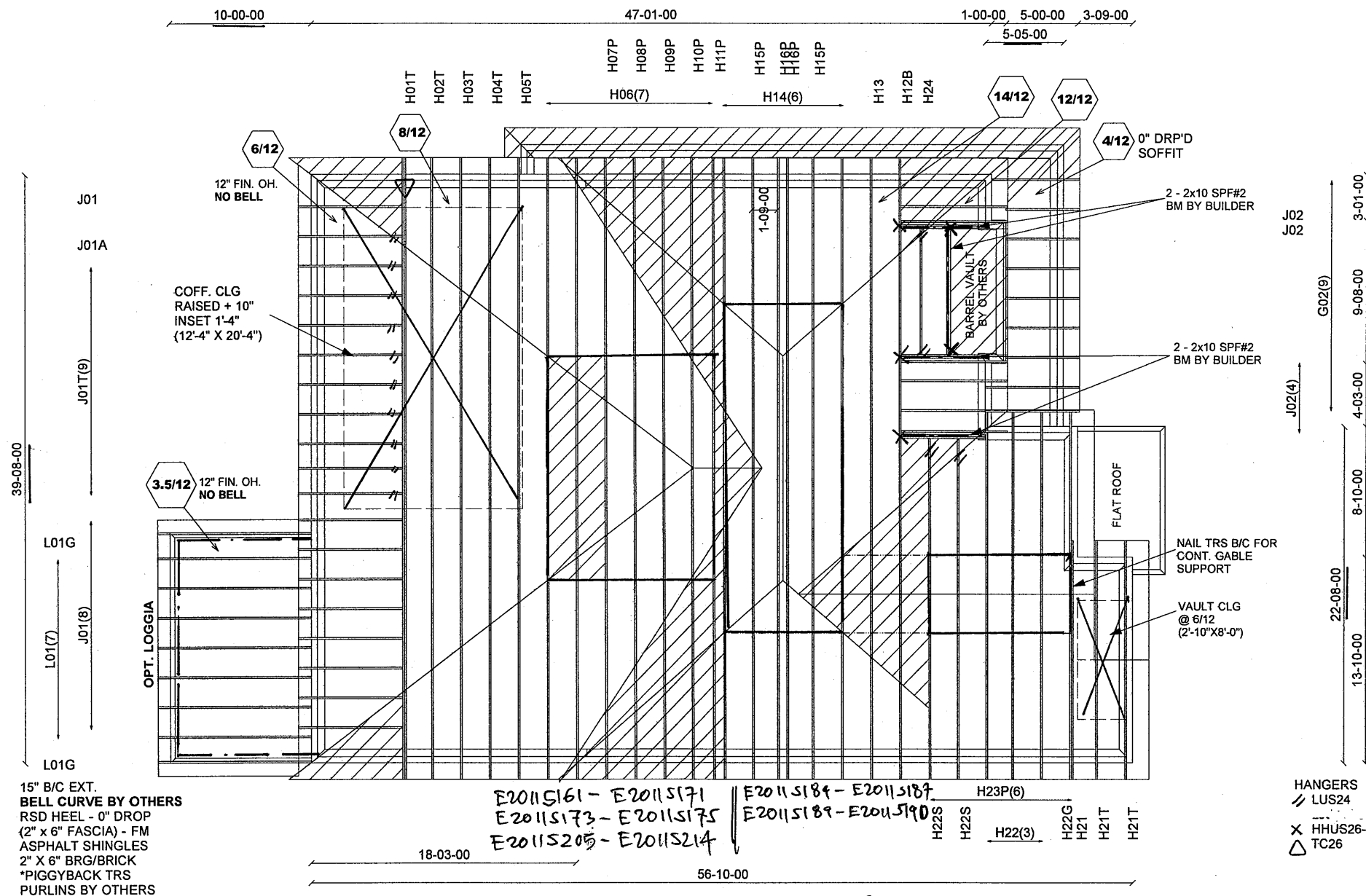




ALL CONVENTIONAL FRAMING TO CONFORM WITH PART 9 O.B.C. LATEST EDITION. ROOF RAFTERS THAT CROSS OVER TRUSSES TO BE 2X4 SPF #2 @ 24" O.C WITH A VERT. POST TO THE TRUSS UNDERNEATH AT EACH CROSS POINT. VERT. POSTS LONGER THAN 6' TO HAVE LATERAL BRACING SO THAT THE DISTANCE BETWEEN END POINTS & BETWEEN ROWS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

Mitek V. 8.2.0

CONVENTIONAL FRAMING BY OTHERS



Job Track: 45147

Layout ID: 324083

Plan Log: 106926

Builder / Location:

GOLD PARK HOMES / VAUGHAN

Project: PINE VALLEY

Date: 2020-09-24

Designer: emozes

Model / Elevation:

5009

/ B

STD OR OPT LOGGIA

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

EWP DESIGN INC.

(905) 832-2250

FAX (905) 832-0286

RESPONSIBILITIES AND SPECIFICATIONS

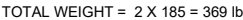
RESPONSIBILITIES

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

SPECIFICATIONS

1. Trusses designed by EWP DESIGN INC. conform to the relevant section of the Ontario Building Code of Canada (Part 9 or Part 4) or to the Canadian code for farm buildings, whichever applies to the building type, as indicated on the EWP DESIGN INC. drawings, and conform to the design procedures established by the Truss Plate Institute of Canada. Unit stresses used for truss designs are as per the edition of CSA-O86 shown on EWP DESIGN INC. drawings.
2. Lumber is to be the size, species and grade as specified on EWP DESIGN INC. drawings.
3. Moisture content of lumber shall not exceed 19% in service unless specified otherwise.
4. Metal connector plates shall be applied to both faces of truss at each joint and shall be positioned as specified.
5. Top chords of trusses are assumed to be continuously braced laterally by roof sheathing or by purlins at intervals not exceeding 12.5 times the thickness of top chord member.
6. Bottom chords shall be laterally braced at intervals not exceeding 3M (10') o.c., where rigid ceiling is not applied directly to the underside of chords.

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

E20115161

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

CANTILEVER DEFLECTION:
ALLOWABLE DEFL.(LL)= $L/120$ (0.19")
CALCULATED VERT. DEFL.(LL) = $L/332$ (0.06")

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

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

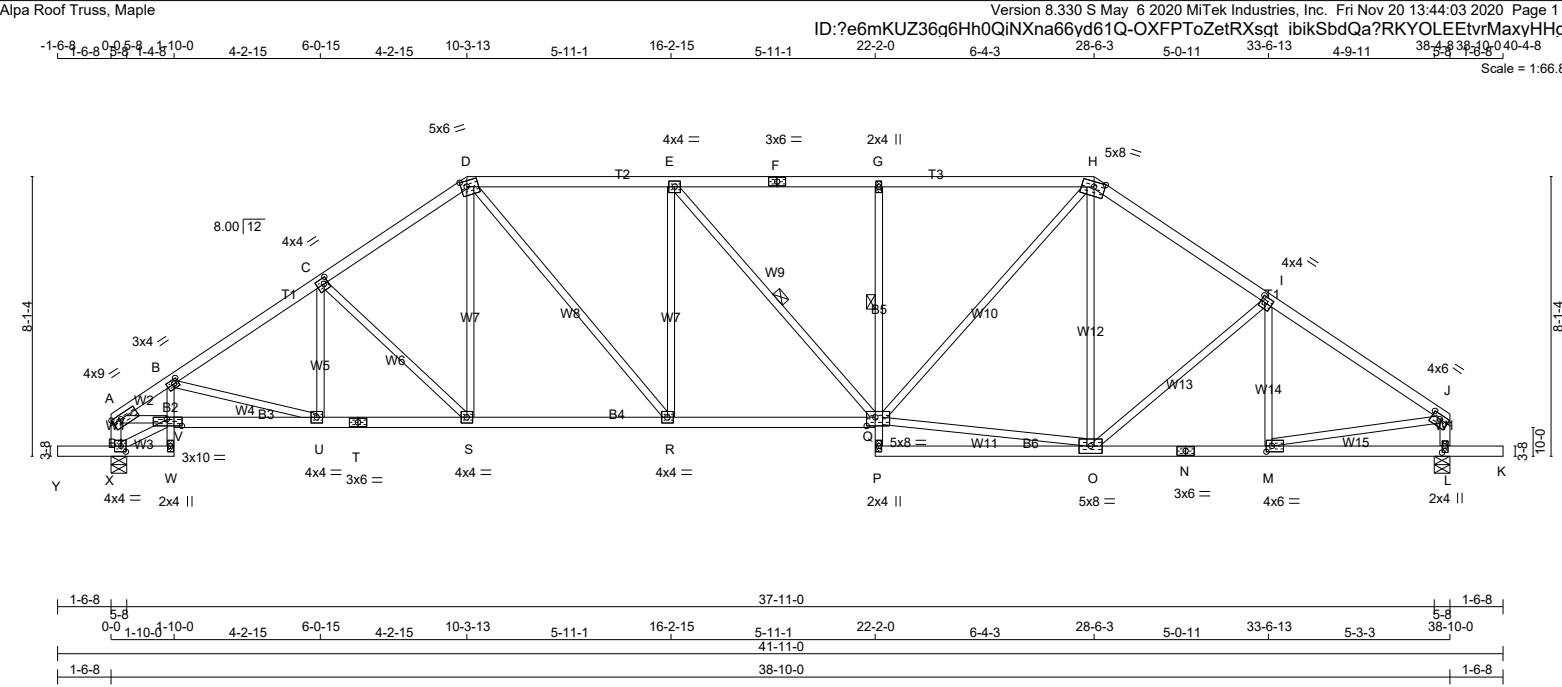


Scale = 1:66.8



Scale = 1:66.8

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



LUMBER				DESCR.	
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
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	
P - N	2x4	DRY	No.2	SPF	
N - K	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMVW-t	MT20	4.0	9.0	1.50 3.00
B	TMVW-t	MT20	3.0	4.0	1.50 1.50
C	TMWW-t	MT20	4.0	4.0	2.00 1.50
D	TTWW-m	MT20	5.0	6.0	2.00 2.00
E	TMWW-t	MT20	4.0	4.0	
F	TS-t	MT20	3.0	6.0	
G	TMV+p	MT20	2.0	4.0	
H	TTWW-m	MT20	5.0	8.0	1.75 3.75
I	TMWW-t	MT20	4.0	4.0	2.00 1.50
J	TMVW-t	MT20	4.0	6.0	1.50 3.00
L	BMV1+p	MT20	2.0	4.0	2.25 1.00
M	BMWW-t	MT20	4.0	6.0	2.00 2.00
N	BS-t	MT20	3.0	6.0	
O	BMWW-t	MT20	5.0	8.0	
P	BMV+p	MT20	2.0	4.0	
Q	BVMMWW-I	MT20	5.0	8.0	3.00 3.00
R, S, U					
T	BMWW-t	MT20	4.0	4.0	
T	BS-t	MT20	3.0	6.0	
V	BVMMWW-I	MT20	3.0	10.0	2.25 5.25
W	BMV+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		BRG		BRG	
JT		VERT	HORZ	DOWN	HORZ	IN-SX	UPLIFT	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
X		1444	881 / 0	0 / 0	0 / 0
L		1439	879 / 0	0 / 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 (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORIZ. LOAD (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (PLF)	
FR-TO		FROM	TO	UNBRACED LENGTH	FR-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)

V-U	0 / 2303	-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 .

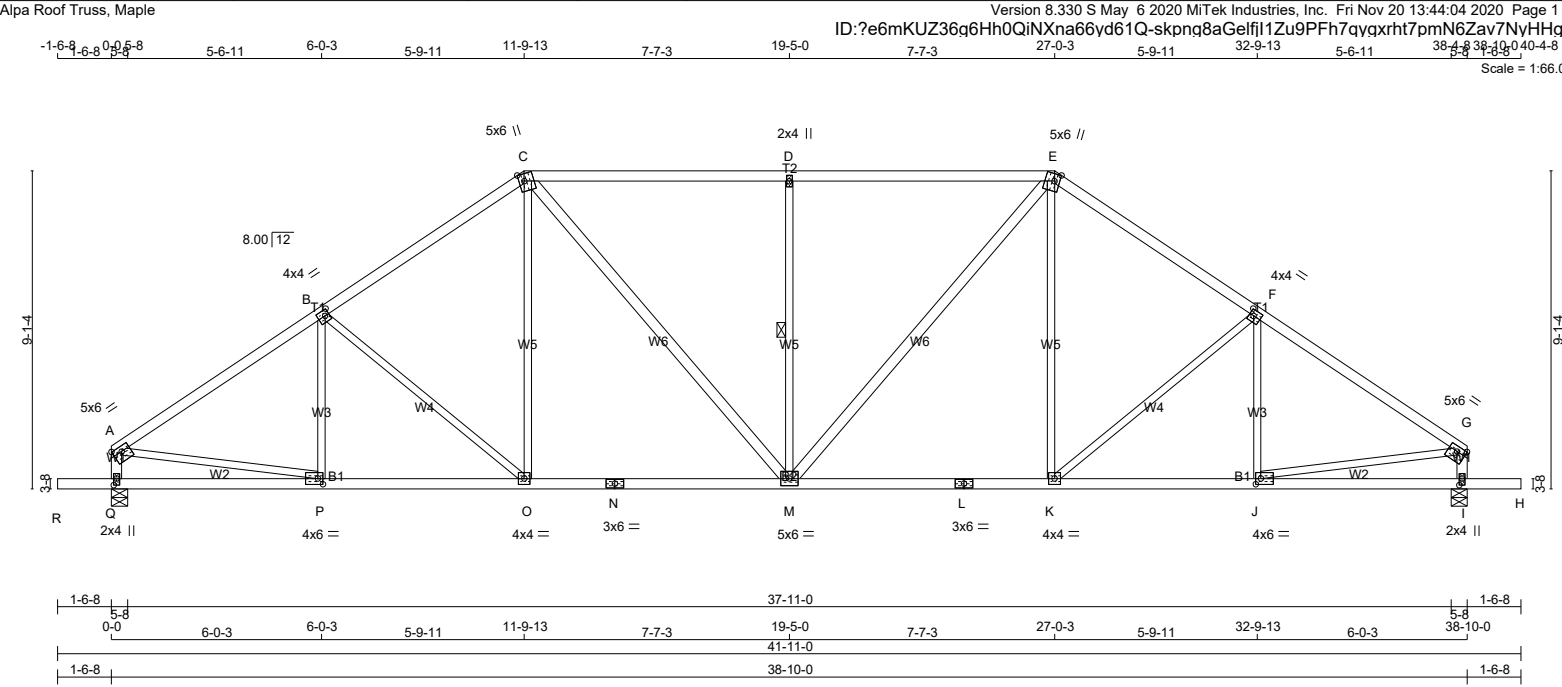
NAIL VALUES					
PLATE	GRIP(DRY)	SHEAR	SECTION		
	(PSI)	(PLI)	(PLI)		
	MAX	MIN	MAX	MIN	MAX
MT20	650	371	1747	788	1987

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)

