	9	3	8	(30) 16d	(10) 16d	4670	10155	4235	7210
HHUS7.25/10	14	7¼	9	3½	7¾	(30) 16d	(10) 16d	4670	10155	3370	7210

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

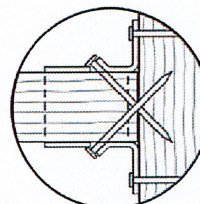


Dome Double Shear Nailing prevents tabs breaking off (available on some models).

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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T-SPECHHUS20 3/20 exp. 6/22

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TC – Truss Connectors

SIMPSON
Strong-Tie

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

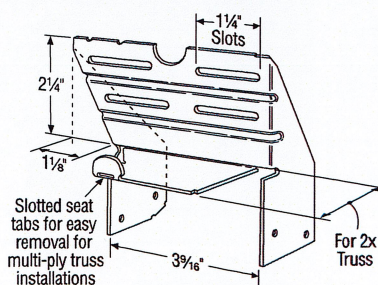
Design: Factored resistances are in accordance with CSA 086-14

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.

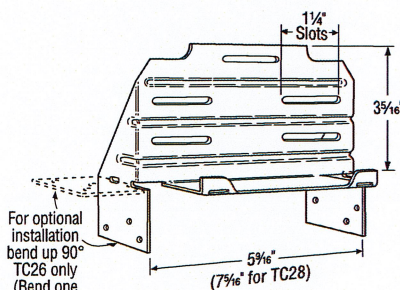
Optional TC Installation:

- 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.



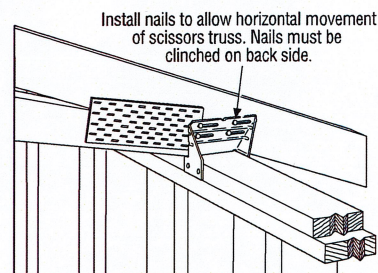
TC24

U.S. Patent 4,932,173

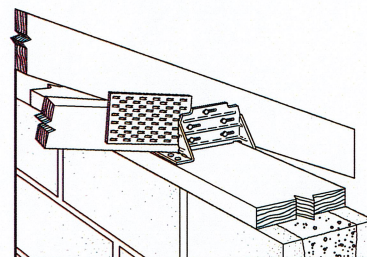


TC26

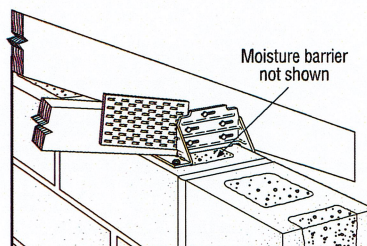
(TC28 Similar)



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.



