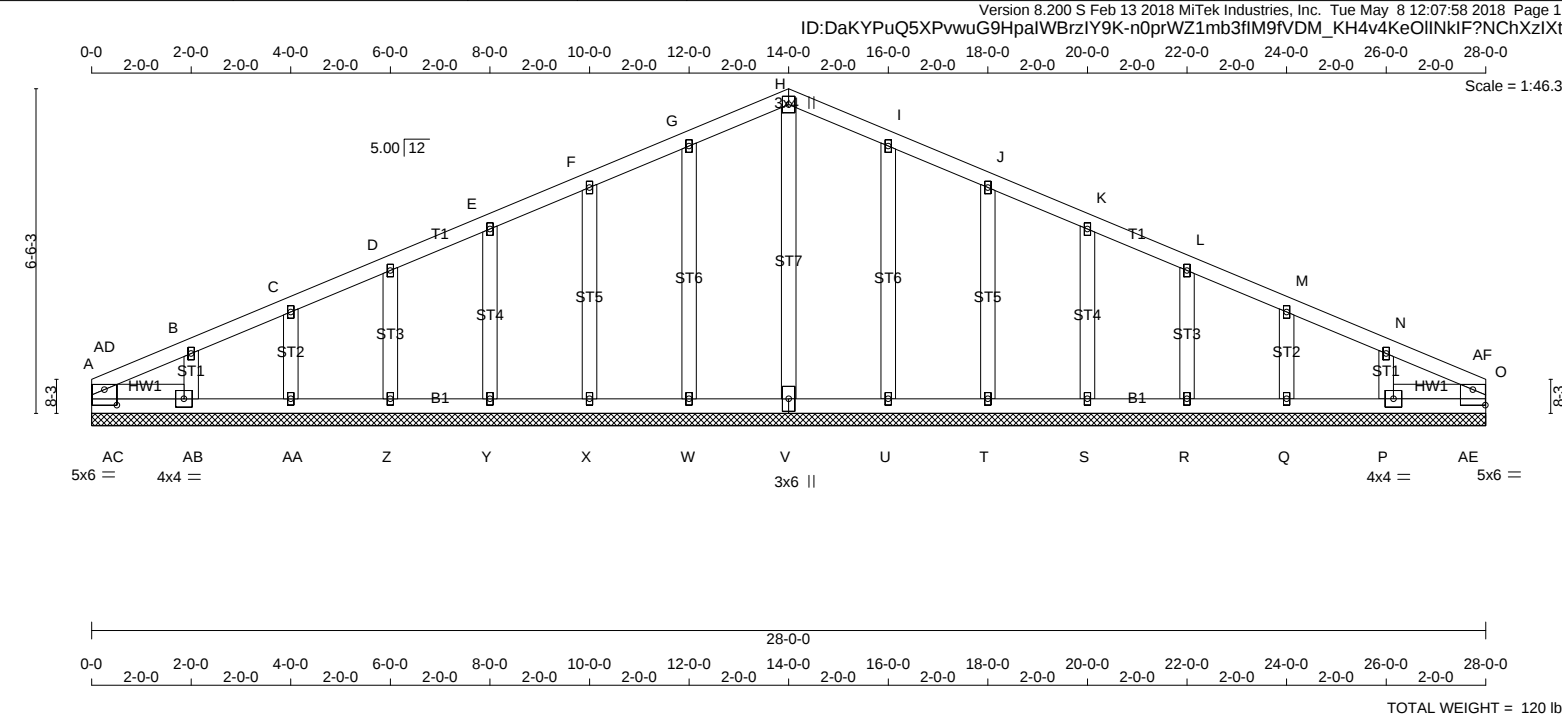


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
18-0164	A01	1	1	TRUSS DESC.	