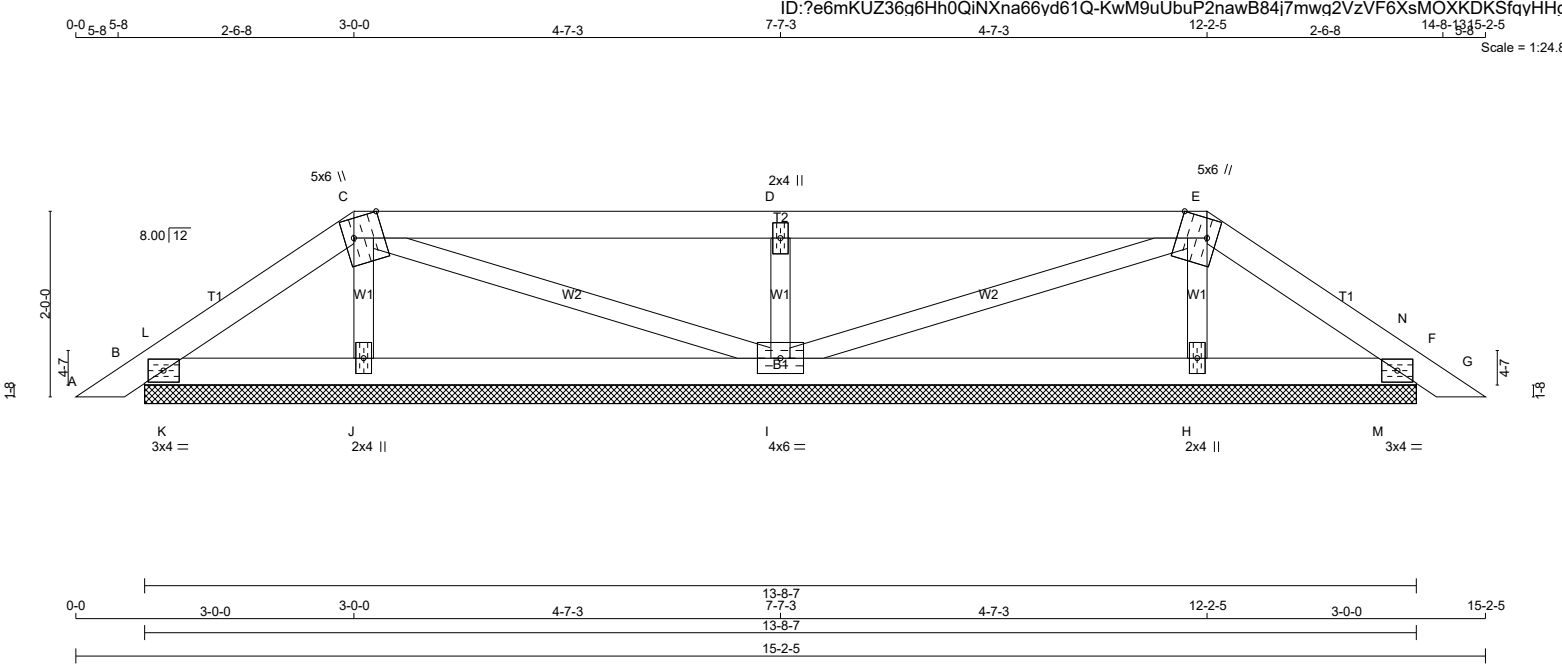
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324082	H06		1	TRUSS DESC. JT 45147	E20115166



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				TOP CH. LL = 21.0 PSF			
A - C	2x4	DRY	No.2	GROSS REACTION				DL = 6.0 PSF			
C - E	2x4	DRY	No.2	MAXIMUM FACTORED				BOT CH. LL = 0.0 PSF			
E - G	2x4	DRY	No.2	INPUT				DL = 7.4 PSF			
Q - A	2x4	DRY	No.2	REQRD				TOTAL LOAD = 34.4 PSF			
I - G	2x4	DRY	No.2	FACTORED				SPACING = 24.0 IN./C			
R - N	2x4	DRY	No.2	MAXIMUM FACTORED				LOADING IN FLAT SECTION BASED ON			
N - L	2x4	DRY	No.2	INPUT				PIGGYBACK TRUSS WITH SLOPES OF 6.00/12			
L - H	2x4	DRY	No.2	REQRD				AND -6.00/12 AND RESPECTIVE WALL HEIGHTS			
ALL WEBS 2x3 DRY No.2 SPF				UNFACTORED REACTIONS				OF 0-0 AND 0-0 AND AN ADDITIONAL DEAD			
EXCEPT				1ST LCASE				LOAD OF 3.0 P.S.F.			
C - M	2x4	DRY	No.2	MAX./MIN. COMPONENT REACTIONS				THIS TRUSS IS DESIGNED FOR RESIDENTIAL			
M - E	2x4	DRY	No.2	COMBINED				OR SMALL BUILDING REQUIREMENTS OF PART			
DRY: SEASONED LUMBER.				SNOW				9, NBCC 2015			
				LIVE				THIS DESIGN COMPLIES WITH:			
				PERM.LIVE				- PART 9 OF CBC 2018 , ABC 2019			
				WIND				- PART 9 OF OBC 2012 (2019 AMENDMENT)			
				DEAD				- CSA 086-14			
				SOIL				- TPIC 2014			
				TOTAL LOAD CASES: (4)				(55 % OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F.			
				CHORDS				RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED			
				MEMB. FORCE				ROOF LIVE LOAD			
				VERT. LOAD LC1				ALLOWABLE DEFL.(LL)= L/360 (1.29")			
				MAX. (PLF)				CALCULATED VERT. DEFL.(LL) = L/ 999 (0.11")			
				CSI (LC)				ALLOWABLE DEFL.(TL)= L/360 (1.29")			
				MAX. UNBRAC				CALCULATED VERT. DEFL.(TL) = L/ 999 (0.25")			
				LENGTH				CANTILEVER DEFLECTION:			
				FR-TO				ALLOWABLE DEFL.(LL)= L/120 (0.19")			
				A-B				CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")			
				B-C				ALLOWABLE DEFL.(TL)= L/120 (0.19")			
				C-D				CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")			
				D-E				CSI: TC=0.78/1.00 (D-E:1) , BC=0.43/1.00 (J-K:1) ,			
				E-F				WB=0.47/1.00 (G-J:1) , SSI=0.32/1.00 (D-E:1)			
				F-G				DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10			
				Q-A				COMP=1.10 SHEAR=1.10 TENS= 1.10			
				I-G				COMPANION LIVE LOAD FACTOR = 1.00			
				R-Q				TRUSS PLATE MANUFACTURER IS NOT			
				C-P				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= 0.85 (J) (INPUT = 0.90)			
								JSI METAL= 0.62 (N) (INPUT = 1.00)			

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

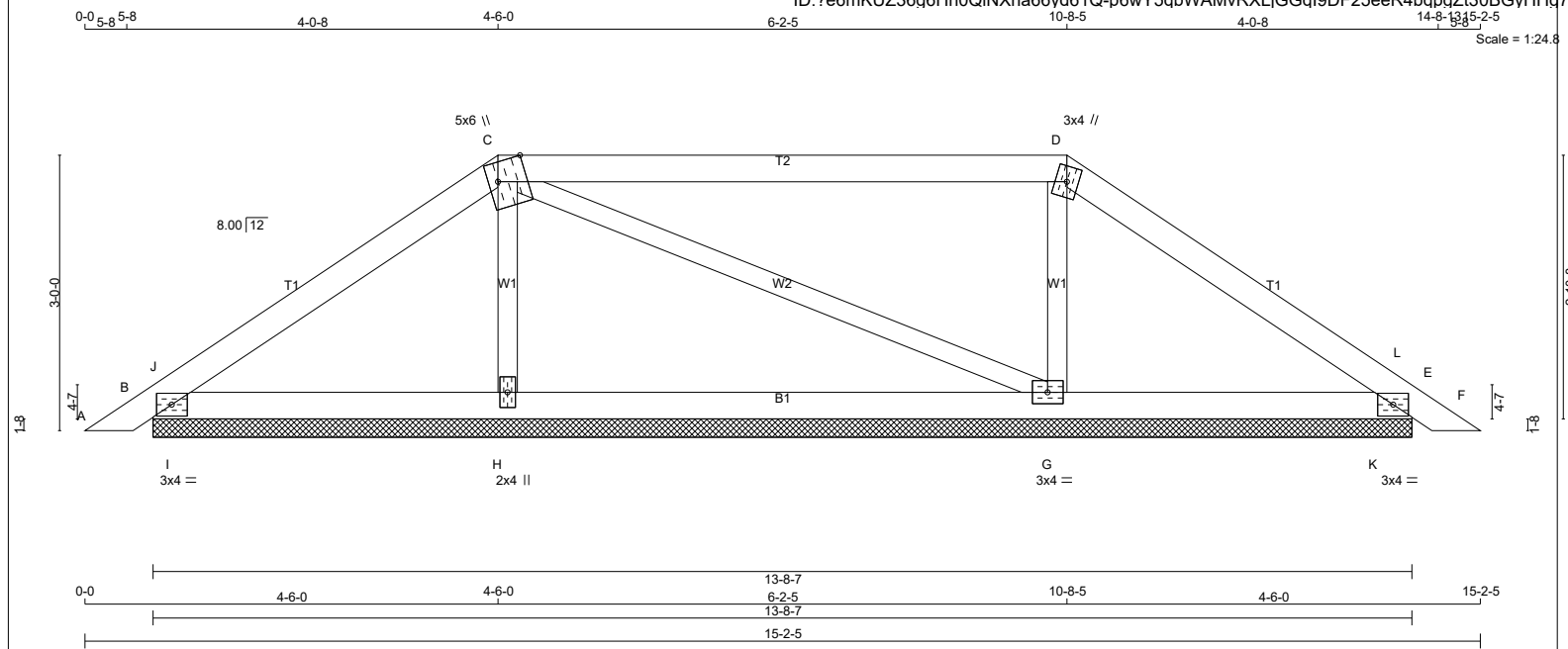




LUMBER					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA				
N. L. G. A. RULES					BEARINGS										SPECIFIED LOADS:				
CHORDS	SIZE	LUMBER	DESCR.		FACTORED GROSS REACTION			MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG	TOP CH.	LL	=				
A - C	2x4	DRY	No.2	SPF	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	BOT CH.	LL <td>=</td> <td>21.0 PSF</td>	=	21.0 PSF			
C - E	2x4	DRY	No.2	SPF	B	175	0	175	0	0	13-8-7	1-4-7		DL <td>=</td> <td>6.0 PSF</td>	=	6.0 PSF			
E - G	2x4	DRY	No.2	SPF	F	175	0	175	0	0	13-8-7	1-4-7		DL <td>=</td> <td>7.4 PSF</td>	=	7.4 PSF			
B - F	2x4	DRY	No.2	SPF	J	265	0	265	0	0	13-8-7	1-4-7	TOTAL LOAD	=	34.4	PSF			
					I	545	0	545	0	0	13-8-7	1-4-7							
					H	265	0	265	0	0	13-8-7	1-4-7							
ALL WEBS	2x3	DRY	No.2	SPF	UNFACTORED REACTIONS										SPACING = 24.0 IN. C/C				
DRY: SEASONED LUMBER.					1ST LCASE										LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM				
					SNOW										THIS DESIGN COMPLIES WITH:				
					LIVE										- PART 9 OF BCBC 2015				
					PERM.LIVE										- PART 9 OF OBC 2012 (2019 AMENDMENT)				
					WIND										- CSA 086-14				
					DEAD										TPIC 2014				
					SOIL										(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				
					TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .														
					NAIL VALUES														
					MAX MIN MAX MIN MAX MIN														
					TOTAL LOAD CASES: (4)														
					CHORDS														
					MEMB. MAX. FACTORED FORCE (LBS)														
					UNBRACED LENGTH														
					FR-TO														
					A-B														
					B-L														
					L-C														
					C-D														
					D-E														
					E-N														
					N-F														
					F-G														
					B-K														
					K-L														

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	SPF
C - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
B - E	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)				W	LEN	Y	X
JT	TYPE	PLATES					
B	TMB1-l	MT20	3.0	4.0			
C	TTWW+m	MT20	5.0	6.0			
D	TTW+m	MT20	3.0	4.0			
E	TMB1-l	MT20	3.0	4.0			
G	BMWVW1-t	MT20	3.0	4.0			
H	BMWV1+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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
B	286	0	286	0	0	13-8-7	2-1-14
E	272	0	272	0	0	13-8-7	2-1-14
H	418	0	418	0	0	13-8-7	2-1-14
G	450	0	450	0	0	13-8-7	2-1-14

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				
MAX. FACTORED		FACTORED			MAX. FACTORED				
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	UNBRAC	MEMB.	FORCE (LBS)	MAX CSI (LC)		
FR-TO		FROM	TO	LENGTH	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	D-J	-313 / 0	0.05 (1)		
C-D	-65 / 0	-78.0	-78.0 0.51 (1)	6.25	I-H	-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 (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

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 BCBC 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 .

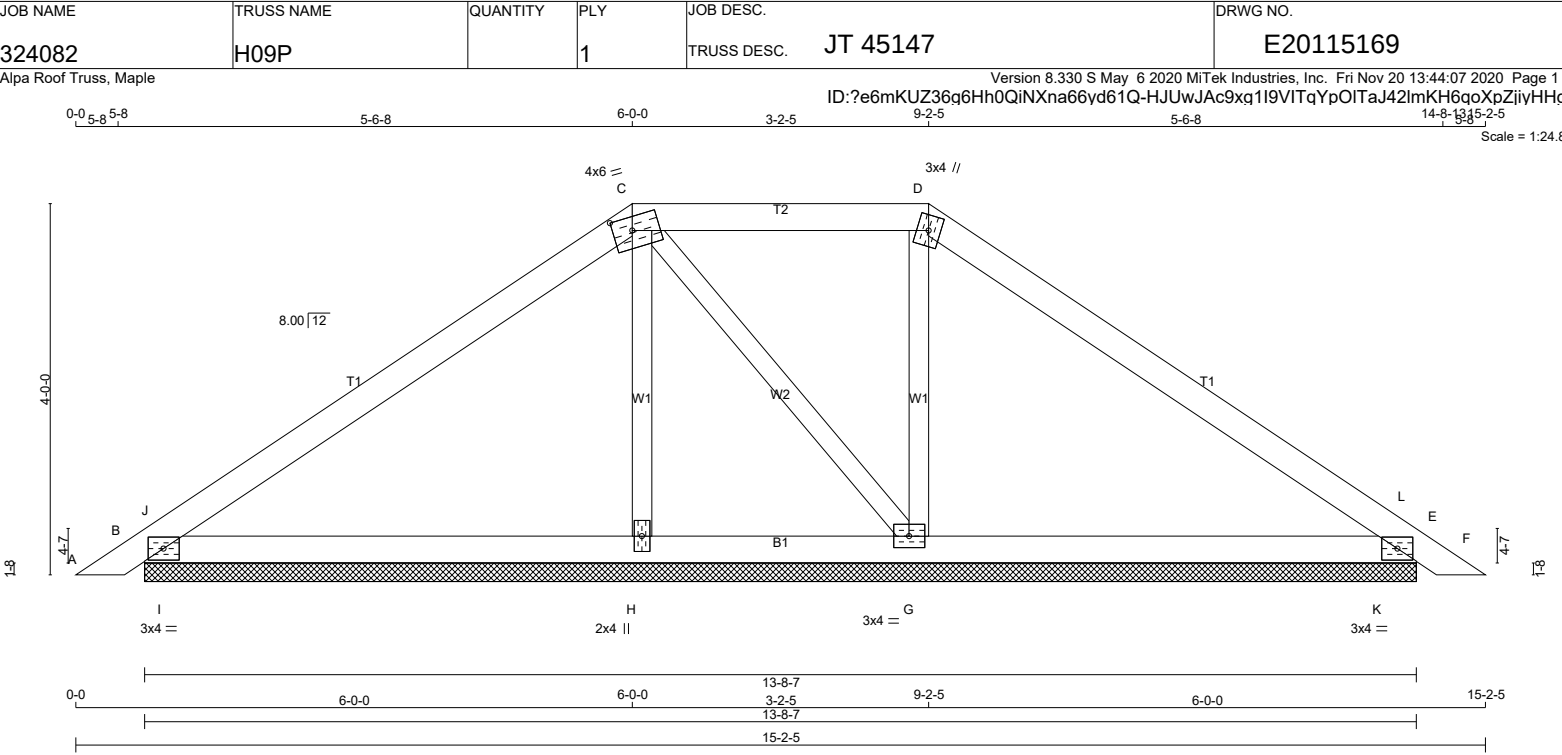
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.44 (D) (INPUT = 0.90)
JSI METAL= 0.06 (H) (INPUT = 1.00)



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 GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG	SPECIFIED LOADS:			
A - C	2x4	DRY	No.2	SPF	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	TOP CH.	LL	=	21.0	PSF	
C - D	2x4	DRY	No.2	SPF	E	401	0	401	0	0	13-8-7	1-4-14	BOT CH. <td>LL<td>=</td><td>6.0</td><td>PSF</td></td>	LL <td>=</td> <td>6.0</td> <td>PSF</td>	=	6.0	PSF	
D - F	2x4	DRY	No.2	SPF	B	380	0	380	0	0	13-8-7	1-4-14		LL <td>=</td> <td>0.0</td> <td>PSF</td>	=	0.0	PSF	
B - E	2x4	DRY	No.2	SPF	H	273	0	273	0	0	13-8-7	1-4-14		LL <td>=</td> <td>7.4</td> <td>PSF</td>	=	7.4	PSF	
ALL WEBS 2x3 DRY: SEASONED LUMBER.				No.2	SPF	G	372	0	372	0	0	13-8-7	1-4-14	TOTAL LOAD	=	34.4	PSF	