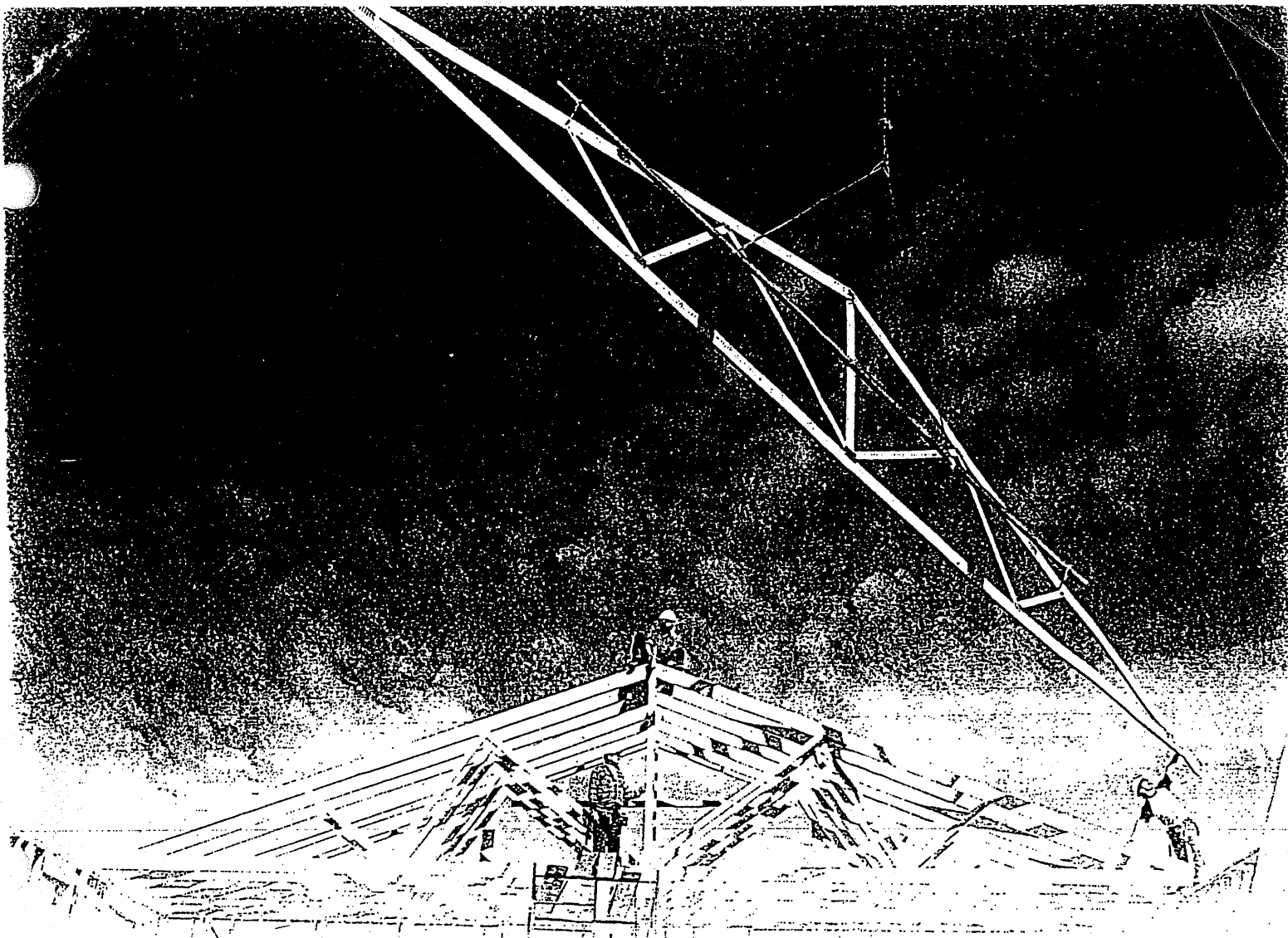
**LIMIT
STATES
DESIGN**

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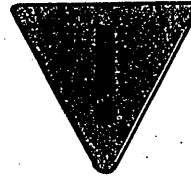
Wood Truss Installation

**A Guide to proper handling, erecting and bracing
metal plate connected wood trusses**

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Warning



General

Familiarity with the Construction Design Documents, the Truss Design Drawings, and Truss Placement Plans (if required by the Construction Design Documents) is required to properly erect, brace, and connect the trusses to the building system.

All of the care and quality involved in the design and manufacture of wood trusses can be jeopardized if the trusses are not properly handled, erected, and braced.

The consequences of improper handling, erecting, and bracing may be a collapse of the structure, which at best is a substantial loss of time and materials, and at worst is a loss of life. The majority of truss accidents occur during truss installation and not as a result of improper design or manufacture.

Prior to truss erection, the builder/erector shall meet with the erection crew for a safety and planning meeting, making sure each crew member understands his or her roles and responsibilities during the erection process.

Temporary Erection Bracing

Trusses are not marked in any way to identify the frequency, or location of temporary erection bracing.

All temporary bracing shall comply with the latest edition of *Commentary and Recommendations for Handling, Installing & Bracing Metal Plate Connected Wood Trusses* (HIB), published by the Truss Plate Institute, and/or as specified in the Construction Design Documents prepared by the building designer.

Permanent Truss Bracing

Permanent bracing for the roof or floor trusses is the responsibility of the building designer and should be shown on the Construction Design Documents. Permanent bracing locations for individual compression members of a wood truss are shown on the Truss Design Drawings, and shall be installed by the building or erection contractor. This bracing is needed for the proper performance of individual trusses within the roof or floor system. The design and connection of the bracing to the truss and then to the overall building system is the responsibility of the building designer, and is in addition to the permanent bracing plan, which is also specified by the building designer.