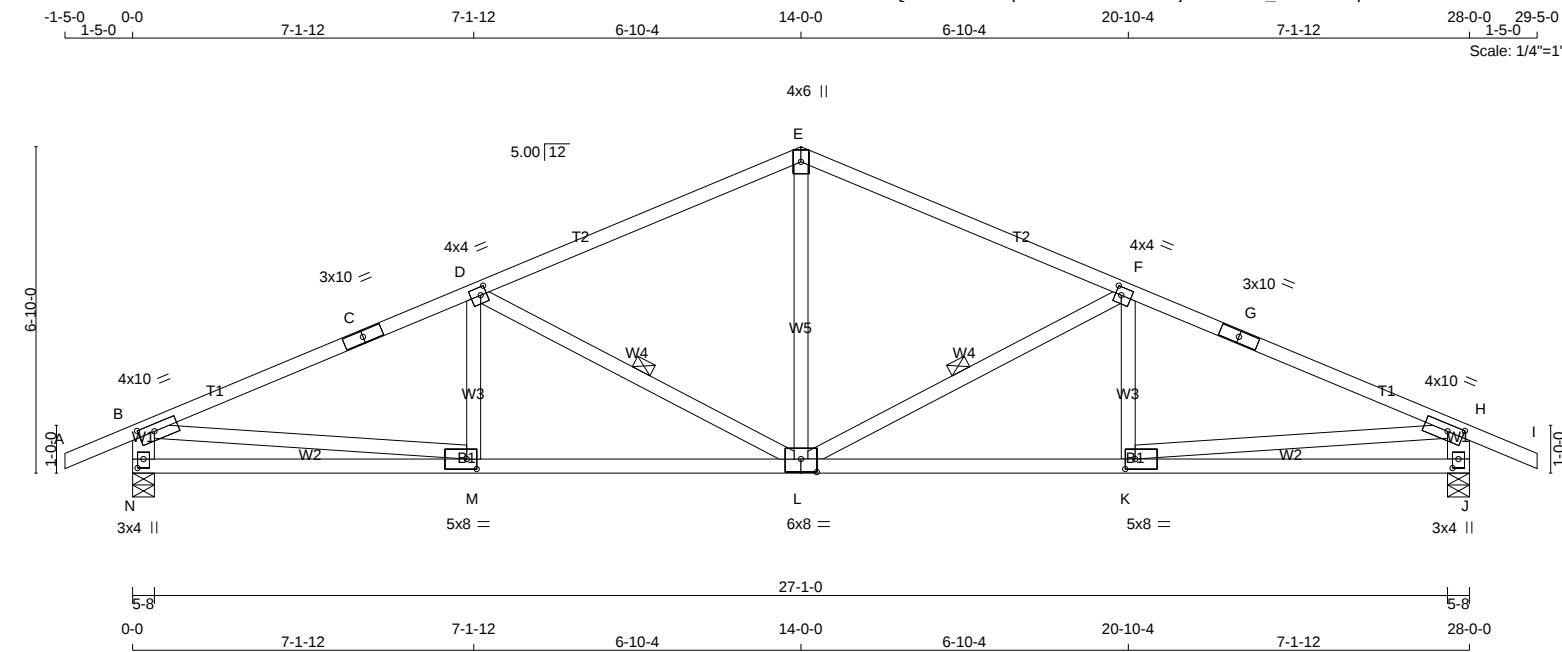


LUMBER										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA									
N. L. G. A. RULES										BEARINGS										SPECIFIED LOADS:									
CHORDS SIZE LUMBER DESCR.										THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.										TOP CH. LL = 53.6 PSF									
A - H 2x4 DRY No.2 SPF																				DL = 5.0 PSF									
H - O 2x4 DRY No.2 SPF										THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.										BOT CH. LL = 0.0 PSF									
A - V 2x4 DRY No.2 SPF																				DL = 7.0 PSF									
V - O 2x4 DRY No.2 SPF										BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)										TOTAL LOAD = 65.6 PSF									
REINFORCING MEMBERS										BRACING										SPACING = 24.0 IN./C									
HW1 2x4 DRY No.2 SPF										TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.										THIS TRUSS IS DESIGNED FOR RESIDENTIAL									
HW2 2x4 DRY No.2 SPF										MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.										OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010									
ALL WEBS 2x4 DRY No.2 SPF										ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.										THIS DESIGN COMPLIES WITH:									
ALL GABLE WEBS 2x4 DRY No.2 SPF																				- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014									
DRY: SEASONED LUMBER.																				- CSA 086-09									
GABLE STUDS SPACED AT 2'-0-0 OC.																				- TPIC 2011									
										LOADING										(55 % OF 89.9 P.S.F. G.S.L. PLUS 4.2 P.S.F. RAIN LOAD) EQUALS 53.6 P.S.F. SPECIFIED ROOF LIVE LOAD									
										TOTAL LOAD CASES: (4)																			
PLATES (table is in inches)																													
JT TYPE PLATES W LEN Y X										CHORDS										WEBS									
										MAX. FACTORED										MAX. FACTORED									
										MEMB. FORCE (LBS)										MEMB. FORCE (LBS)									
										VERT. LOAD (PLF)										MAX. UNBRAC LENGTH									
										CSI (LC)										FR-TO									
A TMBMW1-I MT20 5.0 6.0 3.75 3.00										FR-TO										V- H -280 / 0 0.14 (1)									
B, C, D, E, F, G, I, J, K, L, M, N										A-AD -169 / 0 -173.2 -173.2 0.02 (1) 6.25										W- G -395 / 0 0.14 (1)									
B TMW+w MT20 1.5 3.0										AD- B -46 / 0 -173.2 -173.2 0.07 (1) 6.25										X- F -333 / 0 0.08 (1)									
H TTW+p MT20 3.0 4.0										B- C -37 / 0 -173.2 -173.2 0.08 (1) 6.25										Y- E -347 / 0 0.06 (1)									
O TMBMW1-I MT20 5.0 6.0 3.75 3.00										C- D -29 / 0 -173.2 -173.2 0.08 (1) 6.25										Z- D -342 / 0 0.05 (1)									
P BMWW1-t MT20 4.0 4.0										D- E -21 / 0 -173.2 -173.2 0.08 (1) 6.25										AA- C -347 / 0 0.04 (1)									
Q, R, S, T, U, W, X, Y, Z, AA										E- F -16 / 0 -173.2 -173.2 0.08 (1) 6.25										AB- B -323 / 0 0.03 (1)									
Q BMW1+w MT20 1.5 3.0										F- G -7 / 0 -173.2 -173.2 0.10 (1) 10.00										U- I -395 / 0 0.14 (1)									
V BSW1+I MT20 3.0 6.0										G- H -20 / 0 -173.2 -173.2 0.10 (1) 6.25										T- J -333 / 0 0.08 (1)									
AB BMWW1-t MT20 4.0 4.0										H- I -20 / 0 -173.2 -173.2 0.10 (1) 6.25										S- K -347 / 0 0.06 (1)									
										I- J -7 / 0 -173.2 -173.2 0.10 (1) 10.00										R- L -342 / 0 0.05 (1)									
										J- K -16 / 0 -173.2 -173.2 0.08 (1) 6.25										Q- M -347 / 0 0.04 (1)									
										K- L -21 / 0 -173.2 -173.2 0.08 (1) 6.25										P- N -323 / 0 0.03 (1)									
										L- M -29 / 0 -173.2 -173.2 0.08 (1) 6.25										AC-AD -19 / 16 0.00 (1)									
										M- N -37 / 0 -173.2 -173.2 0.08 (1) 6.25										AD-AB -69 / 0 0.01 (1)									
										N-AF -46 / 0 -173.2 -173.2 0.07 (1) 6.25										AE-AF -19 / 16 0.00 (1)									
										AF- O -169 / 0 -173.2 -173.2 0.02 (1) 6.25										AF- P -69 / 0 0.01 (1)									
										A-AC 0 / 116 -17.5 -17.5 0.03 (1) 10.00																			
										AC-AB 0 / 116 -17.5 -17.5 0.03 (1) 10.00																			
										AB-AA 0 / 36 -17.5 -17.5 0.02 (1) 10.00																			
										AA- Z 0 / 26 -17.5 -17.5 0.01 (4) 10.00																			
										Z- Y 0 / 19 -17.5 -17.5 0.01 (4) 10.00																			
										Y- X 0 / 14 -17.5 -17.5 0.01 (4) 10.00																			
										X- W 0 / 10 -17.5 -17.5 0.01 (4) 10.00																			
										W- V 0 / 6 -17.5 -17.5 0.01 (4) 10.00																			
										V- U 0 / 6 -17.5 -17.5 0.01 (4) 10.00																			
										U- T 0 / 10 -17.5 -17.5 0.01 (4) 10.00																			
										T- S 0 / 14 -17.5 -17.5 0.01 (4) 10.00																			
										S- R 0 / 19 -17.5 -17.5 0.01 (4) 10.00																			
										R- Q 0 / 26 -17.5 -17.5 0.01 (4) 10.00																			
										Q- P 0 / 36 -17.5 -17.5 0.02 (1) 10.00																			
										P-AE 0 / 116 -17.5 -17.5 0.03 (1) 10.00																			
										AE- O 0 / 116 -17.5 -17.5 0.03 (1) 10.00																			
																				MAX MIN MAX MIN MAX MIN									
																				MT20 618 354 1667 822 2284 1656									
																				PLATE PLACEMENT TOL. = 0.250 inches									
																				PLATE ROTATION TOL. = 5.0 Deg.									
																				JSI GRIP= 0.84 (I) (INPUT = 0.90)									
																				JSI METAL= 0.11 (G) (INPUT = 1.00)									

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
18-0164	A02	16	1	TRUSS DESC.	

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ID:DaKYPuQ5XPvwuG9HpaIWBBrzIY9K-FCNDjv2OMNn9_EJehn3VZqIR222ZU1ihRUf7IDzzIXtk



TOTAL WEIGHT = 16 X 119 = 1907 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	2100F 1.8E
C - E	2x4	DRY	2100F 1.8E
E - G	2x4	DRY	2100F 1.8E
G - I	2x4	DRY	2100F 1.8E
N - B	2x6	DRY	No.2
J - H	2x6	DRY	No.2
N - L	2x4	DRY	No.2
L - J	2x4	DRY	No.2
ALL WEBS	2x4	DRY	No.2
EXCEPT			SPF
DRY: SEASONED LUMBER.			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-t	MT20	4.0	10.0	1.75 4.00
C	TS-t	MT20	3.0	10.0	
D	TMWW-t	MT20	4.0	4.0	2.00 1.50
E	TTW+p	MT20	4.0	6.0	
F	TMWW-t	MT20	4.0	4.0	2.00 1.50
G	TS-t	MT20	3.0	10.0	
H	TMVW-t	MT20	4.0	10.0	1.75 4.00
J	BMV1+p	MT20	3.0	4.0	2.25 1.50
K	BMWW-t	MT20	5.0	8.0	2.50 2.50
L	BSWWW-t	MT20	6.0	8.0	3.25 4.00
M	BMWW-t	MT20	5.0	8.0	2.50 2.50
N	BMV1+p	MT20	3.0	4.0	2.25 1.50

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
N	2925	0	2925	0	5-8
J	2925	0	2925	0	5-8

UNFACTORED REACTIONS		1ST LCASE	MAX./MIN. COMPONENT REACTIONS		
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
N	2009	1658 / 0	0 / 0	0 / 0	351 / 0
J	2009	1658 / 0	0 / 0	0 / 0	351 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.97 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 F-L, D-L.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MAX. FACTORED CSI (LC)
FR-TO		FROM TO		FR-TO			
A-B	0 / 49	-173.2 -173.2	0.17 (1)	L-E	0 / 1502	10.00	0.24 (1)
B-C	-4448 / 0	-173.2 -173.2	0.93 (1)	L-F	-1455 / 0	2.97	0.42 (1)
C-D	-4448 / 0	-173.2 -173.2	0.93 (1)	K-F	-279 / 84	2.97	0.05 (1)
D-E	-3170 / 0	-173.2 -173.2	0.80 (1)	D-L	-1455 / 0	3.67	0.42 (1)
E-F	-3170 / 0	-173.2 -173.2	0.80 (1)	M-D	-279 / 84	3.67	0.05 (1)
F-G	-4448 / 0	-173.2 -173.2	0.93 (1)	B-M	0 / 4176	2.97	0.67 (1)
G-H	-4448 / 0	-173.2 -173.2	0.93 (1)	K-H	0 / 4176	2.97	0.67 (1)
H-I	0 / 49	-173.2 -173.2	0.17 (1)			10.00	
N-B	-2869 / 0	0.0 0.0	0.18 (1)			6.20	
J-H	-2869 / 0	0.0 0.0	0.18 (1)			6.20	
N-M	0 / 0	-17.5 -17.5	0.20 (4)			10.00	
M-L	0 / 4156	-17.5 -17.5	0.77 (1)			10.00	
L-K	0 / 4156	-17.5 -17.5	0.77 (1)			10.00	
K-J	0 / 0	-17.5 -17.5	0.20 (4)			10.00	