PLATES (table is in inches)				UNFACTORED REACTIONS			
JT	TYPE	PLATES	W L E N Y X	1ST LCASE	MAX/MIN. COMPONENT REACTIONS		
B	TMB1-I	MT20	3.0 4.0	COMBINED	SNOW LIVE PERM.LIVE WIND DEAD SOIL		
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				

BMWW1-t	MT20	3.0	4.0	BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, E, H, G										THIS DESIGN COMPLIES WITH: - PART 9 OF CBCB 2018 , ABC 2019 - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014																			
H	BMW1+w	MT20	2.0	4.0	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.										(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																		
														ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.																			
														LOADING TOTAL LOAD CASES: (4)																			
														CHORDS										WEBS									
														MEMB. MAX. FACTORED FORCE (LBS)										MEMB. MAX. FACTORED FORCE (LBS)									
														VERT. LOAD (PLF)										MAX. FACTORED VERT. LOAD (LC)									
														FROM TO										UNBRACED LENGTH									
														FR-TO										FR-TO									
														A- B 0 / 13										H- C -154 / 0									
														B- J -69 / 0										C- G -51 / 0									
														J- C -204 / 0										G- D -214 / 0									
														C- D -124 / 0										I- J -475 / 0									
														D- L -166 / 0										K- L -478 / 0									
														E- E -62 / 8																			
														E- F 0 / 13																			
														B- I 0 / 162																			
														I- H 0 / 162																			
														H- G 0 / 157																			
														G- K 0 / 130																			
														K- F 0 / 130																			

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

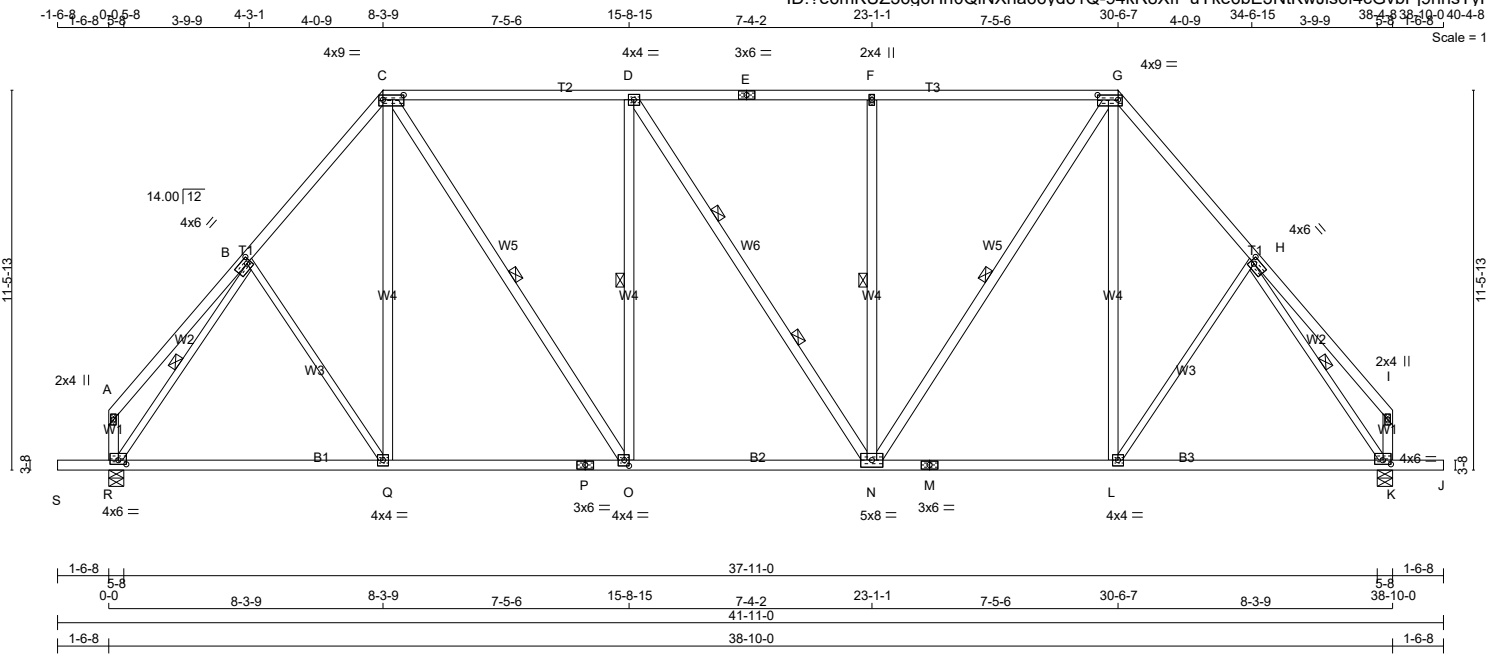
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TOTAL WEIGHT = 40 lb

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





TOTAL WEIGHT = 2 X 224 = 447 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
E - G	2x4	DRY No.2	SPF
G - I	2x4	DRY No.2	SPF
R - A	2x4	DRY No.2	SPF
K - I	2x4	DRY No.2	SPF
S - P	2x4	DRY No.2	SPF
P - M	2x4	DRY No.2	SPF
M - J	2x4	DRY No.2	SPF
ALL WEBS EXCEPT	2x4	DRY No.2	SPF
B - Q	2x3	DRY No.2	SPF
L - H	2x3	DRY No.2	SPF
R - B	2x3	DRY No.2	SPF
H - K	2x3	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	
B	TMWW-t	MT20	4.0	6.0	2.00 1.50
C	TTWW-t	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+w	MT20	2.0	4.0	
G	TTWW-t	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	BMVW1-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	BMVW1-t	MT20	4.0	6.0	1.50 3.00

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
R	2105	0	2105	0	0	5-8	2-4
K	2105	0	2105	0	0	5-8	2-4

UNFACTORED REACTIONS		1ST LCASE		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
R	1508	880 / 0	0 / 0	0 / 0	0 / 0
K	1508	880 / 0	0 / 0	0 / 0	0 / 0

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

BRACING
FOR SECTION C-G, MAX. PURLIN SPACING = 2.00 FT.
FOR OTHER SECTIONS, TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.69 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

- 1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-O, D-O, F-N, G-N, B-R, H-K.
- 2 LATERAL BRACE(S) AT 1/3 LENGTH OF D-N.

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

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD LC1 (LC)	MAX. VERT. LOAD LC1 (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 28	-78.0	-78.0	0.21 (1)	10.00	B-Q	0 / 53
B-C	-1830 / 0	-78.0	-78.0	0.30 (1)	4.69	Q-C	0 / 167
C-D	-1713 / 0	-85.5	-85.5	0.85 (1)	2.00	C-O	0 / 978
D-E	-1712 / 0	-85.5	-85.5	0.84 (1)	2.00	O-D	-685 / 0
E-F	-1712 / 0	-85.5	-85.5	0.84 (1)	2.00	D-N	-1 / 0
F-G	-1712 / 0	-85.5	-85.5	0.84 (1)	2.00	N-F	-684 / 0
G-H	-1830 / 0	-78.0	-78.0	0.30 (1)	4.69	H-G	0 / 977
H-I	0 / 28	-78.0	-78.0	0.21 (1)	10.00	L-G	0 / 167
R-A	-123 / 0	0.0	0.0	0.01 (1)	7.81	L-H	0 / 53
K-I	-123 / 0	0.0	0.0	0.01 (1)	7.81	R-B	-1230 / 0

F-U	0 / 1170	-18.5	-18.5	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

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 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.

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 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (1.29")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.19")

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=0.85/1.00 (C-D:1), BC=0.42/1.00 (L-N:4), WB=0.79/1.00 (H-K:1), SSI=0.30/1.00 (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

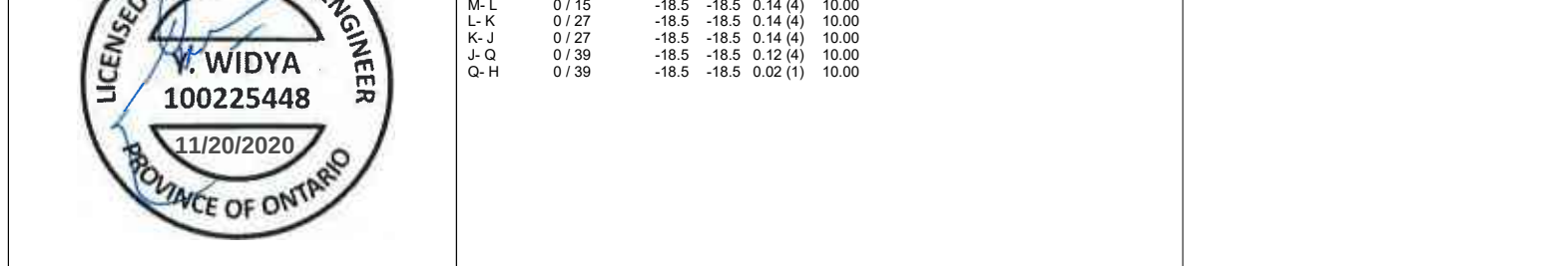
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

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

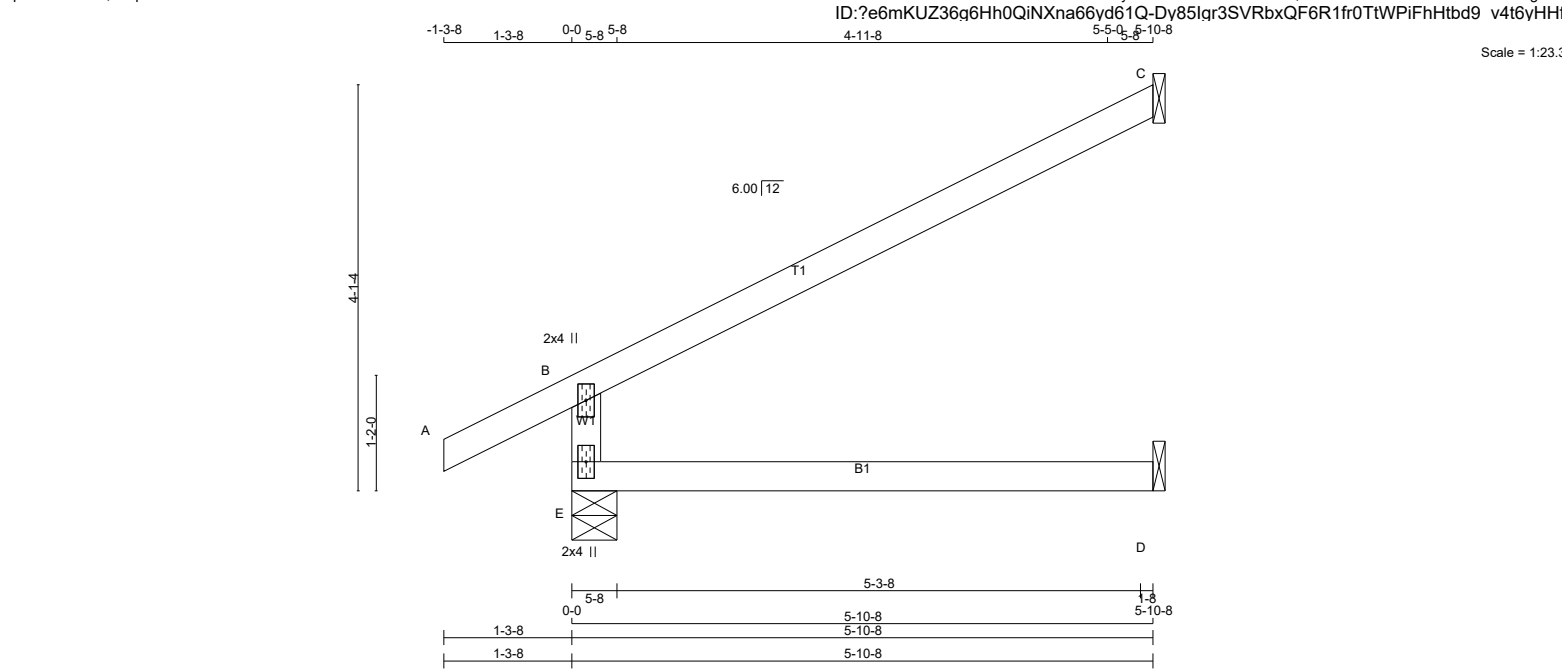




JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324082	J01		1	TRUSS DESC. JT 45147	E20115184

Alpa Roof Truss, Maple

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LUMBER N. L. G. A. RULES CHORDS SIZE DRY LUMBER No.2 E - B 2x4 DRY No.2 A - C 2x4 DRY No.2 E - D 2x4 DRY No.2				DESCR. SPF SPF SPF	TOTAL WEIGHT = 9 X 17 = 151 lb			
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

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

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

UNFACTORED REACTIONS

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

CHORDS				WEBS			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRACED LENGTH	MEMB.	FORCE (LBS)	MAX. LC1 (LC)
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



Scale = 1:22.5

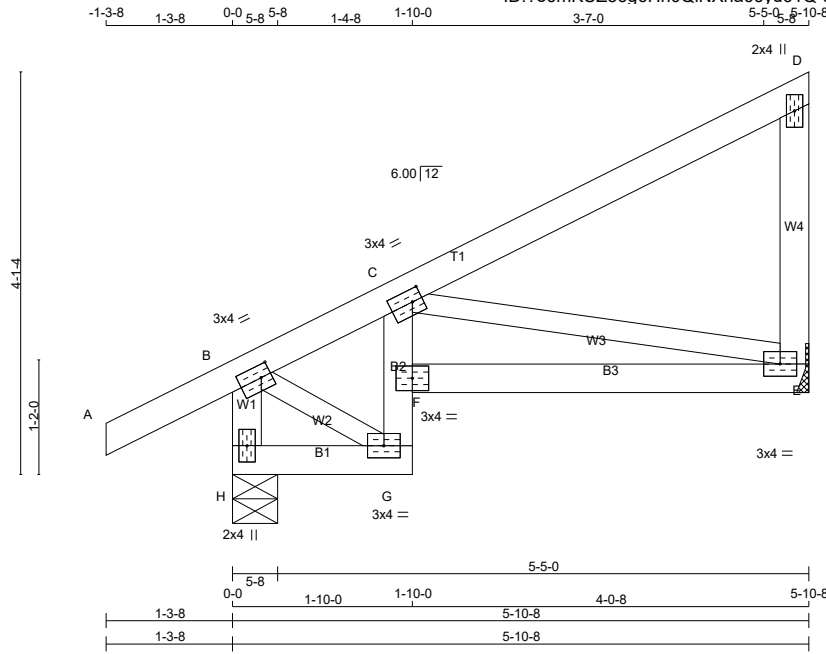


CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324082	J01T		1	TRUSS DESC. JT 45147	E20115186

Alpa Roof Truss, Maple

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ID: ?e6mKUZ36q6Hh0QiNXna66yd61Q-9LFsjLsK 7hJAjOVZShJ6uyx0WxjlmNvdIOAy yHHfn



Scale = 1:23.5

TOTAL WEIGHT = 9 X 26 = 232 lb

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-t	MT20	3.0	4.0	1.50 1.25
C	TMVW-t	MT20	3.0	4.0	1.50 1.25
D	TMV+p	MT20	2.0	4.0	
E	BMVW1-t	MT20	3.0	4.0	
F	BVM-I	MT20	3.0	4.0	
G	BMVW-t	MT20	3.0	4.0	
H	BMV1+p	MT20	2.0	4.0	

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
H	401	0	401	0	0	5-8	1-8		
E	271	0	271	0	0	MECHANICAL			