Special Design Requirements

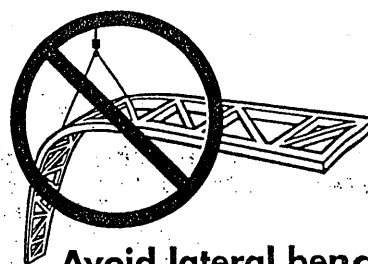
Special design requirements, such as wind bracing, portal bracing, seismic bracing, diaphragms, shear walls, or other load transfer elements and their connections to wood trusses must be considered separately by the building designer, who shall determine size, location, and method of connections for all bracing as needed to resist these forces.

1

Unloading & Lifting

Never handle trusses flat

Beginning with the unloading process, and throughout all phases of construction, care must be taken to avoid lateral bending of trusses, which can cause damage to the lumber and metal connector plates at the joints.

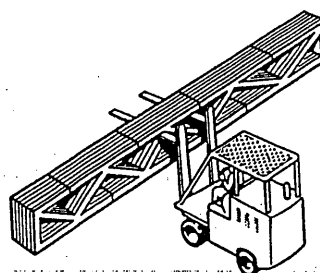
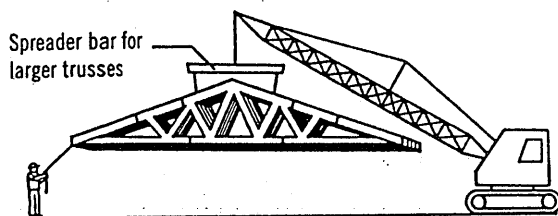


Avoid lateral bending

- Use special care in windy weather.
- If using a crane within 10 feet of an electric line, contact the local power company.
- If using a crane within 5 miles of an airport, contact the airport 30 days prior to erection to learn about any safety regulations that must be followed.

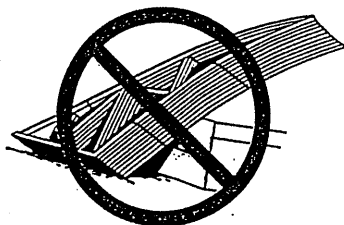
2

Job Site Handling



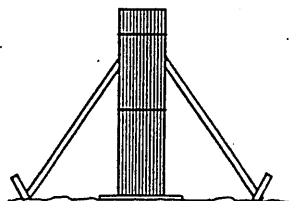
All trusses should be picked up at the top chords in a vertical position only

Proper banding and smooth ground allow for unloading of trusses without damage. This should be done as close to the building site as possible to minimize handling. Do not break banding until installation begins. Hand erection of trusses is allowed, provided excessive lateral bending is prevented.



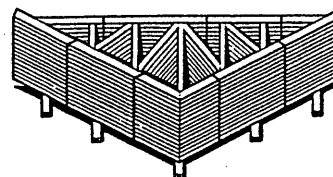
Do not store unbraced bundles upright

If trusses are stored vertically they shall be braced in a manner that will prevent tipping or topping. Generally cutting of the banding is done just prior to installation.



Do not store on uneven ground

If trusses are stored horizontally, blocking should be used on eight to ten foot centers, or as required, to minimize lateral bending and moisture gain.

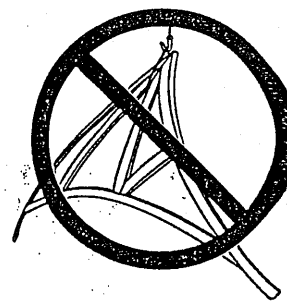


Care should be exercised when removing banding to avoid damaging trusses.

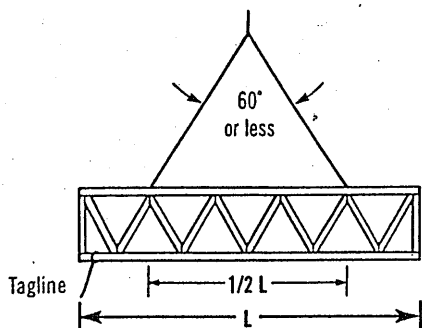
During long term storage, trusses shall be protected from the environment in a manner that provides for adequate ventilation of the trusses. If tarpaulins or other material is used, the ends shall be left open for ventilation. Plastic is not recommended, since it can trap moisture.