DESIGN CRITERIA

SPECIFIED LOADS:			
TOP CH.	LL	=	53.6 PSF
	DL	=	5.0 PSF
BOT CH.	LL	=	0.0 PSF
	DL	=	7.0 PSF
TOTAL LOAD = 65.6 PSF			

SPACING = 24.0 IN./C/C

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

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

(55 % OF 89.9 P.S.F. G.S.L. PLUS 4.2 P.S.F. RAIN LOAD) EQUALS 53.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.93")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.21")
ALLOWABLE DEFL.(TL)= L/360 (0.93")
CALCULATED VERT. DEFL.(TL) = L/ 994 (0.34")

CSI: TC=0.93/1.00 (B-D:1), BC=0.77/1.00 (L-M:1), WB=0.67/1.00 (B-M:1), SSI=0.55/1.00 (B-D:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

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

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

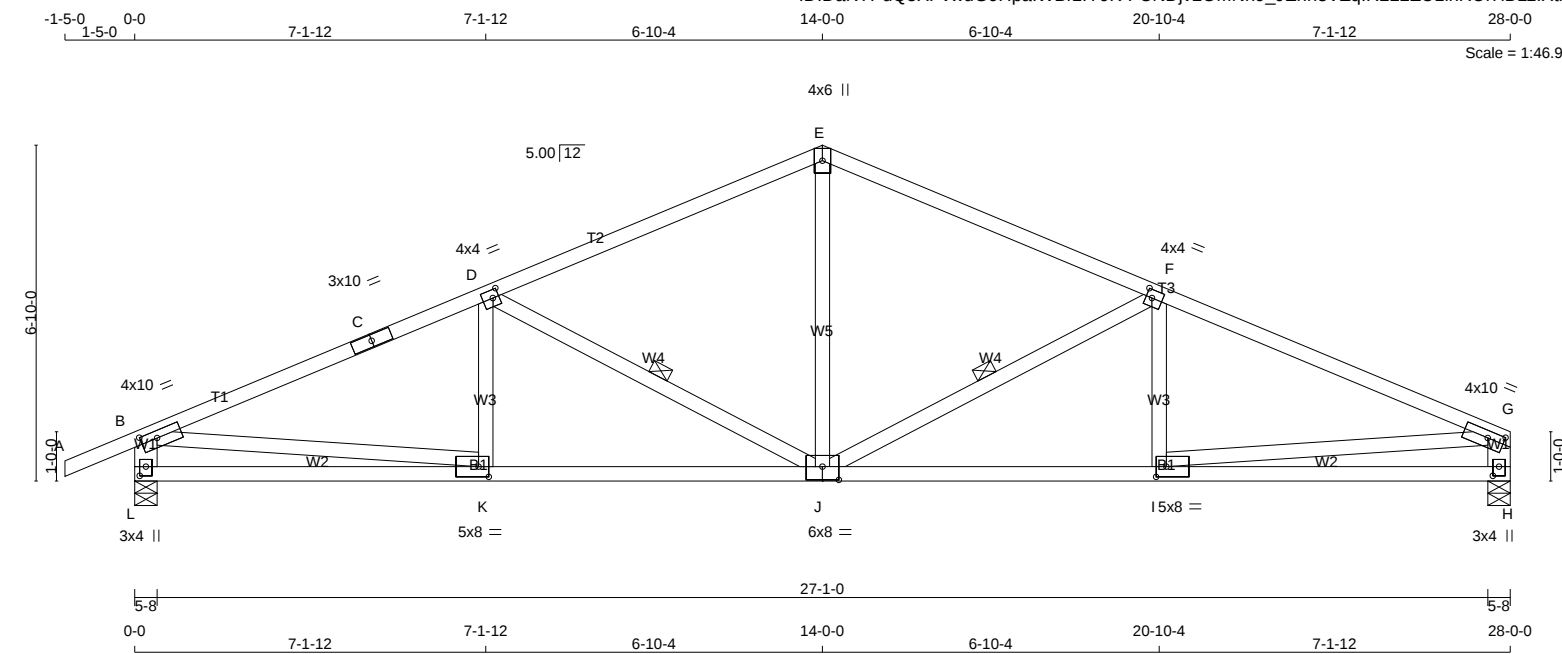
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (H) (INPUT = 0.90)
JSI METAL= 0.78 (M) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
18-0164	A03	10	1	TRUSS DESC.	

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TOTAL WEIGHT = 10 X 117 = 1174 lb
[M][F]

LUMBER N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	2100F 1.8E	SPF
C - E	2x4	2100F 1.8E	SPF
E - G	2x4	2100F 1.8E	SPF
L - B	2x6	No.2	SPF
H - G	2x6	No.2	SPF
L - J	2x4	No.2	SPF
J - H	2x4	No.2	SPF
ALL WEBS EXCEPT	2x4	No.2	SPF
DRY: SEASONED LUMBER.			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-t	MT20	4.0	10.0	1.75 4.00
C	TS-t	MT20	3.0	10.0	
D	TMWW-t	MT20	4.0	4.0	2.00 1.50
E	TTW+p	MT20	4.0	6.0	
F	TMWW-t	MT20	4.0	4.0	2.00 1.50
G	TMVW-t	MT20	4.0	10.0	1.75 4.00
H	BMV1+p	MT20	3.0	4.0	2.25 1.50
I	BMWW-t	MT20	5.0	8.0	2.50 2.50
J	BSWWW-t	MT20	6.0	8.0	3.25 4.00
K	BMWW-t	MT20	5.0	8.0	2.50 2.50
L	BMV1+p	MT20	3.0	4.0	2.25 1.50

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
L	2925	0	2925	0	0
H	2670	0	2670	0	0

UNFACTORED REACTIONS		1ST LCASE	MAX./MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	2009	1658 / 0	0 / 0	0 / 0	0 / 0	351 / 0	0 / 0
H	1836	1500 / 0	0 / 0	0 / 0	0 / 0	336 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.97 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 F-J, D-J.

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 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX UNBRAC LENGTH	MAX FACTORED CSI (LC)
FR-TO		FROM TO		FR-TO			
A-B	0 / 49	-173.2 -173.2	0.17 (1)	10.00	J-E	0 / 1502	0.24 (1)
B-C	-4448 / 0	-173.2 -173.2	0.93 (1)	2.97	J-F	-1455 / 0	0.42 (1)
C-D	-4448 / 0	-173.2 -173.2	0.93 (1)	2.97	I-F	-279 / 84	0.05 (1)
D-E	-3170 / 0	-173.2 -173.2	0.80 (1)	3.67	D-J	-1455 / 0	0.42 (1)
E-F	-3170 / 0	-173.2 -173.2	0.80 (1)	3.67	K-D	-279 / 84	0.05 (1)
F-G	-4448 / 0	-173.2 -173.2	0.93 (1)	2.97	B-K	0 / 4176	0.67 (1)
L-B	-2869 / 0	0.0 0.0	0.18 (1)	6.20	I-G	0 / 4176	0.67 (1)
H-G	-2614 / 0	0.0 0.0	0.17 (1)	6.43			
L-K	0 / 0	-17.5 -17.5	0.20 (4)	10.00			
K-J	0 / 4156	-17.5 -17.5	0.77 (1)	10.00			
J-I	0 / 4156	-17.5 -17.5	0.77 (1)	10.00			
I-H	0 / 0	-17.5 -17.5	0.20 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 53.6 PSF
DL = 5.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 65.6 PSF