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS					
H	284	187 / 0	0 / 0	0 / 0	0 / 0	97 / 0	0 / 0
E	194	117 / 0	0 / 0	0 / 0	0 / 0	77 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
H-B	-412 / 0	0.0 0.0 0.03 (1)	7.81	B-G	0 / 244	0.05 (1)	
A-B	0 / 24	-78.0 -78.0 0.10 (1)	10.00	C-E	-386 / 0	0.11 (1)	
B-C	-227 / 0	-78.0 -78.0 0.07 (1)	6.25				
C-D	-52 / 0	-78.0 -78.0 0.13 (1)	6.25				
E-D	-138 / 0	0.0 0.0 0.12 (1)	7.81				
H-G	-29 / 3	-18.5 -18.5 0.06 (1)	6.25				
G-F	-68 / 0	0.0 0.0 0.16 (1)	7.81				
F-C	-45 / 33	0.0 0.0 0.14 (1)	7.81				
F-E	0 / 424	-18.5 -18.5 0.13 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

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

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(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= 0.64 (E) (INPUT = 0.90)
JSI METAL= 0.14 (E) (INPUT = 1.00)

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



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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Scale = 1:40.9

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	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

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
D	485	485	5-8	1-8
B	190	190	1-8	1-8
C	41	46	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	DEAD	SOIL
D	346	209 / 0	0 / 0	0 / 0	0 / 0	137 / 0	0 / 0
B	131	102 / 0	0 / 0	0 / 0	0 / 0	29 / 0	0 / 0
C	33	0 / 0	0 / 0	0 / 0	0 / 0	33 / 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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC1)	
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	
	DL	=	21.0 PSF
	DL	=	6.0 PSF
BOT <th>CH.</th> <th>LL</th> <th></th>	CH.	LL	
	DL	=	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

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

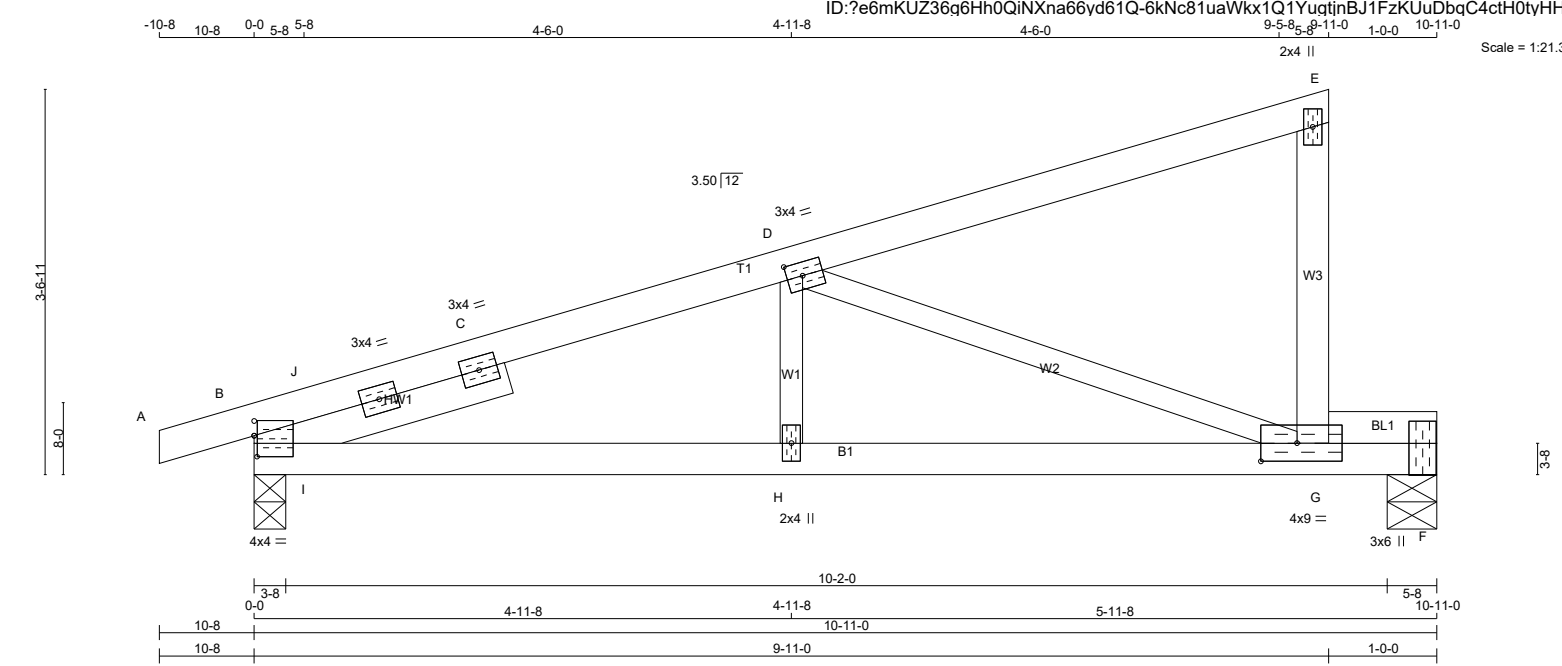
PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX	MIN	MAX	MIN
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.20 (A) (INPUT = 0.90)

JSI METAL= 0.14 (A) (INPUT = 1.00)



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

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

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

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

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

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

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

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

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

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

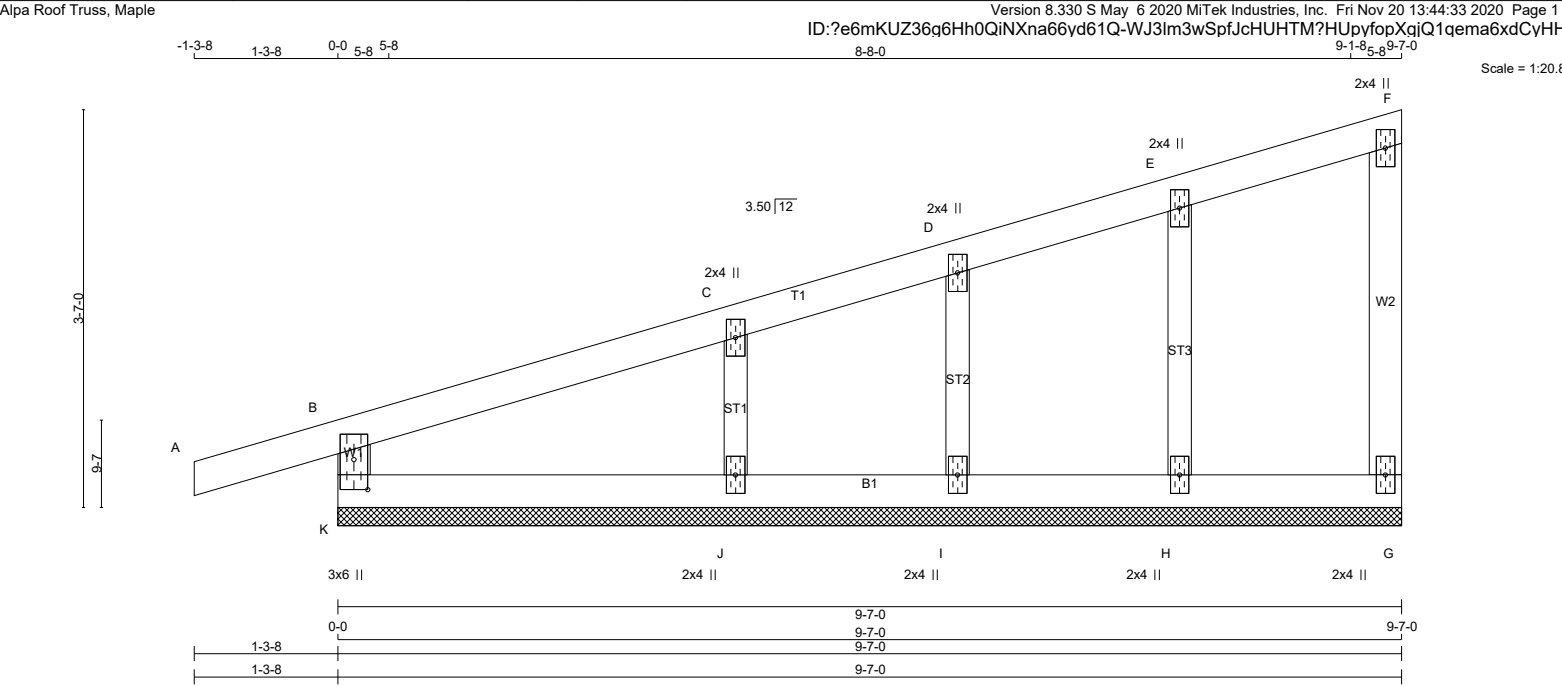
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

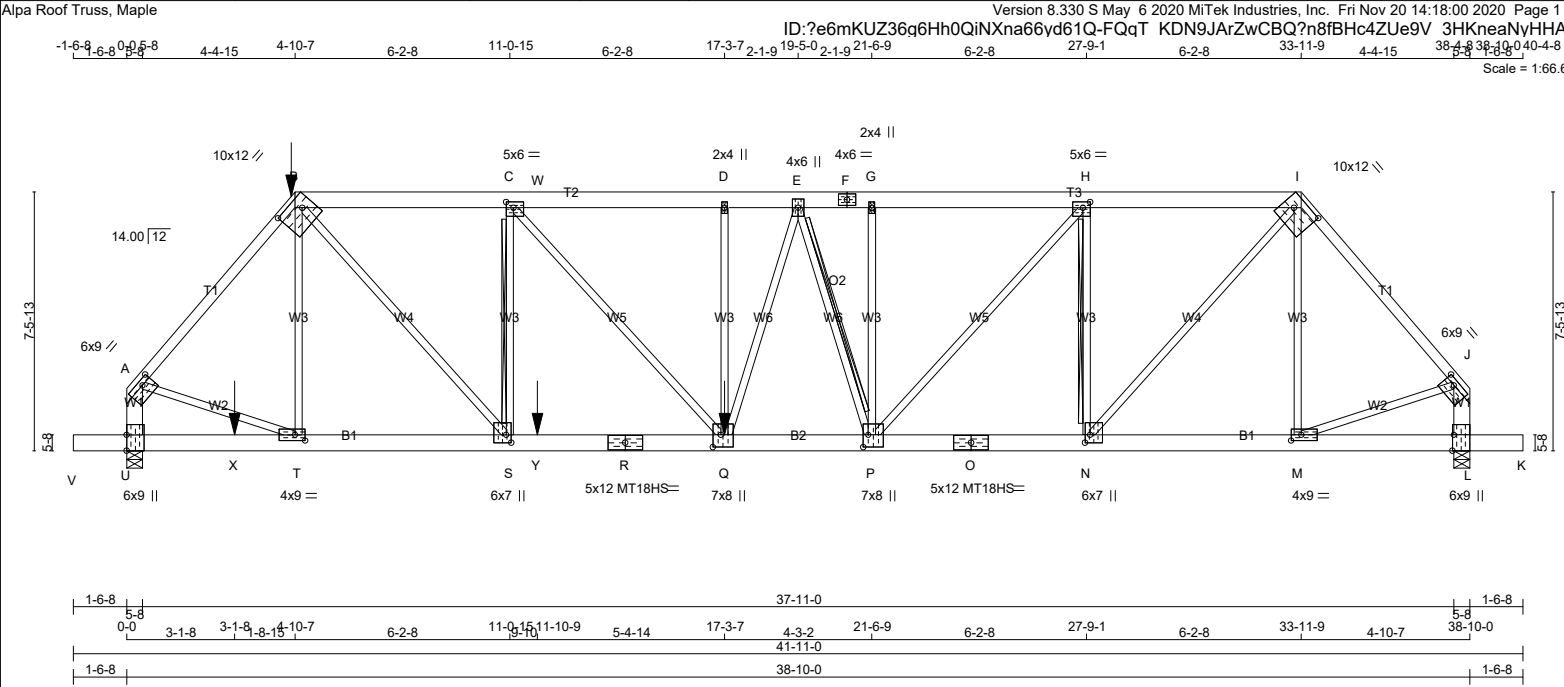
LATERAL BRACE(S) SHOWN SHALL BE 2X4 SPF#2

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



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 2-0-0 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)										DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 21.0 PSF DL = 6.0 PSF BOT CH. LL = 0.0 PSF DL = 7.4 PSF TOTAL LOAD = 34.4 PSF SPACING = 24.0 IN. C/C THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF BCBC 2018 , ABC 2019 - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 DESIGN ASSUMPTIONS -OVERHANG NOT TO BE ALTERED OR CUT OFF. (55 % OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD CSI: TC=0.13/1.00 (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 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.14 (K) (INPUT = 0.90) JSI METAL= 0.06 (C) (INPUT = 1.00)																																																																																																																									
PLATES (table is in inches) JT TYPE PLATES W LEN Y X B C, D, E C TMW+w MT20 2.0 4.0 F TMV+p MT20 2.0 4.0 G BMV1+p MT20 2.0 4.0 H, I, J H BMW1+w MT20 2.0 4.0 K K TMBMV1+p MT20 3.0 6.0 3.25 1.50										<table><tr><th colspan="4">C H O R D S</th><th colspan="4">W E B S</th></tr><tr><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>FACTORED VERT. LOAD (PLF)</th><th>LC1 MAX CSI (LC)</th><th>MAX. UNBRAC LENGTH</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>MAX CSI (LC)</th></tr><tr><td>FR-TO</td><td></td><td>FROM TO</td><td></td><td></td><td>FR-TO</td><td></td><td></td></tr><tr><td>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>										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			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													
C H O R D S				W E B S																																																																																																																																									
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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.
324085	H12B		1	TRUSS DESC. JT 45147	E20115205

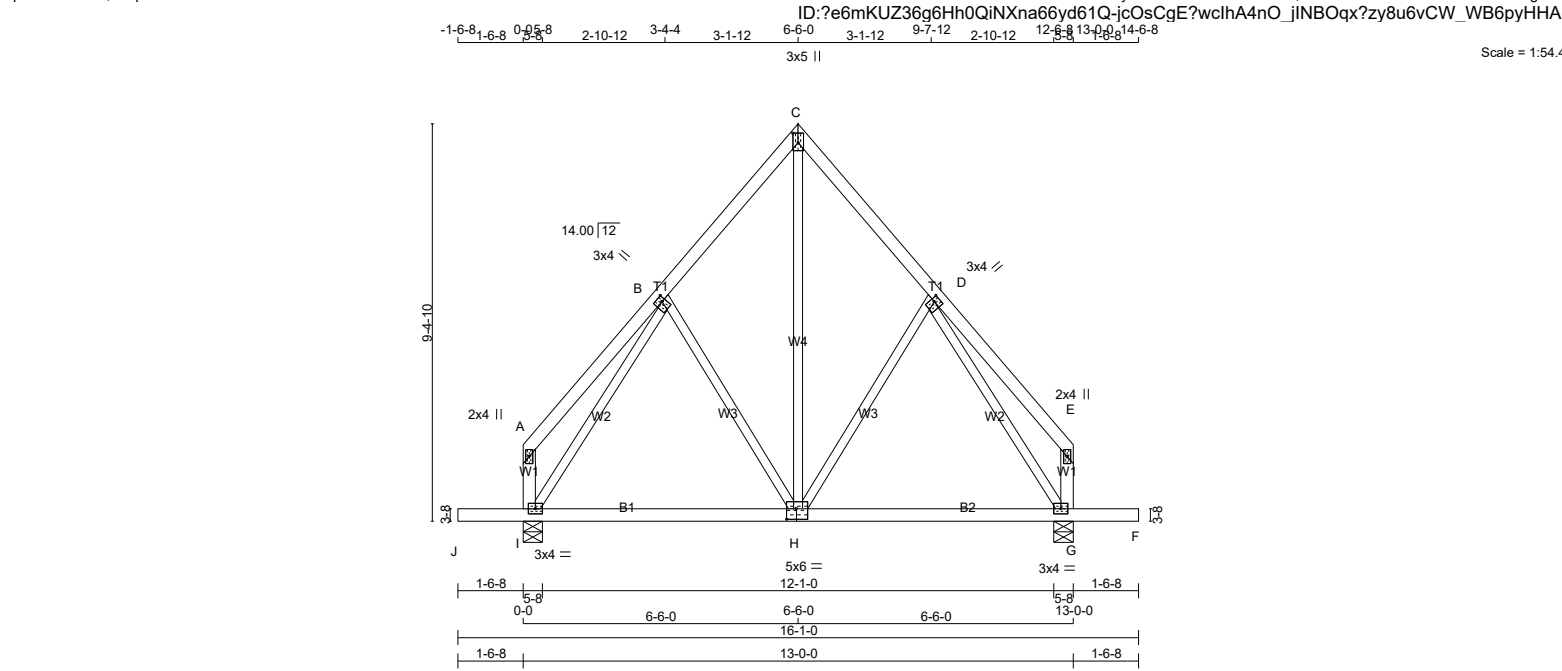


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324085	H21		1	TRUSS DESC. JT 45147	E20115206

Alpa Roof Truss, Maple

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ID:?e6mKUZ36g6Hh0QinXna66yd61Q-jcOsCgE?wclhA4nO_jlNBOqx?zy8u6vCW_WB6pyHHAK



LUMBER

ALL WEBS EXCEPT

DRY: SEASONED LUMBER.