3 Hoisting

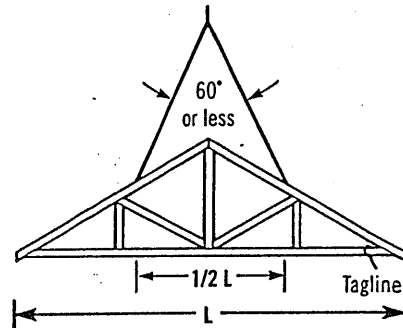
All trusses that are erected one at a time shall be held safely in position by the erection equipment until such time as all necessary bracing has been installed and the ends of the trusses are securely fastened to the building.



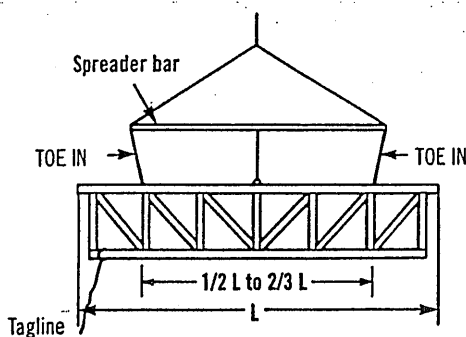
Avoid lateral bending



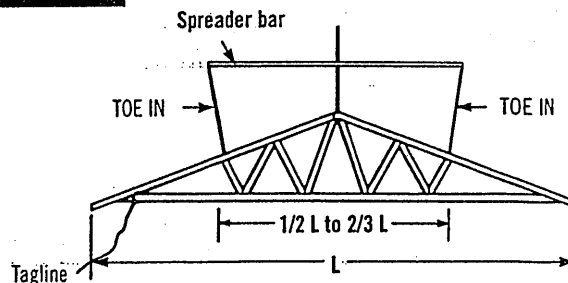
$L \leq 30'$



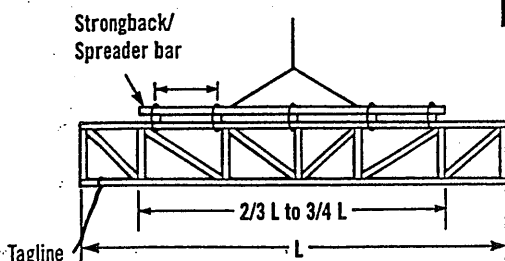
Truss sling is acceptable where these criteria are met.



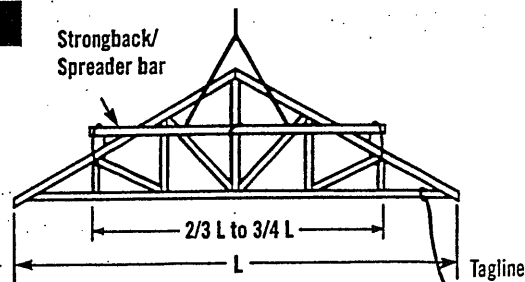
$30' < L \leq 60'$



Use spreader bar in all other cases. It should be noted that the lines from the ends of the spreader bar "TOE IN"; if these lines should "TOE OUT" the truss may fold in half.



$L > 60'$



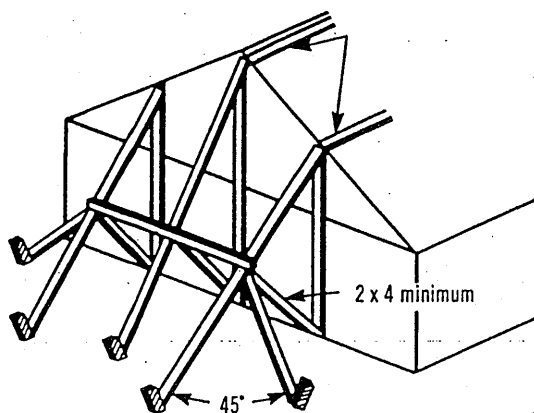
For lifting trusses with spans in excess of 60 feet, it is recommended that a strongback/spreader bar be used as illustrated. The strongback/spreader bar should be attached to the top chord and web members at intervals of approximately 10 feet. Further, the strongback/spreader bar should be at or above the mid-height of the truss to prevent overturning. The strongback/spreader bar can be of any material with sufficient strength to safely carry the weight of the truss and sufficient rigidity to adequately resist bending of the truss.

4 Beginning the Erection Process

It is important for the builder or erection contractor to provide substantial bracing for the first truss erected. The two or more trusses making up the rest of the first set are tied to and rely upon the first truss for stability. Likewise, after this first set of trusses is adequately cross-braced, the remaining trusses installed rely upon this first set for stability. Thus, the performance of the truss bracing system depends to a great extent on how well the first group of trusses is braced.