SPACING = 24.0 IN./C

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

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

(55 % OF 89.9 P.S.F. G.S.L. PLUS 4.2 P.S.F. RAIN LOAD) EQUALS 53.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.93")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.21")
ALLOWABLE DEFL.(TL)= L/360 (0.93")
CALCULATED VERT. DEFL.(TL) = L/ 994 (0.34")

CSI: TC=0.93/1.00 (B-D:1), BC=0.77/1.00 (J-K:1), WB=0.67/1.00 (B-K:1), SSI=0.55/1.00 (B-D:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

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

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

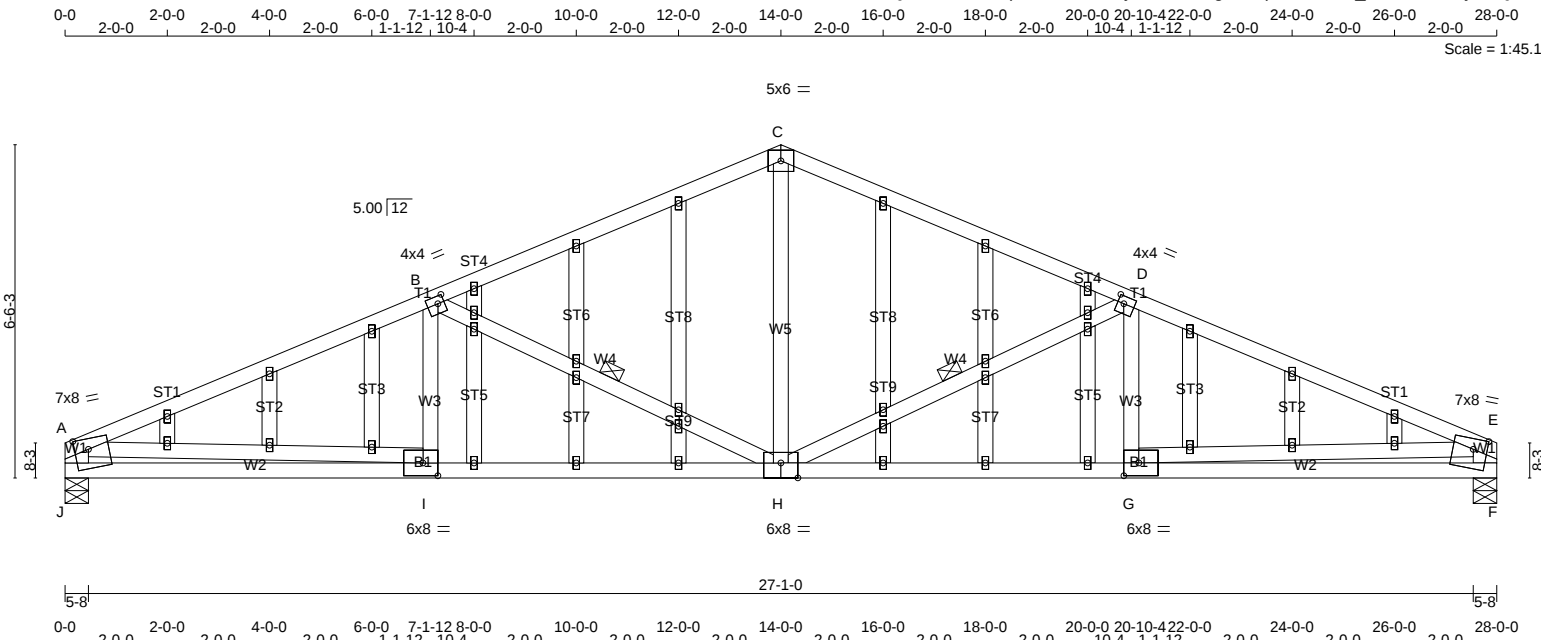
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (G) (INPUT = 0.90)
JSI METAL= 0.78 (K) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
18-0164	A04	1	1	TRUSS DESC.	

ID:DaKYPuQ5XPwvuG9HpaIWBBrziY9K-jOxbxF307gv0bTpuKn0oMV_CCStem8?bjJslQzIXj



LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
A - C	2x4	DRY	2100F 1.8E	SPF
C - E	2x4	DRY	2100F 1.8E	SPF
J - A	2x6	DRY	No.2	SPF
F - E	2x6	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
H - F	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x4	DRY	No.2	SPF
ALL GABLE WEBS	2x4	DRY	No.2	SPF
DRY: SEASONED LUMBER.				
GABLE STUDS SPACED AT 2'-0" OC.				

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
A, E, F, J				
A				
A	TMBMVW1*-m	MT20	7.0	8.0 2.50 3.25
B	TMWW-t	MT20	4.0	4.0 1.75 1.50
C	TTW-p	MT20	5.0	6.0
D	TMWW-t	MT20	4.0	4.0 1.75 1.50
E	TMBMVW1*-m	MT20	7.0	8.0 2.50 3.25
G	BMWW-t	MT20	6.0	8.0 3.00 3.50
H	BSWWW-t	MT20	6.0	8.0 Edge 4.00
I	BMWW-t	MT20	6.0	8.0 3.00 3.50
K, K, L, M, N, O, P, Q, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AB, AC, AD, AE, AE, AF, AG, AH, AH, AI, AJ, AK, AL, AM, AN				
K	NP+w	MT20	1.5	3.0
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.				

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
J	2670	0	2670	0	5-8
F	2670	0	2670	0	5-8

UNFACTORED REACTIONS		1ST LCASE	MAX./MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	1836	1500 / 0	0 / 0	0 / 0	0 / 0	336 / 0	0 / 0
F	1836	1500 / 0	0 / 0	0 / 0	0 / 0	336 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.81 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-H, B-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)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO	FROM TO	FR-TO	FROM TO
A-B	-4866 / 0	H-C	0 / 1622
B-C	-3328 / 0	H-D	-1694 / 0
C-D	-3328 / 0	G-D	-119 / 112
D-E	-4866 / 0	B-H	-1694 / 0
J-A	-2613 / 0	I-B	-119 / 112
F-E	-2613 / 0	A-I	0 / 4548
		G-E	0 / 4548
J-I	0 / 0		
I-H	0 / 4542		
H-G	0 / 4542		
G-F	0 / 0		

DESIGN CRITERIA

SPECIFIED LOADS:			
TOP CH.	LL	=	53.6 PSF
	DL	=	5.0 PSF
BOT CH.	LL	=	0.0 PSF
	DL	=	7.0 PSF
TOTAL LOAD = 65.6 PSF			

SPACING = 24.0 IN./C

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

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

(55 % OF 89.9 P.S.F. G.S.L. PLUS 4.2 P.S.F. RAIN LOAD) EQUALS 53.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.93")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.25")
ALLOWABLE DEFL.(TL)= L/360 (0.93")
CALCULATED VERT. DEFL.(TL) = L/ 850 (0.40")

CSI: TC=0.97/1.00 (A-B:1) , BC=0.84/1.00 (H-I:1) , WB=0.73/1.00 (A-I:1) , SSI=0.55/1.00 (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 = 0.50

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (I) (INPUT = 0.90)
JSI METAL= 0.87 (E) (INPUT = 1.00)

DRWG NO.