TOTAL WEIGHT = 71 lb

N. L. G. A. RULES				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER			
CHORDS	SIZE	LUMBER	DESCR.	BEARINGS			
A - C	2x4	DRY	No.2	FACTORED	MAXIMUM FACTORED	INPUT	REQRD
C - E	2x4	DRY	No.2	GROSS REACTION	GROSS REACTION	BRG	BRG
I - A	2x4	DRY	No.2	JT VERT	DOWN	IN-SX	IN-SX
G - E	2x4	DRY	No.2	I 776	0	5-8	1-8
J - H	2x4	DRY	No.2	G 776	0	5-8	1-8
H - F	2x4	DRY	No.2				

UNFACTORED REACTIONS			
1ST LCASE	MAX./MIN. COMPONENT REACTIONS		
JT COMBINED	SNOW	LIVE	PERM.LIVE
I 553	338 / 0	0 / 0	0 / 0
G 553	338 / 0	0 / 0	0 / 0

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

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS1 (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 22	-78.0	-78.0 0.13 (1)	10.00	H-C	0 / 327	0.07 (1)
B-C	-370 / 0	-78.0	-78.0 0.10 (1)	6.25	H-D	-122 / 0	0.08 (1)
C-D	-368 / 0	-78.0	-78.0 0.10 (1)	6.25	B-H	-123 / 0	0.08 (1)
D-E	0 / 22	-78.0	-78.0 0.13 (1)	10.00	I-B	-555 / 0	0.35 (1)
I-A	-95 / 0	0.0	0.0 0.01 (1)	7.81	D-G	-555 / 0	0.35 (1)
G-E	-95 / 0	0.0	0.0 0.01 (1)	7.81			

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS1 (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 22	-78.0	-78.0 0.13 (1)	10.00	H-C	0 / 327	0.07 (1)
B-C	-370 / 0	-78.0	-78.0 0.10 (1)	6.25	H-D	-122 / 0	0.08 (1)
C-D	-368 / 0	-78.0	-78.0 0.10 (1)	6.25	B-H	-123 / 0	0.08 (1)
D-E	0 / 22	-78.0	-78.0 0.13 (1)	10.00	I-B	-555 / 0	0.35 (1)
I-A	-95 / 0	0.0	0.0 0.01 (1)	7.81	D-G	-555 / 0	0.35 (1)
G-E	-95 / 0	0.0	0.0 0.01 (1)	7.81			

J-I 0 / 0 -96.5 -96.5 0.16 (1) 10.00

I-H 0 / 292 -18.5 -18.5 0.25 (4) 10.00

H-G 0 / 292 -18.5 -18.5 0.26 (4) 10.00

G-F 0 / 0 -96.5 -96.5 0.16 (1) 10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 21.0 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 34.4 PSF

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBCS 2018 , ABC 2019

- PART 9 OF CBC 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 (0.09")

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=0.13/1.00 (D-E:1), BC=0.26/1.00 (G-H:4), WB=0.35/1.00 (B-I:1), SSI=0.12/1.00 (I-J: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

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= 0.75 (B) (INPUT = 0.90)

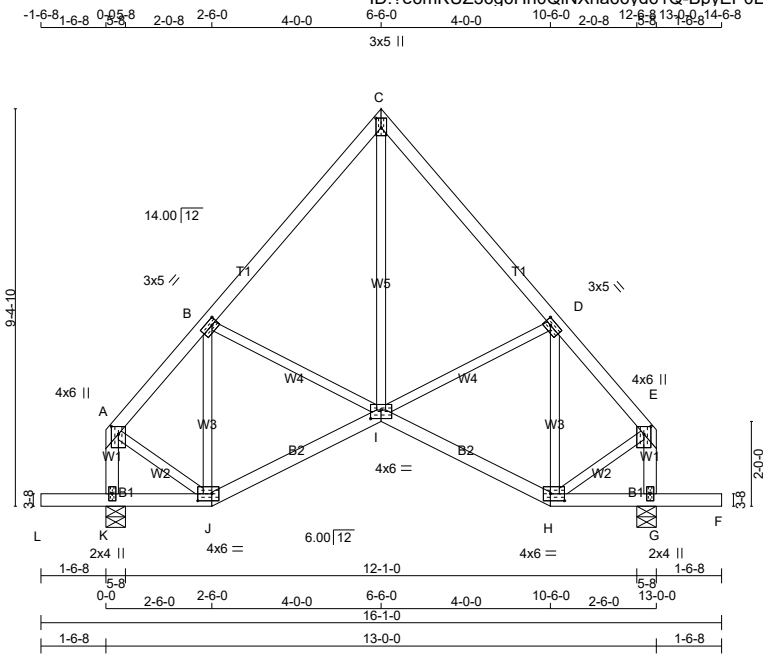
JSI METAL= 0.34 (B) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324085	H21T		1	TRUSS DESC. JT 45147	E20115207

Alpa Roof Truss, Maple

ID: ?e6mKUZ36g6Hh0QiNXna66yvd61Q-BpyEP0EehwQYoEMaYQpckcM6PNJxddEMkdGkeFyHHAJ

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TOTAL WEIGHT = 2 X 69 = 139 lb

[M][F]

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

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	TMWW-t	MT20	3.0	5.0 1.50 1.75
C	TTW+p	MT20	3.0	5.0 2.75 1.50
D	TMWW-t	MT20	3.0	5.0 1.50 1.75
E	TMVW+p	MT20	4.0	6.0 2.25 2.00
G	BMV1+p	MT20	2.0	4.0
H	BBWW-I	MT20	4.0	6.0 2.00 4.00
I	BBWWW-p	MT20	4.0	6.0 2.50 3.00
J	BBWW-I	MT20	4.0	6.0 2.00 4.00
K	BMV1+p	MT20	2.0	4.0

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
K	776	0	776	0	0	5-8	1-8		
G	776	0	776	0	0	5-8	1-8		

UNFACTORED REACTIONS		1ST LCASE		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
K	553	338 / 0	0 / 0	0 / 0	0 / 0
G	553	338 / 0	0 / 0	0 / 0	0 / 0

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

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

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

LOADING		TOTAL LOAD CASES: (4)	
CHORDS		MEMB.	
MAX. FACTORED		FORCE	
MEMB.		VERT. LOAD LC1	
FR-TO		FROM TO	
A-B	-458 / 0	-78.0	-78.0 0.13 (1)
B-C	-469 / 0	-78.0	-78.0 0.15 (1)
C-D	-469 / 0	-78.0	-78.0 0.15 (1)
D-E	-458 / 0	-78.0	-78.0 0.13 (1)
K-A	-604 / 0	0.0	0.0 0.07 (1)
G-E	-604 / 0	0.0	0.0 0.07 (1)
L-K	0 / 0	-96.5	-96.5 0.16 (1)
K-J	0 / 0	-18.5	-18.5 0.03 (4)
J-I	0 / 353	-18.5	-18.5 0.12 (4)
I-H	0 / 353	-18.5	-18.5 0.12 (4)
H-G	0 / 0	-18.5	-18.5 0.03 (4)
G-F	0 / 0	-96.5	-96.5 0.16 (1)

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.43")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

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

CSI: TC=0.15/1.00 (B-C:1) , BC=0.16/1.00 (F-G:1) , WB=0.09/1.00 (C-I:1) , SSI=0.12/1.00 (K-L:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

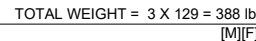
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.59 (I) (INPUT = 0.90)
JSI METAL= 0.18 (A) (INPUT = 1.00)

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



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DRY: SEASONED LUMBER.

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

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
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 / 29	-78.0	-78.0	0.22 (1)	10.00	B-K	-135 / 0	0.16 (1)	
B-C	-811 / 0	-78.0	-78.0	0.18 (1)	6.25	K-C	0 / 246	0.04 (1)	
C-N	-510 / 0	-85.5	-85.5	0.40 (1)	2.00	K-D	0 / 0	0.00 (1)	
N-D	-510 / 0	-85.5	-85.5	0.40 (1)	2.00	I-D	0 / 246	0.04 (1)	
D-E	-811 / 0	-78.0	-78.0	0.18 (1)	6.25	I-E	-135 / 0	0.16 (1)	
E-F	0 / 29	-78.0	-78.0	0.22 (1)	10.00	L-B	-1061 / 0	0.39 (1)	
L-A	-121 / 0	0.0	0.0	0.01 (1)	7.81	E-H	-1061 / 0	0.39 (1)	
H-F	-121 / 0	0.0	0.0	0.01 (1)	7.81				
M-L	0 / 0	-96.5	-96.5	0.16 (1)	10.00				
L-K	0 / 584	-18.5	-18.5	0.33 (4)	10.00				

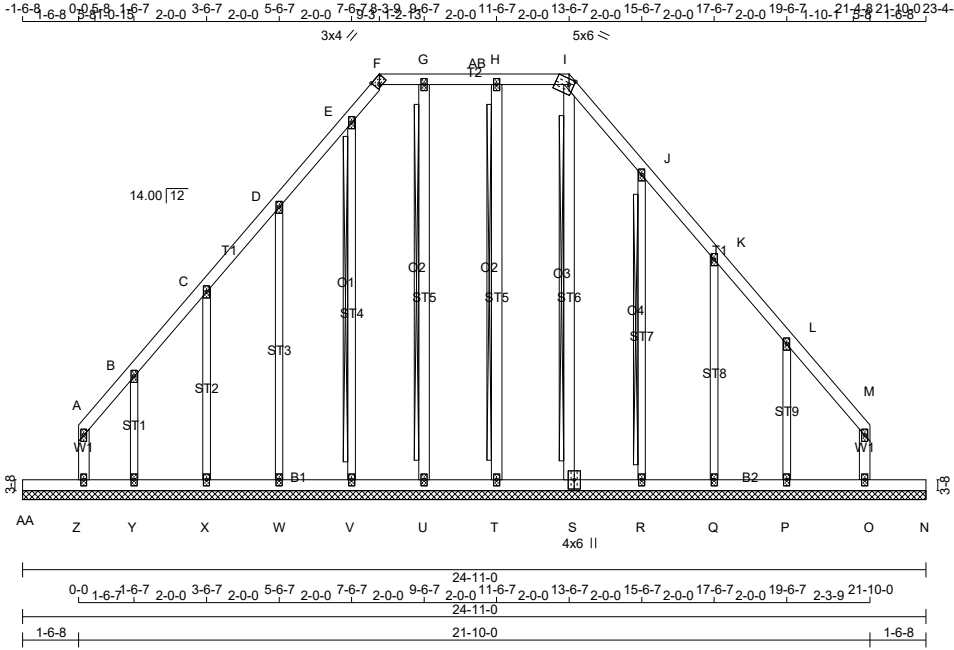
JSI GRIP= 0.81 (B) (INPUT = 0.90)
JSI METAL= 0.37 (B) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324085	H22G		1	TRUSS DESC. JT 45147	E20115209

Alpa Roof Truss, Maple

ID: ?e6mKUZ36g6Hh0QiNXna66vd61Q-8B4 qhGuDXqG2YWyfrs4p1SueA1Q5V fCxlri8yHHAH

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TOTAL WEIGHT = 141 lb

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
A - F	2x4	DRY	No.2	SPF
F - I	2x4	DRY	No.2	SPF
I - M	2x4	DRY	No.2	SPF
Z - A	2x4	DRY	No.2	SPF
O - M	2x4	DRY	No.2	SPF
AA - S	2x4	DRY	No.2	SPF
S - N	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
S - I	2x4	DRY	No.2	SPF
T - H	2x4	DRY	No.2	SPF
U - G	2x4	DRY	No.2	SPF
ALL GABLE WEBS EXCEPT	2x3	DRY	No.2	SPF
ST2	2x4	DRY	No.2	SPF
ST3	2x4	DRY	No.2	SPF
ST4	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2'-0.0 OC.

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
A - TMV+p	MT20	2.0	4.0	
B, C, D, E, G, H, J, K, L	MT20	2.0	4.0	
F - TT-h	MT20	3.0	4.0	Edge 1.25
I - TTW-m	MT20	5.0	6.0	Edge 1.50
M - TMV+p	MT20	2.0	4.0	
O - BMV1+p	MT20	2.0	4.0	
P, Q, R, T, U, V, W, X, Y	MT20	2.0	4.0	
P - BMW1+w	MT20	2.0	4.0	
Z - BSW1+l	MT20	4.0	6.0	
S - BMV1+p	MT20	2.0	4.0	

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

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

FOR SECTION F-I, MAX. PURLIN SPACING = 2.00 FT.

FOR OTHER SECTIONS, 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.

2x4 DRY SPF No.2 T-BRACE AT I-S, H-T, G-U, E-V, J-R

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)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	-48 / 0	-78.0 -78.0	0.03 (1)	6.25	S-I	-152 / 0	0.14 (1)
B-C	-36 / 0	-78.0 -78.0	0.04 (1)	6.25	T-H	-168 / 0	0.16 (1)
C-D	-35 / 0	-78.0 -78.0	0.04 (1)	6.25	U-G	-168 / 0	0.16 (1)
D-E	-33 / 0	-78.0 -78.0	0.04 (1)	6.25	V-E	-144 / 0	0.13 (1)
E-F	-57 / 0	-78.0 -78.0	0.03 (1)	6.25	W-D	-155 / 0	0.20 (1)
F-G	-18 / 0	-85.5 -85.5	0.04 (1)	2.00	X-C	-157 / 0	0.08 (1)
G-AB	-19 / 0	-85.5 -85.5	0.04 (1)	2.00	Y-B	-122 / 0	0.03 (1)
AB-H	-19 / 0	-85.5 -85.5	0.04 (1)	2.00	R-J	-156 / 0	0.10 (1)
H-I	-19 / 0	-85.5 -85.5	0.04 (1)	2.00	Q-K	-150 / 0	0.12 (1)
I-J	-25 / 0	-78.0 -78.0	0.04 (1)	6.25	P-L	-162 / 0	0.05 (1)
J-K	-29 / 0	-78.0 -78.0	0.04 (1)	6.25			
K-L	-35 / 0	-78.0 -78.0	0.04 (1)	6.25			
L-M	-39 / 0	-78.0 -78.0	0.04 (1)	6.25			
Z-A	-93 / 0	0.0 0.0	0.03 (1)	7.81			
O-M	-114 / 0	0.0 0.0	0.04 (1)	7.81			

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 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.