Ground Brace - Exterior

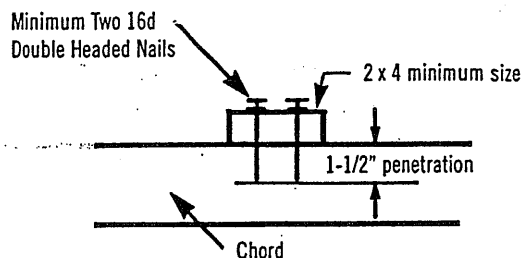
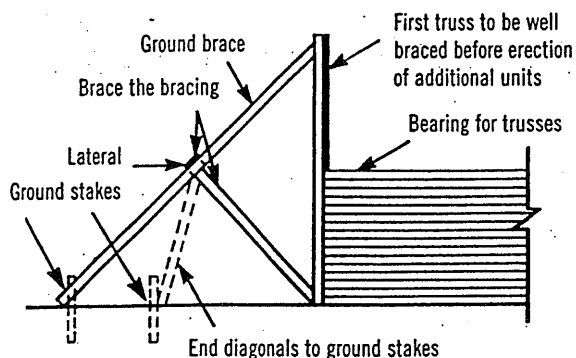
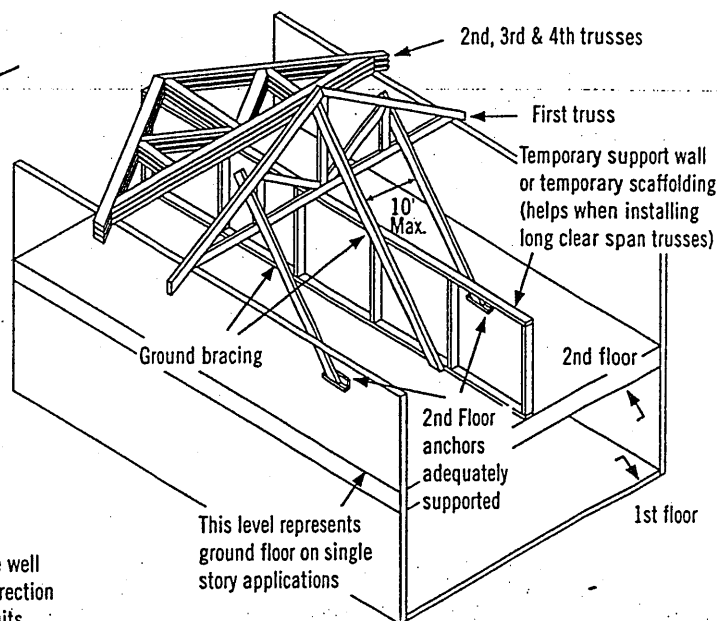
One satisfactory method ties the first unit of trusses off to a series of braces that are attached to a stake driven into the ground and securely anchored. The ground brace itself should be supported as shown below or it is apt to buckle. Additional ground braces in the opposite direction, inside the building, are also recommended.



Note: Locate ground braces for first truss directly in line with all rows of top chord continuous lateral bracing (either temporary or permanent).

Ground Brace - Interior

Another satisfactory method where height of building or ground conditions prohibit bracing from the exterior is to tie the first truss rigidly in place from the interior at the floor level, provided the floor is substantially completed and capable of supporting the ground bracing forces. Securely fasten the first truss to the middle of the building. Brace the bracing similar to exterior ground bracing shown at left. Set trusses from the middle toward the end of the building. Properly cross-brace the first set of trusses before removing floor braces and setting remaining trusses.