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TOTAL WEIGHT = 79 lb

PLATES (table is in inches)		W	LEN	Y	X
JT	TYPE				
A, M, N, AA					
A					
B, C, D, E, F, H, I, J, K, L					
B	TMW+w	MT20	1.5	3.0	
G	TTW+p	MT20	3.0	4.0	
M	TMBMV1+p	MT20	2.0	5.0	2.75 1.00
O, P, Q, R, T, U, V, W, X, Y, Z					
O	BMW1+w	MT20	1.5	3.0	
S	BS-t	MT20	3.0	4.0	
AA	TMBMV1+p	MT20	2.0	5.0	2.75 1.00

LOADING
TOTAL LOAD CASES: (4)

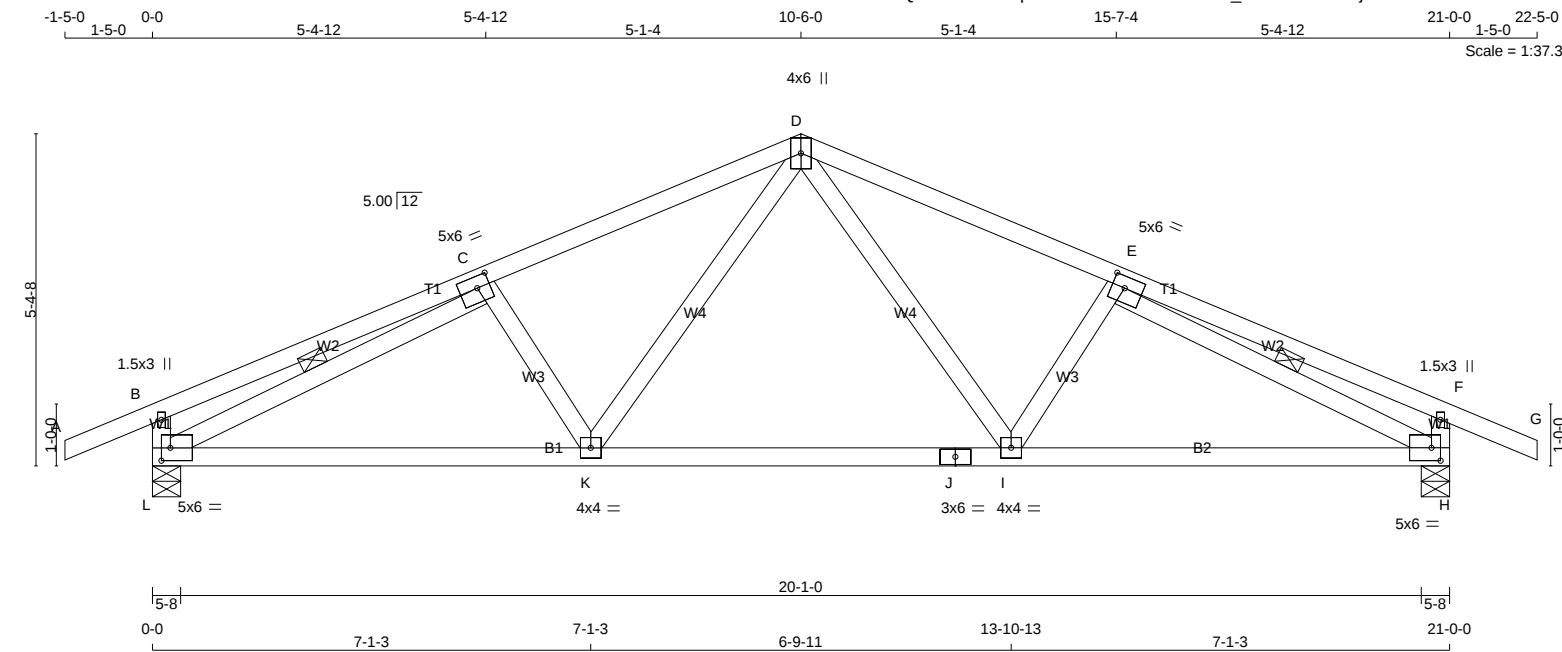
AA-Z	0/67	-17.5	-17.5	0.03 (1)	10.00
Z-Y	0/41	-17.5	-17.5	0.02 (1)	10.00
Y-X	0/27	-17.5	-17.5	0.01 (4)	10.00
X-W	0/18	-17.5	-17.5	0.01 (4)	10.00
W-V	0/12	-17.5	-17.5	0.01 (4)	10.00
V-U	0/7	-17.5	-17.5	0.01 (4)	10.00
U-T	0/7	-17.5	-17.5	0.01 (4)	10.00
T-S	0/12	-17.5	-17.5	0.01 (4)	10.00
S-R	0/12	-17.5	-17.5	0.01 (4)	10.00
R-Q	0/18	-17.5	-17.5	0.01 (4)	10.00
Q-P	0/27	-17.5	-17.5	0.01 (4)	10.00
P-O	0/41	-17.5	-17.5	0.02 (1)	10.00
O-N	0/67	-17.5	-17.5	0.03 (1)	10.00

JSI GRIP= 0.84 (H) (INPUT = 0.90)
JSI METAL= 0.14 (G) (INPUT = 1.00)

LUMBER							
N. L. G. A. RULES							
CHORDS	SIZE		LUMBER				DESCR.
AA- A	2x4	DRY	No.2				SPF
A - G	2x4	DRY	No.2				SPF
G - M	2x4	DRY	No.2				SPF
N - M	2x4	DRY	No.2				SPF
AA- S	2x4	DRY	No.2				SPF
S - N	2x4	DRY	No.2				SPF
ALL WEBS	2x4	DRY	No.2				SPF
ALL GABLE WEBS	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, M, N, AA							
A							
B, C, D, E, F, H, I, J, K, L							
B	TMW+w	MT20	1.5	3.0			
G	TTW+p	MT20	3.0	4.0			
M	TMBMV1+p	MT20	2.0	5.0	2.75	1.00	
O, P, Q, R, T, U, V, W, X, Y, Z							
O	BMW1+w	MT20	1.5	3.0			
S	BS-t	MT20	3.0	4.0			
AA	TMBMV1+p	MT20	2.0	5.0	2.75	1.00	

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
18-0164	B02	8	1	TRUSS DESC.	

ID:DaKYPuQ5XPwwuG9HpalWBrzlY9K-BaVz8b3eu_1tDdO4uUX1vjWRBrGvVdDkxzcsIszIXt



TOTAL WEIGHT = 8 X 88 = 706 lb [M][F]

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

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMV+p	MT20	1.5	3.0
C	TMWW-t	MT20	5.0	6.0 2.25 2.50
D	TTWW+p	MT20	4.0	6.0
E	TMWW-t	MT20	5.0	6.0 2.25 2.50
F	TMV+p	MT20	1.5	3.0
H	BMVW1-t	MT20	5.0	6.0 2.50 1.75
I	BMWW-t	MT20	4.0	4.0
J	BS-t	MT20	3.0	6.0
K	BMWW-t	MT20	4.0	4.0
L	BMVW1-t	MT20	5.0	6.0 2.50 1.75

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQRD
GROSS REACTION		DOWN	DOWN	BRG	BRG
JT	VERT	0	0	0	0
L	2258	0	2258	0	5-8
H	2258	0	2258	0	5-8

UNFACTORED REACTIONS		1ST LCASE	MAX./MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	1550	1283 / 0	0 / 0	0 / 0	0 / 0	267 / 0	0 / 0
H	1550	1283 / 0	0 / 0	0 / 0	0 / 0	267 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.30 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-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)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 49	-173.2 -173.2	0.26 (1)	10.00	D-I	0 / 864	0.14 (1)
B-C	0 / 40	-173.2 -173.2	0.76 (1)	10.00	I-E	-691 / 0	0.11 (1)
C-D	-2800 / 0	-173.2 -173.2	0.71 (1)	3.30	K-D	0 / 864	0.14 (1)
D-E	-2800 / 0	-173.2 -173.2	0.71 (1)	3.30	C-K	-691 / 0	0.11 (1)
E-F	0 / 40	-173.2 -173.2	0.76 (1)	10.00	L-C	-3320 / 0	0.61 (1)
F-G	0 / 49	-173.2 -173.2	0.26 (1)	10.00	E-H	-3320 / 0	0.61 (1)
L-B	-609 / 0	0.0 0.0	0.06 (1)	7.81			
H-F	-609 / 0	0.0 0.0	0.06 (1)	7.81			
L-K	0 / 2911	-17.5 -17.5	0.58 (1)	10.00			
K-J	0 / 2066	-17.5 -17.5	0.42 (1)	10.00			
J-I	0 / 2066	-17.5 -17.5	0.42 (1)	10.00			
I-H	0 / 2911	-17.5 -17.5	0.58 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 53.6 PSF
DL = 5.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 65.6 PSF