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=0.04/1.00 (I-J:1) , BC=0.03/1.00 (Y-Z:1) , WB=0.20/1.00 (D-W:1) , SSI=0.07/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.55 (F) (INPUT = 0.90)

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

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



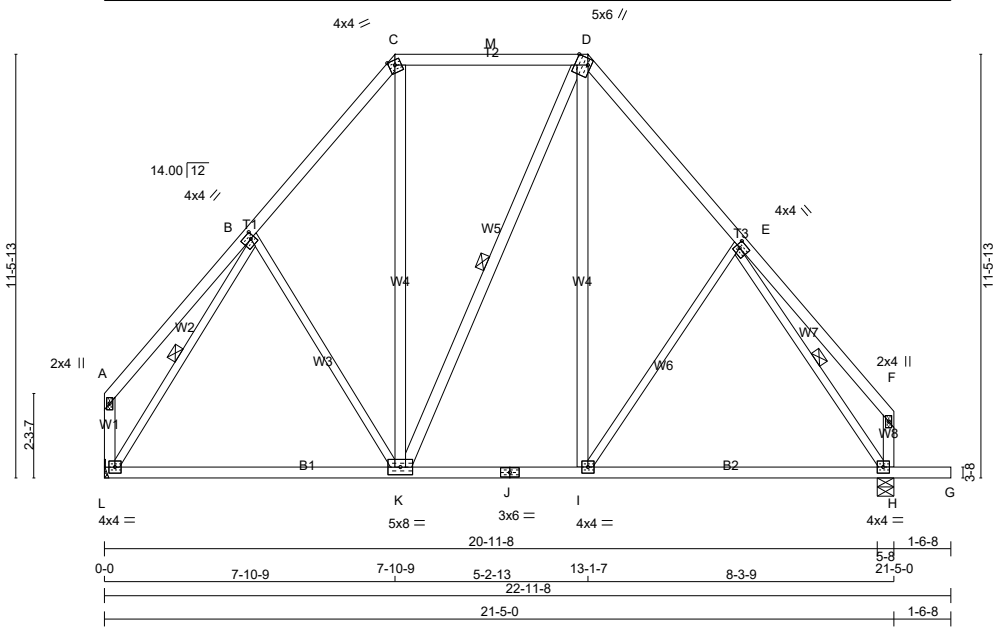
A-W	0 / 23	-10.3	-10.3	0.02 (4)	10.00
W-V	0 / 20	-18.5	-18.5	0.02 (4)	10.00
V-U	0 / 19	-18.5	-18.5	0.02 (4)	10.00
U-T	0 / 19	-18.5	-18.5	0.02 (4)	10.00
T-S	0 / 19	-18.5	-18.5	0.02 (4)	10.00
S-R	0 / 17	-18.5	-18.5	0.02 (4)	10.00
R-Q	0 / 19	-18.5	-18.5	0.02 (4)	10.00
Q-P	0 / 22	-18.5	-18.5	0.02 (4)	10.00
P-O	0 / 26	-18.5	-18.5	0.02 (4)	10.00
O-N	0 / 0	-18.5	-18.5	0.01 (4)	10.00

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324085	H22S		1	TRUSS DESC. JT 45147	E20115210

Alpa Roof Truss, Maple

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ID:?e6mKUZ36q6Hh0QINXna66yd61Q-cOdM21HW ro7fh59DZNJME ZmaH qvMoRbUPFayHHAG



TOTAL WEIGHT = 2 X 127 = 254 lb

[M][F]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMV+p	MT20	2.0	4.0	
B	TMWW-t	MT20	4.0	4.0	2.00 1.25
C	TTW-m	MT20	4.0	4.0	Edge
D	TTWW+m	MT20	5.0	6.0	Edge 4.00
E	TMWW-t	MT20	4.0	4.0	2.00 1.25
F	TMV+p	MT20	2.0	4.0	
H	BMVW1-t	MT20	4.0	4.0	
I	BMWW-t	MT20	4.0	4.0	
J	BS-t	MT20	3.0	6.0	
K	BMWWW-t	MT20	5.0	8.0	
L	BMVW1-t	MT20	4.0	4.0	

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

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



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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
L	1053	0	1053	0	0
H	1201	0	1201	0	0

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

UNFACTORED REACTIONS		1ST LCASE	MAX./MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
L	753	450 / 0	0 / 0
H	858	514 / 0	0 / 0

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

BRACING
FOR SECTION C-D, MAX. PURLIN SPACING = 2.00 FT.
FOR OTHER SECTIONS, 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 D-K, B-L, E-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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH	FACTORED CSI (LC)
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-78.0	-78.0 0.20 (1)	B-K	-84 / 10	10.00	0.10 (1)
B-C	-771 / 0	-78.0	-78.0 0.16 (1)	K-C	0 / 222	6.25	0.04 (4)
C-M	-484 / 0	-85.5	-85.5 0.40 (1)	K-D	-25 / 0	2.00	0.02 (1)
M-D	-484 / 0	-85.5	-85.5 0.40 (1)	I-D	0 / 251	2.00	0.04 (1)
D-E	-788 / 0	-78.0	-78.0 0.18 (1)	I-E	-138 / 0	6.25	0.16 (1)
E-F	0 / 29	-78.0	-78.0 0.22 (1)	L-B	-1021 / 0	10.00	0.39 (1)
L-A	-115 / 0	0 / 0	0 / 0 0.04 (1)	F-H	-1036 / 0	7.81	0.38 (1)
J-I	0 / 493	-10.3	-10.3 0.30 (4)	I-H	0 / 571	-18.5	-18.5 0.33 (4)
I-H	0 / 571	-18.5	-18.5 0.33 (4)	H-G	0 / 0	-96.5	-96.5 0.16 (1)
H-G	0 / 0	-96.5	-96.5 0.16 (1)				

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.71")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.71")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.16")

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=0.40/1.00 (C-D:1) , BC=0.33/1.00 (H-I:4) , WB=0.39/1.00 (B-L:1) , SSI=0.17/1.00 (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)	SECTION (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= 0.85 (B) (INPUT = 0.90)
JSI METAL= 0.36 (E) (INPUT = 1.00)

Alpa Roof Truss, Maple

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TOTAL WEIGHT = 6 X 14 = 84 lb

DRY: SEASONED LUMBER.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT	REQ'D
	GROSS REACTION		GROSS REACTION			BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
B	234	0	234	0	0	4-2-10	1-8
D	234	0	234	0	0	4-2-10	1-8

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	167	105 / 0	0 / 0	0 / 0	0 / 0	61 / 0	0 / 0
D	167	105 / 0	0 / 0	0 / 0	0 / 0	61 / 0	0 / 0

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

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.

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 / 11	-78.0	-78.0	0.01 (1)	10.00	F- G	0 / 106	
B- G	-198 / 0	-78.0	-78.0	0.04 (4)	6.25	H- I	0 / 106	
G- C	-103 / 0	-78.0	-78.0	0.06 (1)	6.25		0.00 (1)	
C- I	-103 / 0	-78.0	-78.0	0.06 (1)	6.25		0.00 (1)	
I- D	-198 / 0	-78.0	-78.0	0.04 (4)	6.25			
D- E	0 / 11	-78.0	-78.0	0.01 (1)	10.00			
B- F	0 / 70	-18.5	-18.5	0.03 (4)	10.00			
F- H	0 / 70	-18.5	-18.5	0.06 (4)	10.00			
H- D	0 / 70	-18.5	-18.5	0.03 (4)	10.00			

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



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

CSI: TC=0.06/1.00 (C-G:1) , BC=0.06/1.00 (F-H:4) ,
WB=0.00/1.00 (F-G:1) , SSI=0.08/1.00 (D-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)		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.

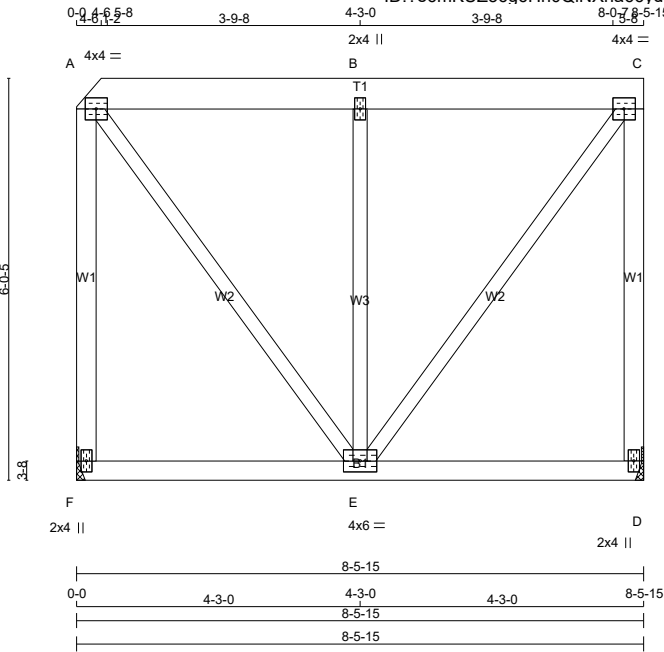
JSI GRIP= 0.22 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324085	H24		1	TRUSS DESC. JT 45147	E20115212

Alpa Roof Truss, Maple

ID:?e6mKUZ36g6Hh0QinXna66yd61Q-Yml7SjlmWS3rv?FXL PnRf4ykO15lse5uvzVKTyHHAE

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TOTAL WEIGHT = 52 lb

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
A - C	2x6	DRY	No.2	SPF
D - C	2x4	DRY	No.2	SPF
F - A	2x4	DRY	No.2	SPF
F - D	2x4	DRY	No.2	SPF
ALL WEBS 2x3 DRY No.2 SPF				
DRY: SEASONED LUMBER.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMVW-t	MT20	4.0	4.0	
B	TMW+w	MT20	2.0	4.0	
C	TMVW-t	MT20	4.0	4.0	
D	BMV1+p	MT20	2.0	4.0	
E	BMWWW-t	MT20	4.0	6.0	
F	BMV1+p	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
	VERT	HORZ	DOWN	HORZ		
JT	410	0	410	0	0	MECHANICAL
D	410	0	410	0	0	MECHANICAL

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

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
JT	292	178 / 0	0 / 0	0 / 0	0 / 0	114 / 0	0 / 0
D	292	178 / 0	0 / 0	0 / 0	0 / 0	114 / 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	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1
FR-TO		FROM TO			FR-TO		
A-B	-185 / 0	-78.0 -78.0	0.10 (1)	6.25	A-E	0 / 308	0.07 (1)
B-C	-185 / 0	-78.0 -78.0	0.10 (1)	6.25	E-B	-398 / 0	0.21 (1)
D-C	-379 / 0	0.0 0.0	0.24 (1)	7.81	E-C	0 / 308	0.07 (1)
F-A	-379 / 0	0.0 0.0	0.24 (1)	7.81			
F-E	0 / 0	-18.5 -18.5	0.09 (4)	10.00			
E-D	0 / 0	-18.5 -18.5	0.09 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.28")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.28")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.24/1.00 (C-D:1), BC=0.09/1.00 (D-E:4), WB=0.21/1.00 (B-E:1), SSI=0.12/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.37 (E) (INPUT = 0.90)
JSI METAL= 0.09 (E) (INPUT = 1.00)

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

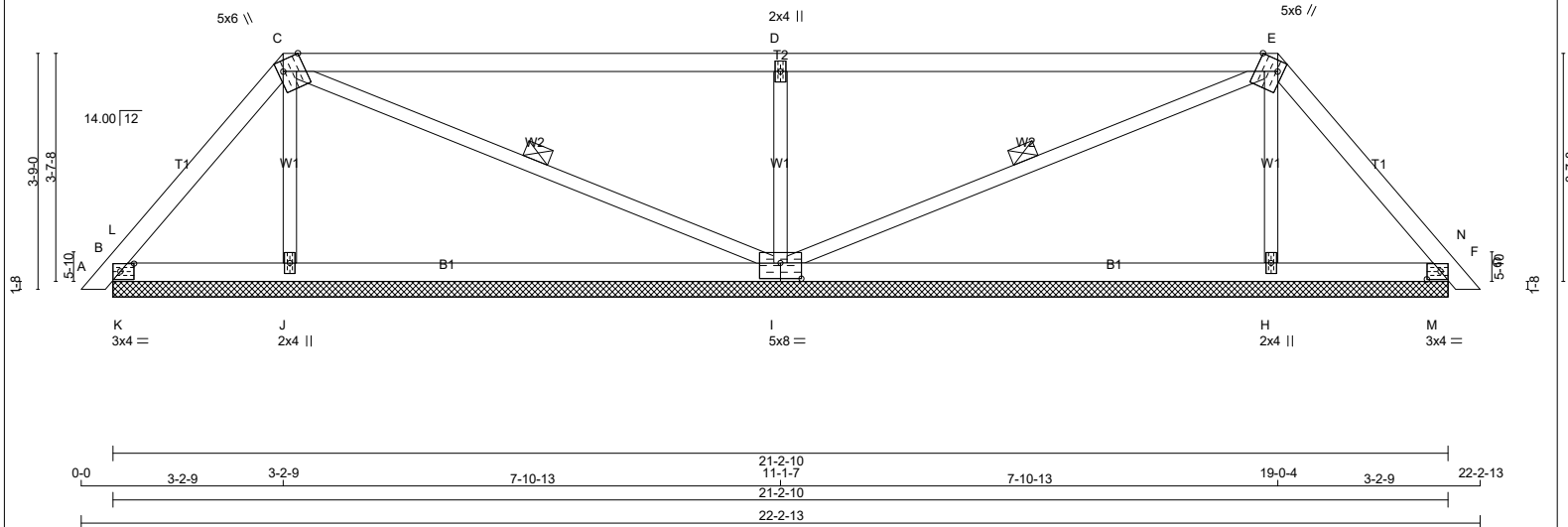


Alpa Roof Truss, Maple

Version 8.330 S May 6 2020 MiTek Industries, Inc. Fri Nov 20 14:23:19 2020 Page 1

ID: ?e6mKUZ36q6Hh0QiNXna66yd61Q-Poc4xP4U1JMaKy5VcV?y4S?7s9TQP b0eSY0GOyHH5M

scale = 1:36.3



TOTAL WEIGHT = 2 X 74 = 148 lb

N. L. G. A. RULES

PLATES (table is in inches)

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

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

J- I	0 / 30	-18.5	-18.5	0.20 (4)	10.00
I- H	0 / 58	-18.5	-18.5	0.26 (4)	10.00
H- M	0 / 65	-18.5	-18.5	0.26 (4)	10.00
M- F	0 / 65	-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

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=0.83/1.00 (C-D:1), BC=0.26/1.00 (H-M:4), WB=0.16/1.00 (D-I:1), SSI=0.30/1.00 (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) (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.

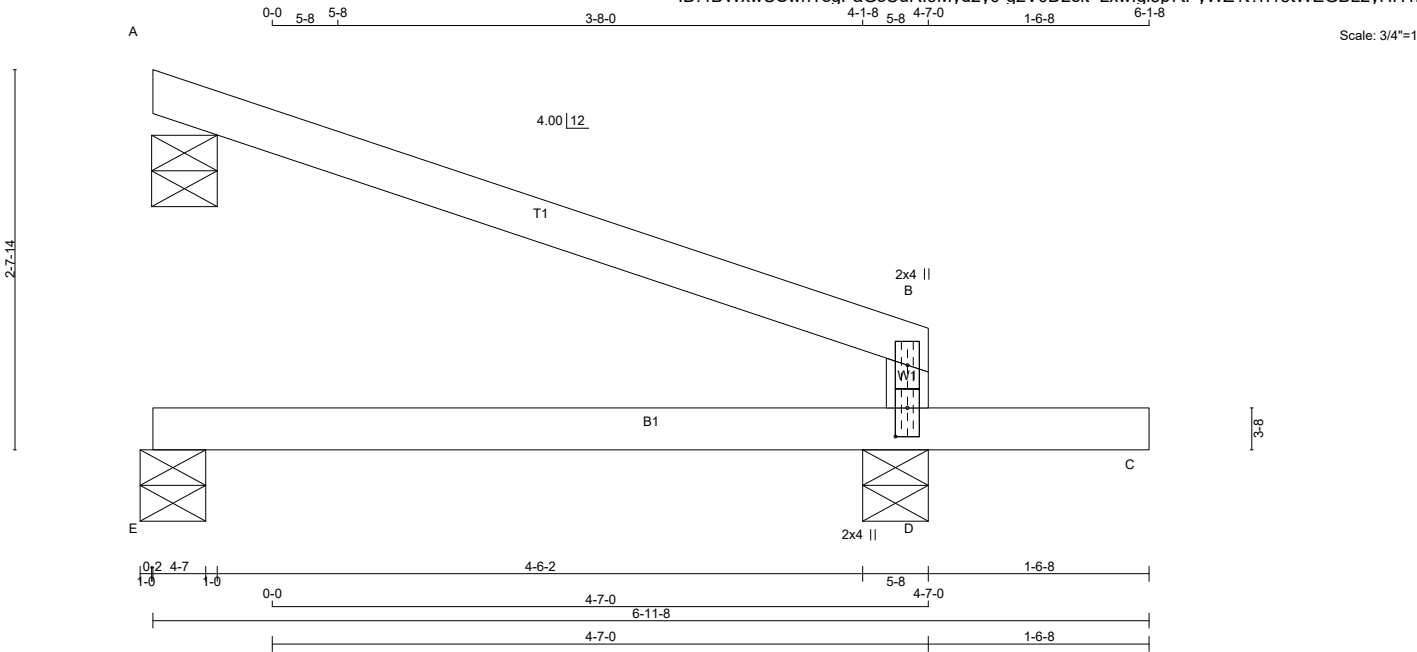
JSI GRIP= 0.55 (C) (INPUT = 0.90)
JSI METAL= 0.40 (I) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
324085	G02		1	TRUSS DESC. JT 45147	E20115214