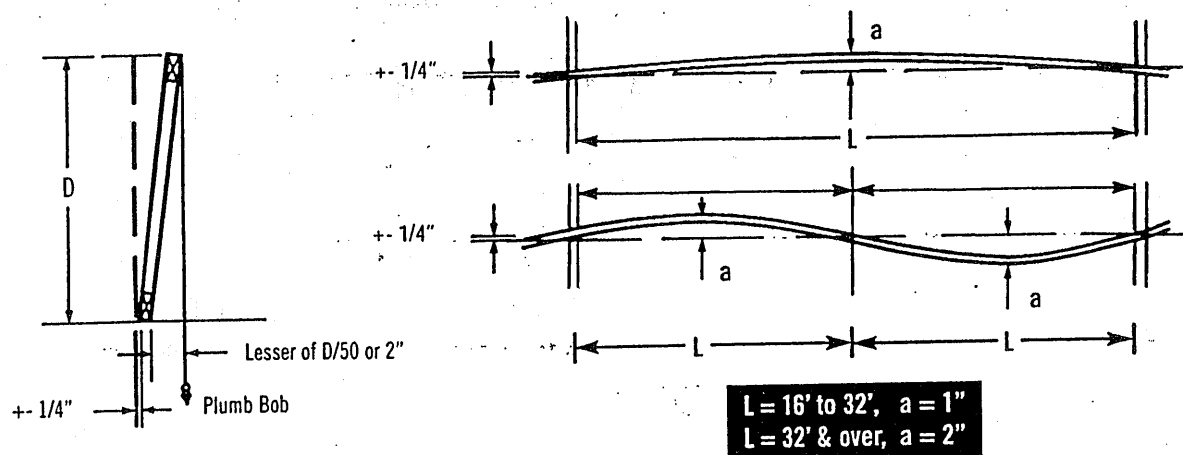


Inadequate size of bracing material or inadequate fastening is a major cause of erection dominoing.

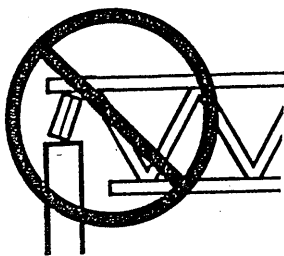
5 Erection Tolerance

Complying with erection tolerances is critical to achieving an acceptable roof or floor line, and to accomplishing effective bracing. Setting trusses within tolerance the first time will prevent the need for the hazardous practice of respacing or adjusting trusses when roof sheathing or roof purlins are installed. Trusses leaning or bowing can cause nails to miss the top chords when sheathing is applied, and create cumulative stresses on the bracing, which is a frequent cause of dominoing.

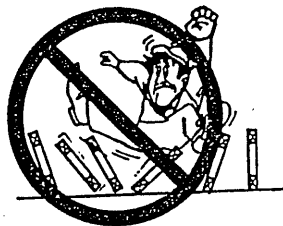
When sheathing, make sure nails are driven into the top chord of the trusses.



6 Bracing



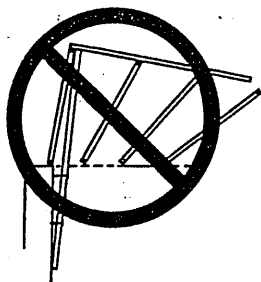
Do not install trusses on temporarily connected supports



Do not walk on unbraced trusses



Do not walk on trusses or gable ends lying flat

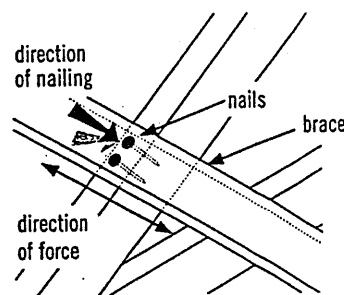


Nails in withdrawal (parallel to force)

All anchors, hangers, tie-downs, seats, bearing ledgers, etc., that are part of the supporting structure shall be accurately and properly placed and permanently attached before truss installation begins. No trusses shall ever be installed on anchors or ties that have temporary connections to the supporting structure.

Nailing scabs to the end of the building to brace the first truss is not recommended.

All nailing of bracing should be done so that nails are driven perpendicular to the direction of force, as shown at right.



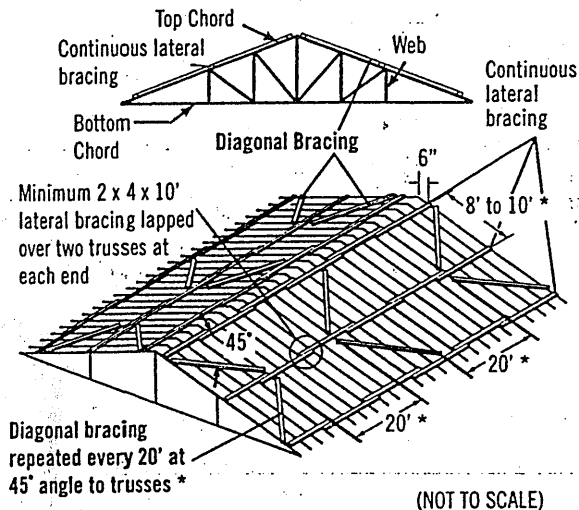
Well nailed (perpendicular to force)

7 Bracing Requirements for 3 Planes of Roof

Temporary erection bracing must be applied to three planes of the roof system to ensure stability: Plane 1) Top Chord (sheathing), Plane 2) Bottom Chord (ceiling plane), and Plane 3) Web Member plane or vertical plane perpendicular to trusses.