SPACING = 24.0 IN./C

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

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

(55 % OF 89.9 P.S.F. G.S.L. PLUS 4.2 P.S.F. RAIN LOAD) EQUALS 53.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.70")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.14")
ALLOWABLE DEFL.(TL)= L/360 (0.70")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.21")

CSI: TC=0.76/1.00 (B-C:1), BC=0.58/1.00 (K-L:1), WB=0.61/1.00 (C-L:1), SSI=0.41/1.00 (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 = 0.50

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

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

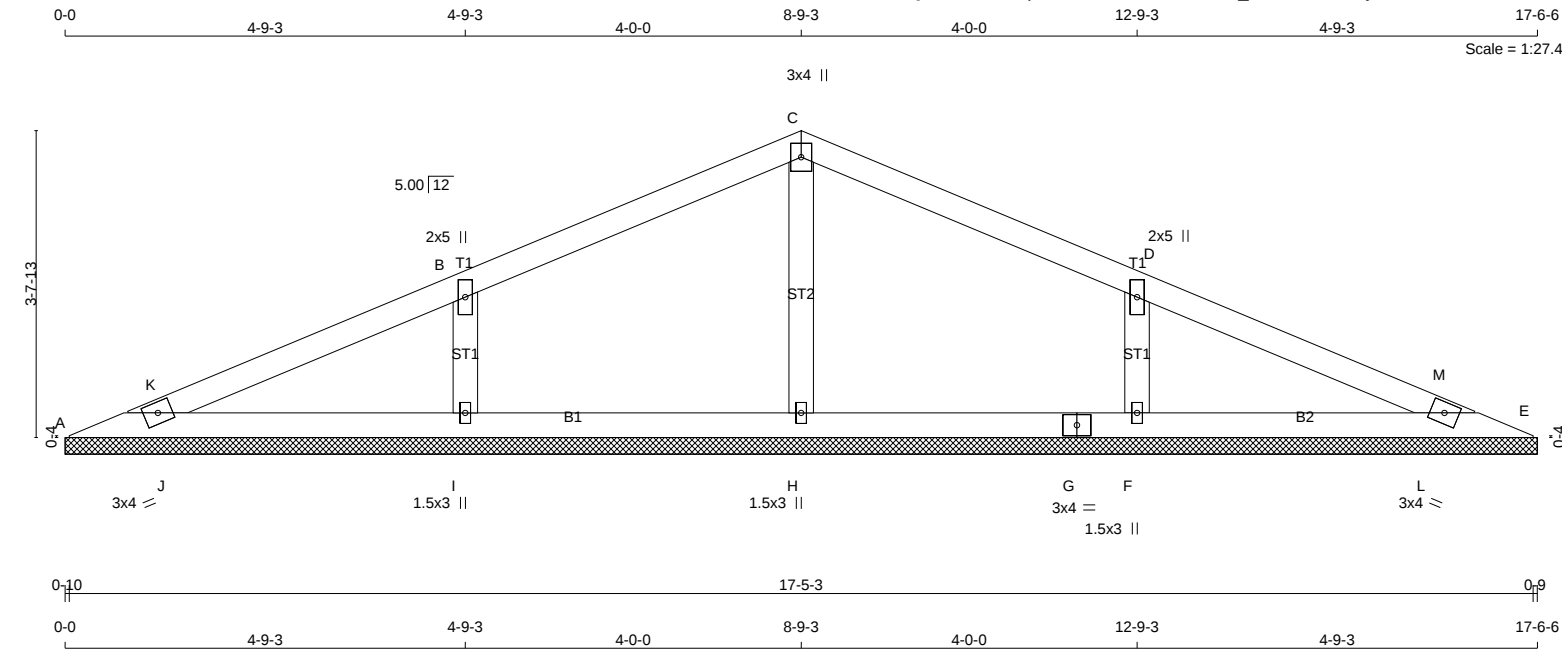
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (I) (INPUT = 0.90)
JSI METAL= 0.80 (C) (INPUT = 1.00)

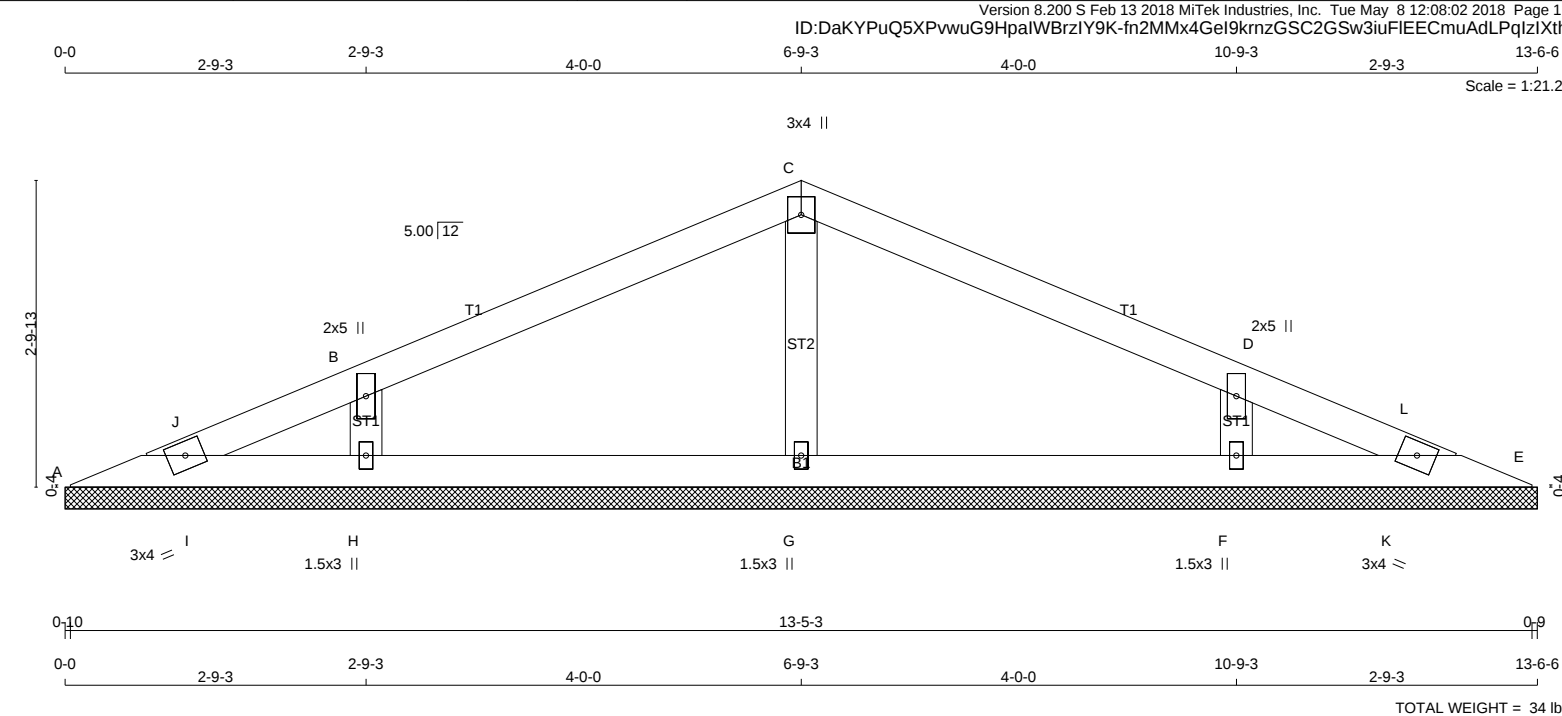
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
18-0164	V01	1	1	TRUSS DESC.	