Alpa Roof Truss, Maple

ID:4DWxwUSwnTsqPaGsUuRi9Myd2y0-q2V0D2slt Lxwlgf5p7tPyWZ1t?r115tWEGBL2yHH1m

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TOTAL WEIGHT = 9 X 15 = 135 lb

LUMBER N. L. G. A. RULES CHORDS SIZE DRY LUMBER No.2 A - B 2x4 DRY No.2 D - B 2x4 DRY No.2 E - C 2x4 DRY No.2 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 BRG REQRD BRG JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX A 170 0 170 0 0 5-8 (5-6) 5-6 E 38 0 42 0 0 5-8 (4-7) 1-8 D 463 0 463 0 0 5-8 1-8 VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): A UNFACTORED REACTIONS 1ST LCASE MAX/MIN COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL A 118 92/0 0/0 0/0 0/0 26/0 0/0 E 30 0/0 0/0 0/0 0/0 30/0 0/0 D 331 200/0 0/0 0/0 0/0 130/0 0/0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) A, E, 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 MAX. FACTORED FORCE VERT. LOAD LC1 MAX. MEMB. MAX. FACTORED FORCE MAX (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC) FR-TO FROM TO A-B -13/0 -78.0 -78.0 0.30 (1) 6.25 D-B -252/0 0.0 0.0 0.30 (1) 7.81 E-D 0/0 -18.5 -18.5 0.16 (4) 10.00 D-C 0/0 -96.5 -96.5 0.16 (1) 10.00				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 21.0 PSF DL = 6.0 PSF BOT CH. LL = 0.0 PSF DL = 7.4 PSF TOTAL LOAD = 34.4 PSF SPACING = 24.0 IN. C/C THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF BCBC 2018, ABC 2019 - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 DESIGN ASSUMPTIONS -OVERHANG NOT TO BE ALTERED OR CUT OFF. (55 % OF 23.0 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 21.0 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(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=0.30/1.00 (B-D:1) , BC=0.16/1.00 (D-E:4) , WB=0.00/1.00 (n/a:0) , SSI=0.19/1.00 (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= 0.13 (B) (INPUT = 0.90) JSI METAL= 0.07 (B) (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:

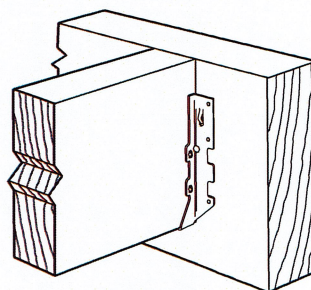
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

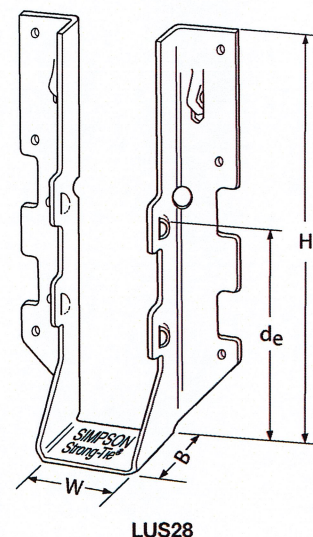
- Use all specified fasteners.
- Nails: 16d = 0.162" dia. x 3½" long common wire, 10d = 0.148" x 3" long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.

Options:

- These hangers cannot be modified



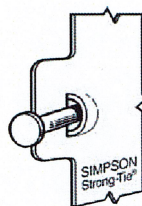
Typical LUS Installation



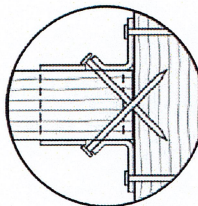
LUS28

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

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

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T-SPECLUS20 3/20 exp. 6/22

(800) 999-5099
strongtie.com

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:

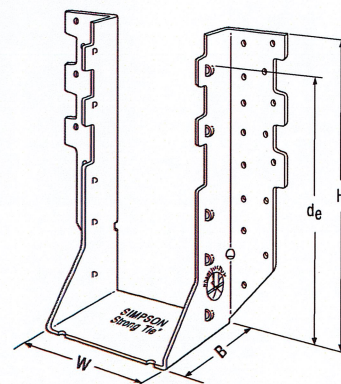
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

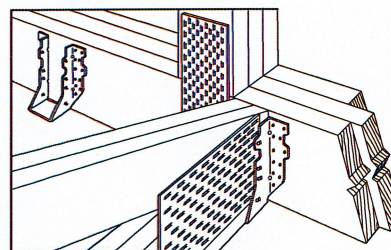
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3½" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

- See current catalogue for options



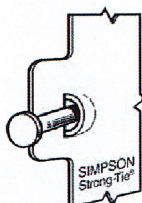
HHUS410



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

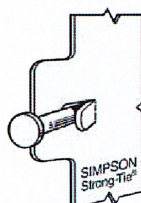
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K ₀ =1.15)	Normal (K ₀ =1.00)	Uplift (K ₀ =1.15)	Normal (K ₀ =1.00)
HHUS26-2	14	3½	5¼	3	3¼	(14) 16d	(6) 16d	2850	7335	2065	5205
HHUS28-2	14	3½	7½	3	6½	(22) 16d	(8) 16d	3765	8940	2675	6345
HHUS210-2	14	3½	9¾	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	3¾	5¼	3	3¼	(14) 16d	(6) 16d	2540	7335	2065	5205
HHUS48	14	3¾	7¼	3	6¼	(22) 16d	(8) 16d	3765	8940	2675	6345
HHUS410	14	3¾	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	3¾	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.

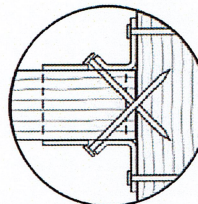


Dome Double Shear Nailing prevents tabs breaking off (available on some models).

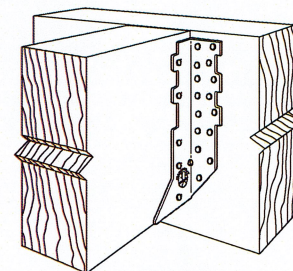
U.S. Patent
5,603,580



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



Double Shear Nailing Top View.



Typical HHUS Installation



LIMIT
STATES
DESIGN

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

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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

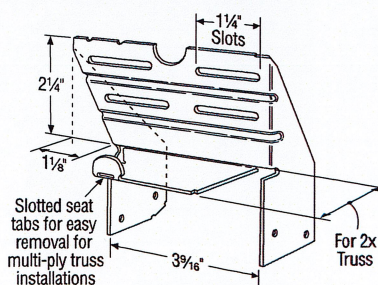
Design: Factored resistances are in accordance with CSA 086-14

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.

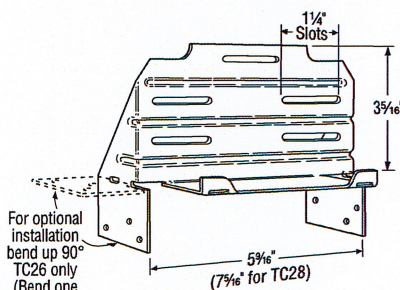
Optional TC Installation:

- 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.



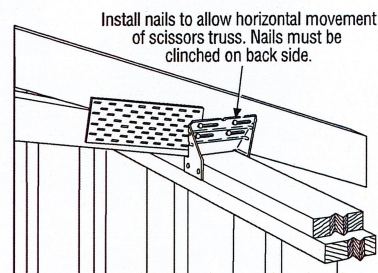
TC24

U.S. Patent 4,932,173

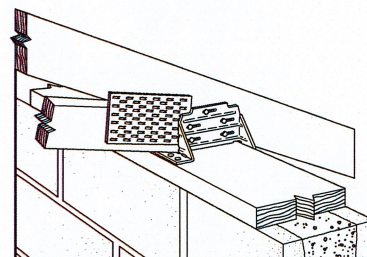


TC26

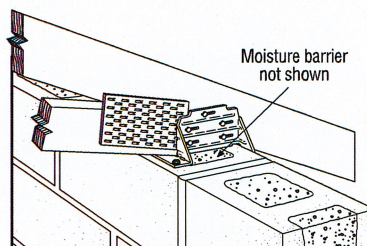
(TC28 Similar)



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.



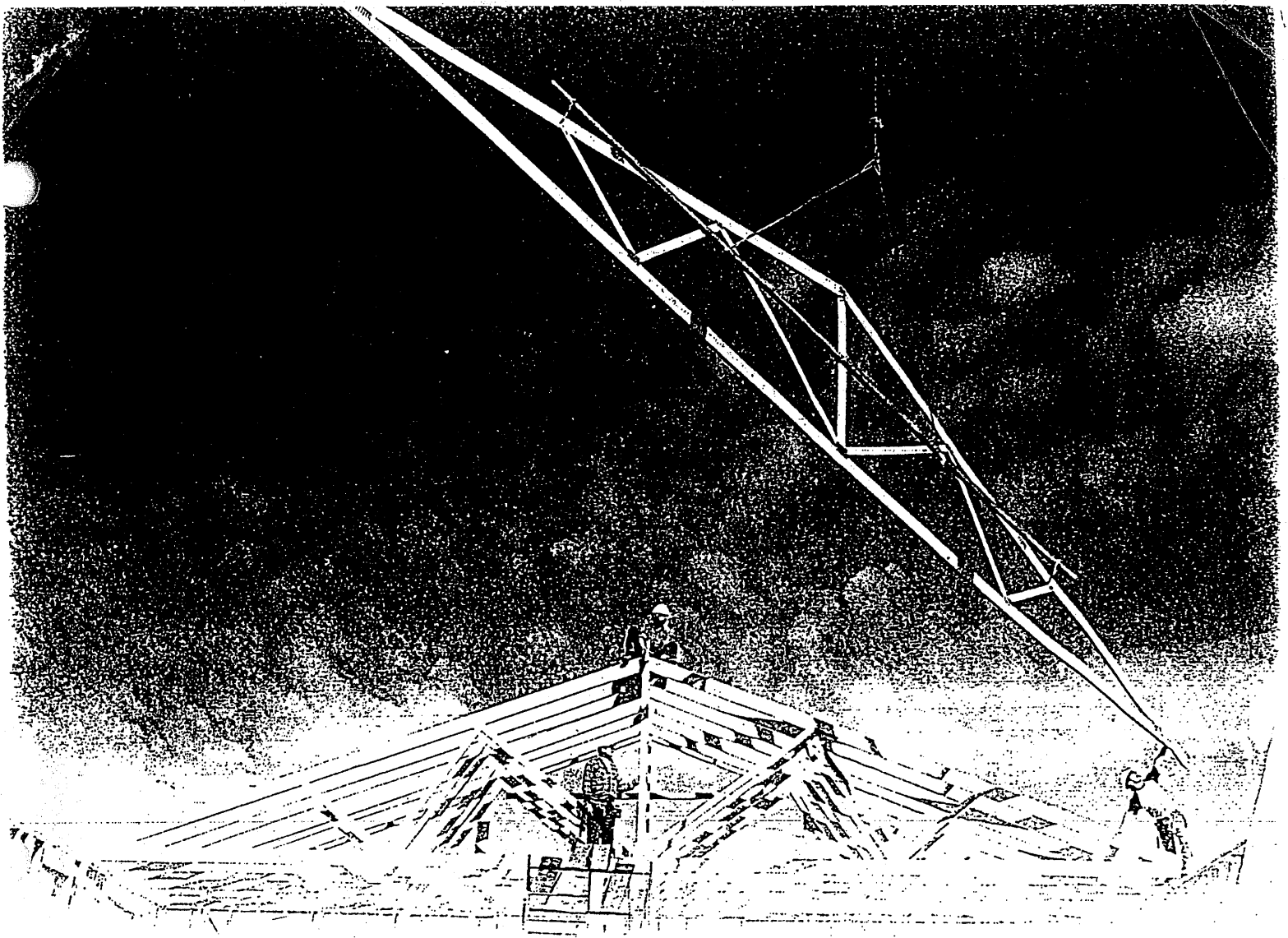
**LIMIT
STATES
DESIGN**

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

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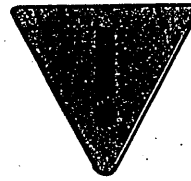
Wood Truss Installation

**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

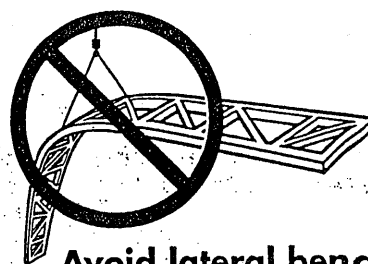
Special design requirements, such as wind bracing, portal bracing, seismic bracing, diaphragms, shear walls, or other load transfer elements and their connections to wood trusses must be considered separately by the building designer, who shall determine size, location, and method of connections for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

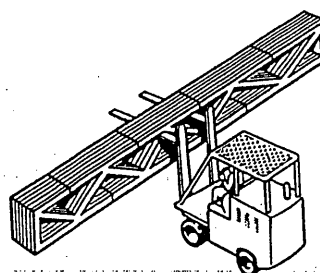
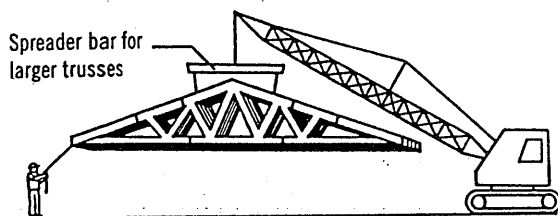


Avoid lateral bending

- 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.

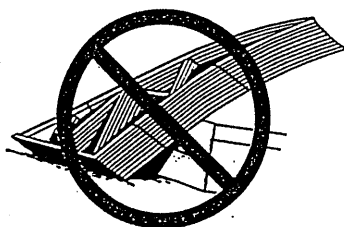
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Job Site Handling



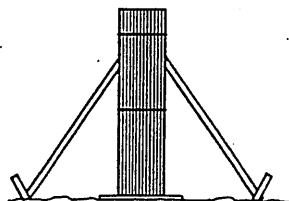
All trusses should be picked up at the top chords in a vertical position only

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.



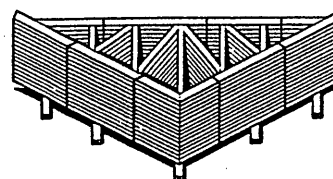
Do not store unbraced bundles upright

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.

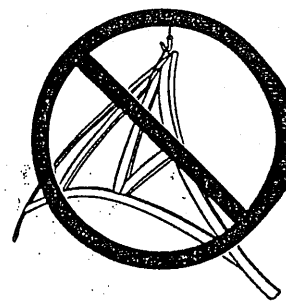


Care should be exercised when removing banding to avoid damaging trusses.

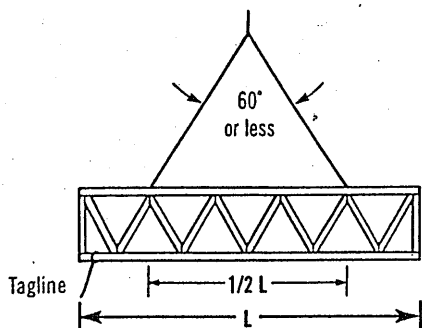
During long term storage, trusses shall be protected from the environment in a manner that provides for adequate ventilation of the trusses. If tarpaulins or other material is used, the ends shall be left open for ventilation. Plastic is not recommended, since it can trap moisture.

3 Hoisting

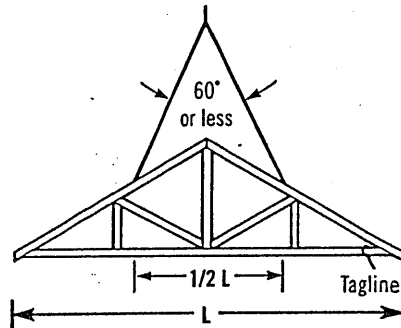
All trusses that are erected one at a time shall be held safely in position by the erection equipment until such time as all necessary bracing has been installed and the ends of the trusses are securely fastened to the building.