1) Top Chord Plane

Most important to the builder or erection contractor is bracing in the plane of the top chord. Truss top chords are susceptible to lateral buckling before they are braced or sheathed.

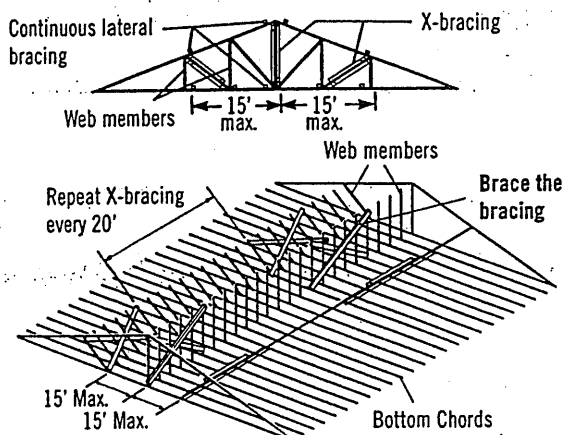


Exact spacing between trusses should be maintained as bracing is installed to avoid the hazardous practice of removing bracing to adjust spacing. This act of "adjusting spacing" can cause trusses to topple if connections are removed at the wrong time.

3) Web Member Plane

"X" bracing, as shown, is critical in preventing trusses from leaning or dominoing. Repeat as shown to create a succession of rigid units.

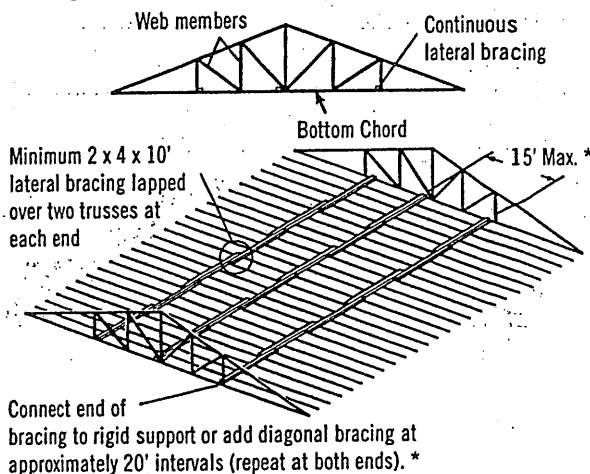
X-bracing should be installed on vertical web members wherever possible, at or near lateral bracing. Plywood or OSB may be substituted for X-bracing.



Note: Top chords and some web members are not shown, in order to make drawings more readable.

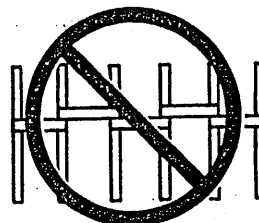
2) Bottom Chord Plane

In order to hold proper spacing on the bottom chord, temporary bracing is recommended on the top of the bottom chord.

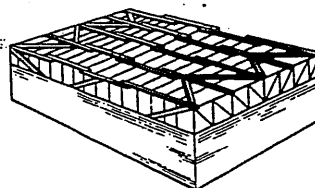


* Long spans, heavy loads or other spacing configurations may require closer spacing between lateral bracing and closer intervals between diagonals. Consult the building designer or HIB and DSB (Recommended Design Specification for Temporary Bracing of Metal-Plate Connected Wood Trusses) for details.

Diagonal or cross-bracing is very important!