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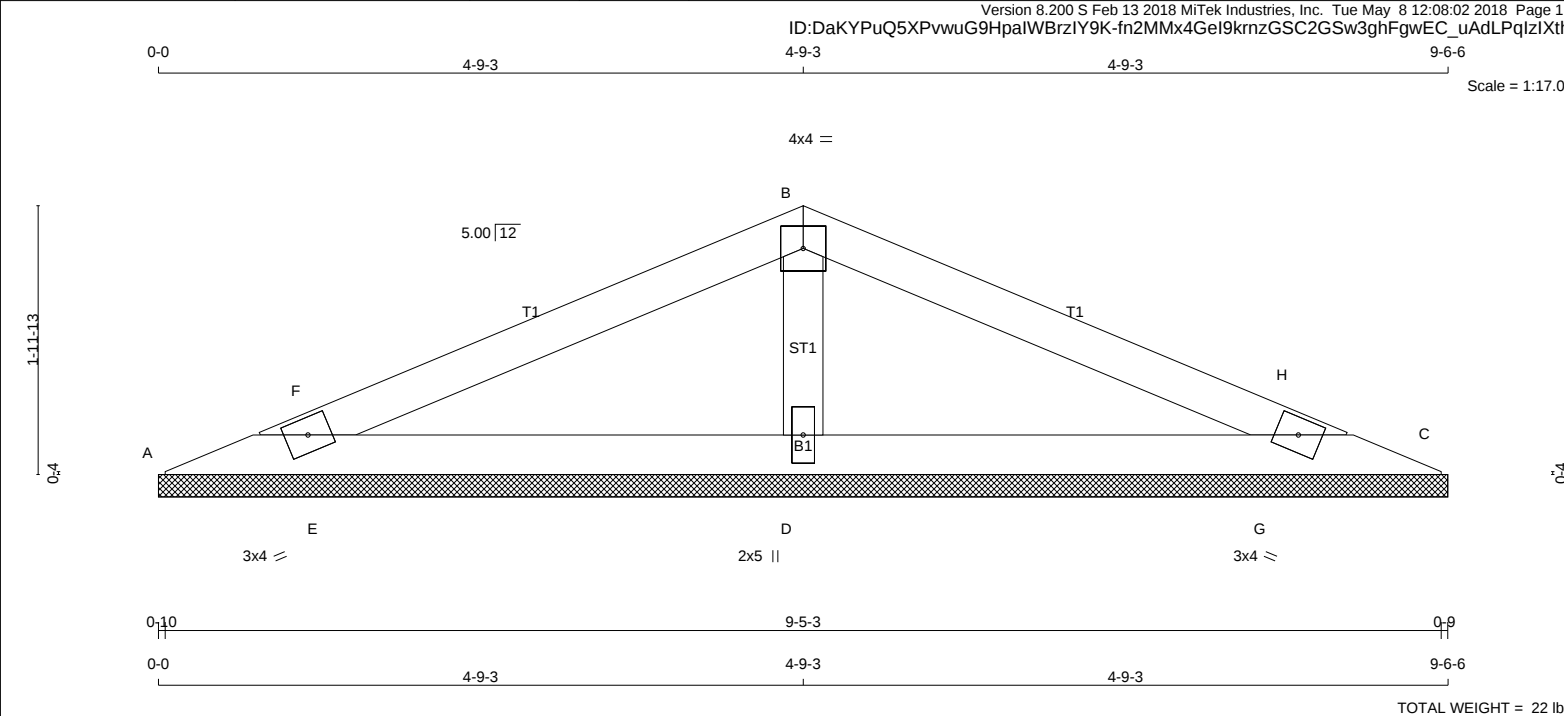
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - C 2x4 DRY No.2 SPF C - E 2x4 DRY No.2 SPF A - G 2x4 DRY No.2 SPF G - E 2x4 DRY No.2 SPF ALL WEBS 2x4 DRY No.2 SPF DRY: SEASONED LUMBER.							DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><th rowspan="2">JT</th><th colspan="2">FACTORED GROSS REACTION</th><th colspan="2">MAXIMUM FACTORED GROSS REACTION</th><th rowspan="2">INPUT BRG</th><th rowspan="2">REQD BRG</th></tr><tr><th>VERT</th><th>HORZ</th><th>DOWN</th><th>HORZ</th></tr><tr><td>A</td><td>252</td><td>0</td><td>252</td><td>0</td><td>17-6-6 (5-5-3)</td><td>17-6-6</td></tr><tr><td>E</td><td>252</td><td>0</td><td>252</td><td>0</td><td>17-6-6 (5-5-3)</td><td>17-6-6</td></tr><tr><td>H</td><td>801</td><td>0</td><td>801</td><td>0</td><td>17-6-6 (5-5-3)</td><td>17-6-6</td></tr><tr><td>I</td><td>1010</td><td>0</td><td>1010</td><td>0</td><td>17-6-6 (5-5-3)</td><td>17-6-6</td></tr><tr><td>F</td><td>1010</td><td>0</td><td>1010</td><td>0</td><td>17-6-6 (5-5-3)</td><td>17-6-6</td></tr></table> VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH UNFACTORED REACTIONS <table><tr><th rowspan="2">JT</th><th rowspan="2">1ST LCASE</th><th colspan="4">MAX./MIN. COMPONENT REACTIONS</th><th rowspan="2">WIND</th><th rowspan="2">DEAD</th><th rowspan="2">SOIL</th></tr><tr><th>SNOW</th><th>LIVE</th><th>PERM.LIVE</th><th></th></tr><tr><td>A</td><td>173</td><td>142 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>31 / 0</td><td>0 / 0</td><td>0 / 0</td></tr><tr><td>E</td><td>173</td><td>142 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>31 / 0</td><td>0 / 0</td><td>0 / 0</td></tr><tr><td>H</td><td>553</td><td>439 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>113 / 0</td><td>0 / 0</td><td>0 / 0</td></tr><tr><td>I</td><td>694</td><td>572 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>122 / 0</td><td>0 / 0</td><td>0 / 0</td></tr><tr><td>F</td><td>694</td><td>572 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>122 / 0</td><td>0 / 0</td><td>0 / 0</td></tr></table> BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) A, E, H, I, F BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) <table><tr><th colspan="4">CHORDS</th><th colspan="4">WEBS</th></tr><tr><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>FACTORED VERT. LOAD (PLF)</th><th>MAX LC1 (LC)</th><th>MAX. UNBRACED LENGTH</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>MAX LC1 (LC)</th></tr><tr><td>FR-TO</td><td></td><td>FROM TO</td><td></td><td></td><td>FR-TO</td><td></td><td></td></tr><tr><td>A- K</td><td>0 / 273</td><td>-173.2 -173.2</td><td>0.14 (1)</td><td>10.00</td><td>H- C</td><td>-785 / 0</td><td>0.12 (1)</td></tr><tr><td>K- B</td><td>0 / 346</td><td>-173.2 -173.2</td><td>0.53 (1)</td><td>10.00</td><td>I- B</td><td>-844 / 0</td><td>0.09 (1)</td></tr><tr><td>B- C</td><td>0 / 297</td><td>-173.2 -173.2</td><td>0.52 (1)</td><td>10.00</td><td>F- D</td><td>-844 / 0</td><td>0.09 (1)</td></tr><tr><td>C- D</td><td>0 / 297</td><td>-173.2 -173.2</td><td>0.52 (1)</td><td>10.00</td><td>J- K</td><td>-197 / 8</td><td>0.00 (1)</td></tr><tr><td>D- M</td><td>0 / 346</td><td>-173.2 -173.2</td><td>0.53 (1)</td><td>10.00</td><td>L- M</td><td>-197 / 8</td><td>0.00 (1)</td></tr><tr><td>M- E</td><td>0 / 273</td><td>-173.2 -173.2</td><td>0.14 (1)</td><td>10.00</td><td></td><td></td><td></td></tr></table> <table><tr><td>A- J</td><td>-294 / 0</td><td>-17.5 -17.5</td><td>0.22 (1)</td><td>6.25</td></tr><tr><td>J- I</td><td>-276 / 0</td><td>-17.5 -17.5</td><td>0.22 (1)</td><td>6.25</td></tr><tr><td>I- H</td><td>-305 / 0</td><td>-17.5 -17.5</td><td>0.13 (1)</td><td>6.25</td></tr><tr><td>H- G</td><td>-305 / 0</td><td>-17.5 -17.5</td><td>0.13 (1)</td><td>6.25</td></tr><tr><td>G- F</td><td>-305 / 0</td><td>-17.5 -17.5</td><td>0.13 (1)</td><td>6.25</td></tr><tr><td>F- L</td><td>-276 / 0</td><td>-17.5 -17.5</td><td>0.22 (1)</td><td>6.25</td></tr><tr><td>L- E</td><td>-294 / 0</td><td>-17.5 -17.5</td><td>0.22 (1)</td><td>6.25</td></tr></table>										JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG	VERT	HORZ	DOWN	HORZ	A	252	0	252	0	17-6-6 (5-5-3)	17-6-6	E	252	0	252	0	17-6-6 (5-5-3)	17-6-6	H	801	0	801	0	17-6-6 (5-5-3)	17-6-6	I	1010	0	1010	0	17-6-6 (5-5-3)	17-6-6	F	1010	0	1010	0	17-6-6 (5-5-3)	17-6-6	JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS				WIND	DEAD	SOIL	SNOW	LIVE	PERM.LIVE		A	173	142 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0	0 / 0	E	173	142 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0	0 / 0	H	553	439 / 0	0 / 0	0 / 0	0 / 0	113 / 0	0 / 0	0 / 0	I	694	572 / 0	0 / 0	0 / 0	0 / 0	122 / 0	0 / 0	0 / 0	F	694	572 / 0	0 / 0	0 / 0	0 / 0	122 / 0	0 / 0	0 / 0	CHORDS				WEBS				MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)	FR-TO		FROM TO			FR-TO			A- K	0 / 273	-173.2 -173.2	0.14 (1)	10.00	H- C	-785 / 0	0.12 (1)	K- B	0 / 346	-173.2 -173.2	0.53 (1)	10.00	I- B	-844 / 0	0.09 (1)	B- C	0 / 297	-173.2 -173.2	0.52 (1)	10.00	F- D	-844 / 0	0.09 (1)	C- D	0 / 297	-173.2 -173.2	0.52 (1)	10.00	J- K	-197 / 8	0.00 (1)	D- M	0 / 346	-173.2 -173.2	0.53 (1)	10.00	L- M	-197 / 8	0.00 (1)	M- E	0 / 273	-173.2 -173.2	0.14 (1)	10.00				A- J	-294 / 0	-17.5 -17.5	0.22 (1)	6.25	J- I	-276 / 0	-17.5 -17.5	0.22 (1)	6.25	I- H	-305 / 0	-17.5 -17.5	0.13 (1)	6.25	H- G	-305 / 0	-17.5 -17.5	0.13 (1)	6.25	G- F	-305 / 0	-17.5 -17.5	0.13 (1)	6.25	F- L	-276 / 0	-17.5 -17.5	0.22 (1)	6.25	L- E	-294 / 0	-17.5 -17.5	0.22 (1)	6.25	DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 53.6 PSF DL = 5.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 65.6 PSF SPACING = 24.0 IN. C/C THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 89.9 P.S.F. G.S.L. PLUS 4.2 P.S.F. RAIN LOAD) EQUALS 53.6 P.S.F. SPECIFIED ROOF LIVE LOAD CSI: TC=0.53/1.00 (D-M:1) , BC=0.22/1.00 (F-L:1) , WB=0.12/1.00 (C-H:1) , SSI=0.31/1.00 (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 = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.87 (F) (INPUT = 0.90) JSI METAL= 0.21 (I) (INPUT = 1.00)									
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG																																																																																																																																																																																																																																							
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E	252	0	252	0	17-6-6 (5-5-3)	17-6-6																																																																																																																																																																																																																																							
H	801	0	801	0	17-6-6 (5-5-3)	17-6-6																																																																																																																																																																																																																																							
I	1010	0	1010	0	17-6-6 (5-5-3)	17-6-6																																																																																																																																																																																																																																							
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PLATES (table is in inches) <table><tr><th>JT</th><th>TYPE</th><th>PLATES</th><th>W</th><th>LEN</th><th>Y</th><th>X</th></tr><tr><td>A</td><td>TBM1-h</td><td>MT20</td><td>3.0</td><td>4.0</td><td></td><td></td></tr><tr><td>B</td><td>TMW+w</td><td>MT20</td><td>2.0</td><td>5.0</td><td></td><td></td></tr><tr><td>C</td><td>TTW+p</td><td>MT20</td><td>3.0</td><td>4.0</td><td></td><td></td></tr><tr><td>D</td><td>TMW+w</td><td>MT20</td><td>2.0</td><td>5.0</td><td></td><td></td></tr><tr><td>E</td><td>TBM1-h</td><td>MT20</td><td>3.0</td><td>4.0</td><td></td><td></td></tr><tr><td>F, H, I</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>F</td><td>BMW1+w</td><td>MT20</td><td>1.5</td><td>3.0</td><td></td><td></td></tr><tr><td>G</td><td>BS-t</td><td>MT20</td><td>3.0</td><td>4.0</td><td></td><td></td></tr></table>							JT	TYPE	PLATES	W	LEN	Y	X	A	TBM1-h	MT20	3.0	4.0			B	TMW+w	MT20	2.0	5.0			C	TTW+p	MT20	3.0	4.0			D	TMW+w	MT20	2.0	5.0			E	TBM1-h	MT20	3.0	4.0			F, H, I							F	BMW1+w	MT20	1.5	3.0			G	BS-t	MT20	3.0	4.0			TOTAL WEIGHT = 46 lb [M]																																																																																																																																																																							
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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
18-0164	V02	1	1	TRUSS DESC.	