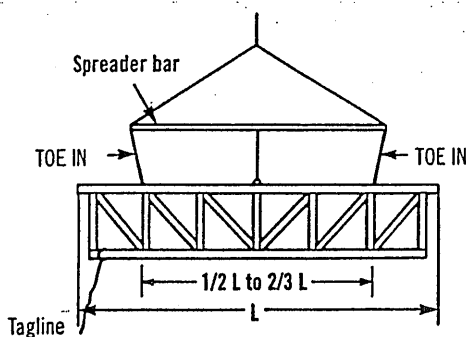
Avoid lateral bending



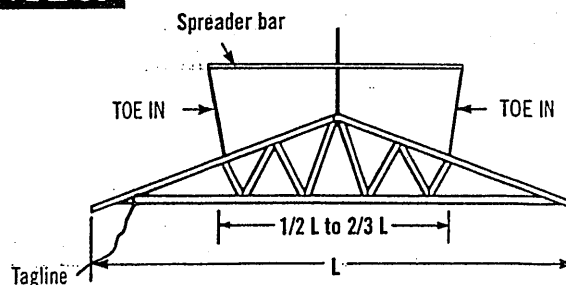
$L \leq 30'$



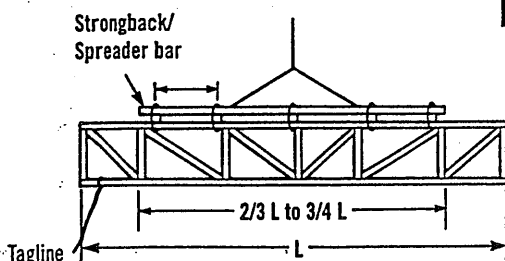
Truss sling is acceptable where these criteria are met.



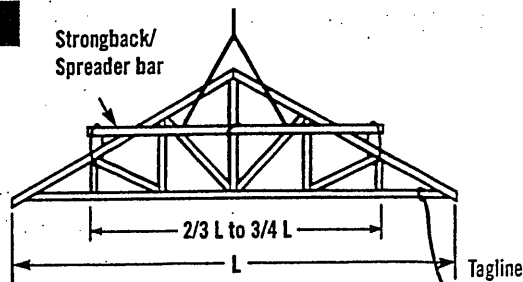
$30' < L \leq 60'$



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.



$L > 60'$



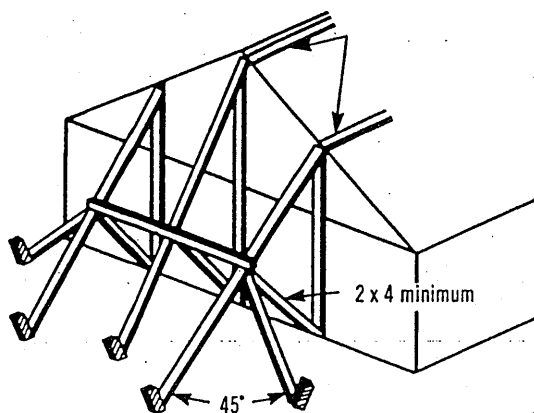
For lifting trusses with spans in excess of 60 feet, it is recommended that a strongback/spreader bar be used as illustrated. The strongback/spreader bar should be attached to the top chord and web members at intervals of approximately 10 feet. Further, the strongback/spreader bar should be at or above 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

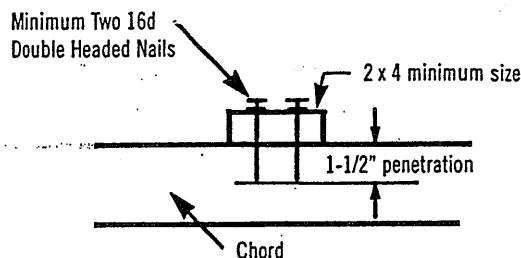
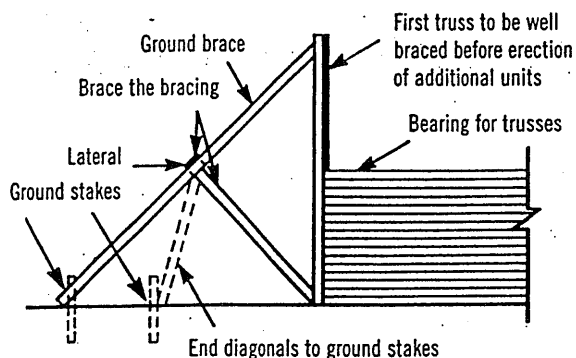
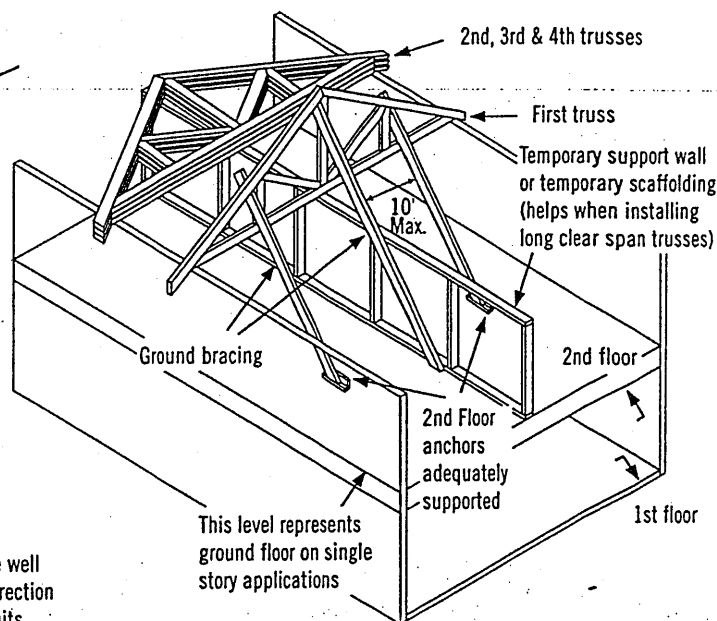
One satisfactory method ties the first unit of trusses off to a series of braces that are attached to a stake driven into the ground and securely anchored. The ground brace itself should be supported as shown below or it is apt to buckle. Additional ground braces in the opposite direction, inside the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

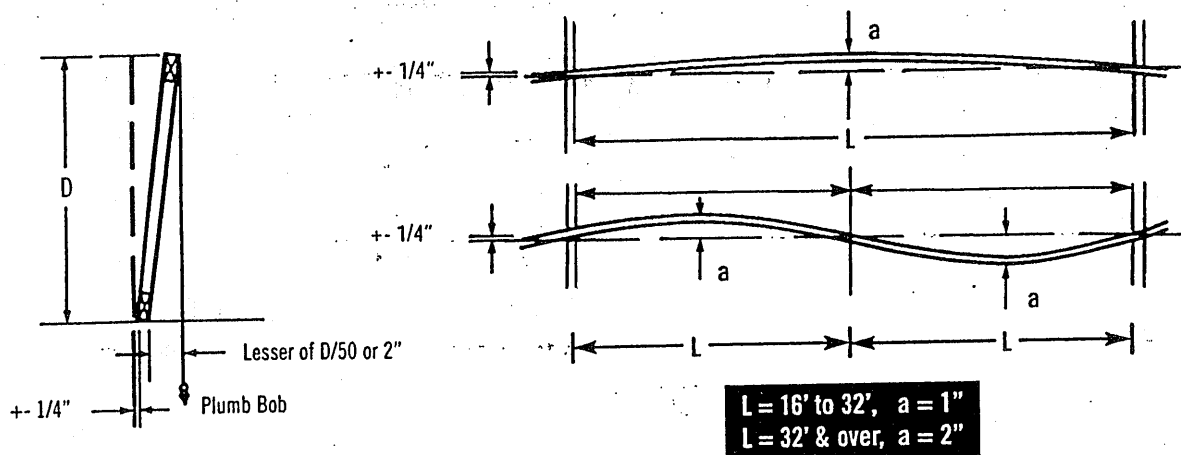


Inadequate size of bracing material or inadequate fastening is a major cause of erection dominoing.

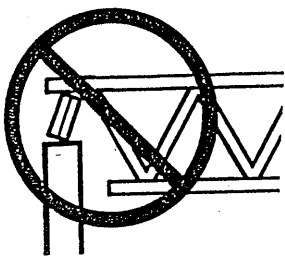
5 Erection Tolerance

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.

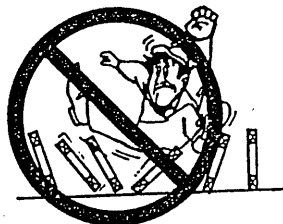
When sheathing, make sure nails are driven into the top chord of the trusses.



6 Bracing



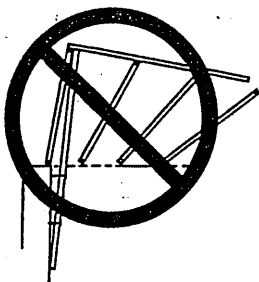
Do not install trusses on temporarily connected supports



Do not walk on unbraced trusses



Do not walk on trusses or gable ends lying flat

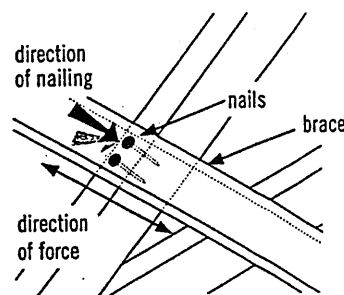


Nails in withdrawal (parallel to force)

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.



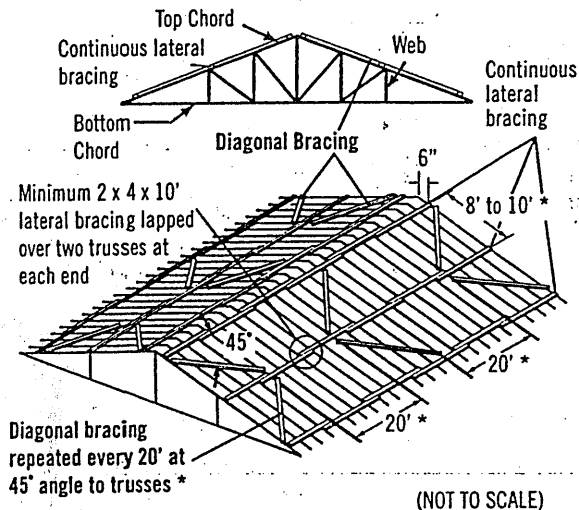
Well nailed (perpendicular to force)

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.

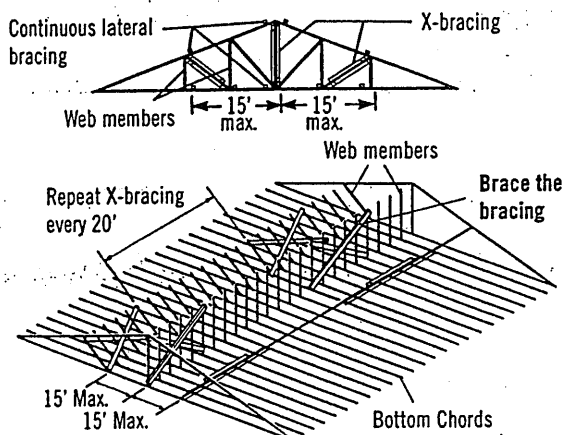


Exact spacing between trusses should be maintained as bracing is installed to avoid the hazardous practice of removing bracing to adjust spacing. This act of "adjusting spacing" can cause trusses to topple if connections are removed at the wrong time.

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.

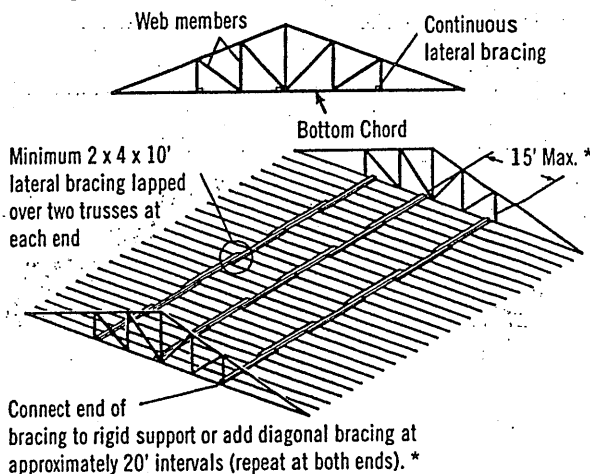
X-bracing should be installed on vertical web members wherever possible, at or near lateral bracing. Plywood or OSB may be substituted for X-bracing.



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

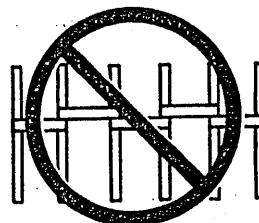
2) Bottom Chord Plane

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

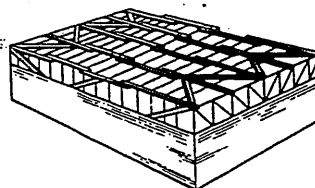


* Long spans, heavy loads or other spacing configurations may require closer spacing between lateral bracing and closer intervals between diagonals. Consult the building designer or HIB and DSB (Recommended Design Specification for Temporary Bracing of Metal-Plate Connected Wood Trusses) for details.

Diagonal or cross-bracing is very important!



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

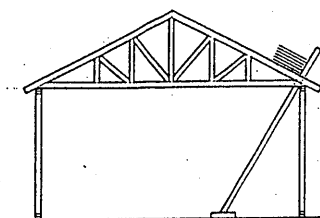
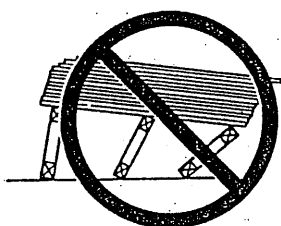


Bracing requirements using the same principles apply to parallel chord trusses

8 Stacking Materials

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

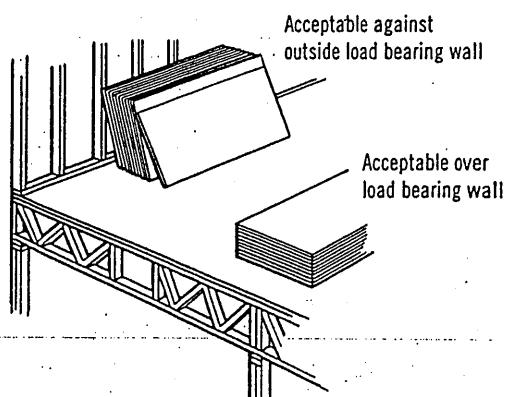
Never stack materials on unbraced or inadequately braced trusses



Platform must be rigidly braced

Proper distribution of construction materials is a must during construction.

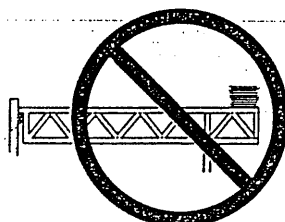
Never stack materials near a peak



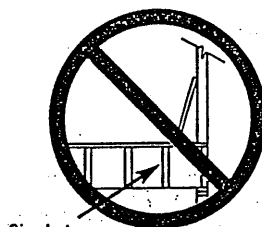
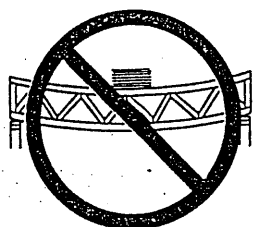
Acceptable against outside load bearing wall

Acceptable over load bearing wall

Never stack materials on the cantilever of a truss

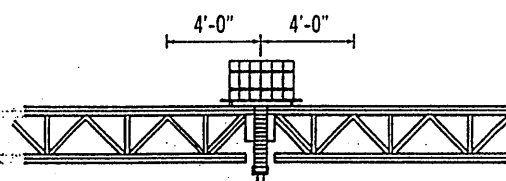


Always stack materials over two or more trusses.



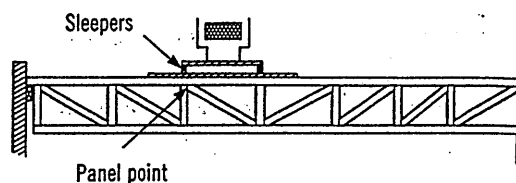
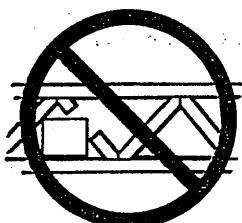
Single truss

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

Panel point

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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