Do not use short blocks to brace individual trusses without a specific bracing plan detailing their use

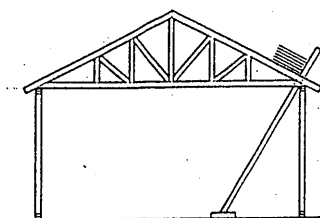
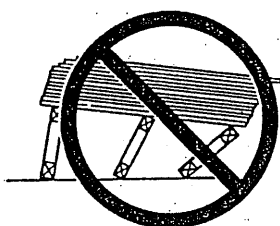


Bracing requirements using the same principles apply to parallel chord trusses

8 Stacking Materials

Do not proceed with building completion until all bracing is securely and properly in place

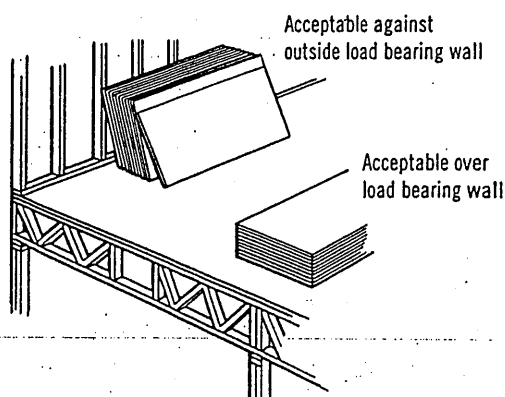
Never stack materials on unbraced or inadequately braced trusses



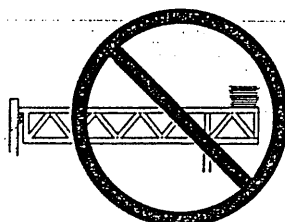
Platform must be rigidly braced

Proper distribution of construction materials is a must during construction.

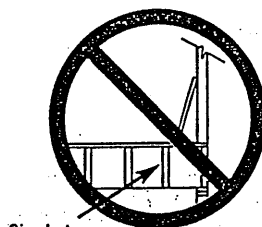
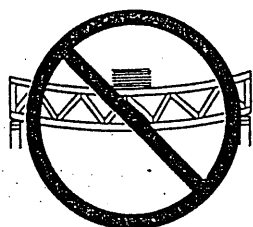
Never stack materials near a peak



Never stack materials on the cantilever of a truss

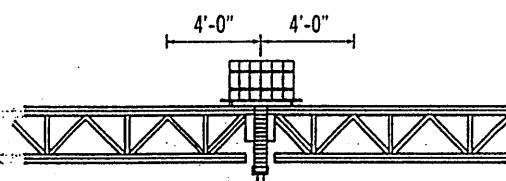


Always stack materials over two or more trusses.



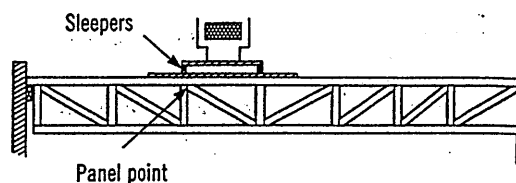
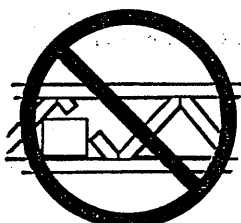
Single truss

Never overload small groups or single trusses. Position load over as many trusses as possible.



Roofing and mechanical contractors are cautioned to stack materials only along outside supporting members or directly over inside supporting members. Trusses are not designed for dynamic loads (i.e., moving vehicles). Extreme care should be taken when loading and stacking construction materials (rolled roofing, mechanical equipment, etc.) on the roof or floor system.

Never cut any structural member of a truss.



Sleepers for mechanical equipment should be located at panel points (joints) or over main supporting members, and only on trusses that have been designed for such loads.

Caution Notes

Errors in building lines and/or dimensions, or errors by others shall be corrected by the contractor or responsible construction trade subcontractor or supplier before erection of trusses begins.

Cutting of nonstructural overhangs is considered a part of normal erection and shall be done by the builder or erection contractor.

Any field modification that involves the cutting, drilling, or relocation of any structural truss member or connector plate shall not be done without the approval of the truss manufacturer or a licensed design professional.

The methods and procedures outlined are intended to ensure that the overall construction techniques employed will put floor and roof trusses safely in place in a completed structure. These recommendations for bracing wood trusses originate from the collective experience of leading technical personnel in the wood truss industry, but must, due to the nature of responsibilities involved, be presented only as a guide for use by a qualified building designer, builder, or erection contractor. Thus, the Wood Truss Council of America expressly disclaims any responsibility for damages arising from the use, application, or reliance on the recommendations and information contained herein.

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