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - C 2x4 No.2 SPF C - E 2x4 No.2 SPF A - E 2x4 No.2 SPF ALL WEBS 2x4 No.2 SPF DRY: SEASONED LUMBER.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><th rowspan="2">JT</th><th colspan="2">FACTORED GROSS REACTION</th><th colspan="2">MAXIMUM FACTORED GROSS REACTION</th><th rowspan="2">INPUT BRG</th><th rowspan="2">REQRD BRG</th></tr><tr><th>VERT</th><th>HORZ</th><th>DOWN</th><th>HORZ</th></tr><tr><td>A</td><td>162</td><td>0</td><td>162</td><td>0</td><td>0</td><td>13-6-6 (13-5-3 13-6-6</td></tr><tr><td>E</td><td>162</td><td>0</td><td>162</td><td>0</td><td>0</td><td>13-6-6 (13-5-3 13-6-6</td></tr><tr><td>G</td><td>626</td><td>0</td><td>626</td><td>0</td><td>0</td><td>13-6-6 (13-5-3 13-6-6</td></tr><tr><td>H</td><td>805</td><td>0</td><td>805</td><td>0</td><td>0</td><td>13-6-6 (13-5-3 13-6-6</td></tr><tr><td>F</td><td>805</td><td>0</td><td>805</td><td>0</td><td>0</td><td>13-6-6 (13-5-3 13-6-6</td></tr></table> VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH UNFACTORED REACTIONS <table><tr><th rowspan="2">JT</th><th rowspan="2">1ST LCASE COMBINED</th><th colspan="3">MAX./MIN. COMPONENT REACTIONS</th><th rowspan="2">WIND</th><th rowspan="2">DEAD</th><th rowspan="2">SOIL</th></tr><tr><th>SNOW</th><th>LIVE</th><th>PERM.LIVE</th></tr><tr><td>A</td><td>112</td><td>91/ 0</td><td>0/ 0</td><td>0/ 0</td><td>0/ 0</td><td>21/ 0</td><td>0/ 0</td></tr><tr><td>E</td><td>112</td><td>91/ 0</td><td>0/ 0</td><td>0/ 0</td><td>0/ 0</td><td>21/ 0</td><td>0/ 0</td></tr><tr><td>G</td><td>433</td><td>340/ 0</td><td>0/ 0</td><td>0/ 0</td><td>0/ 0</td><td>93/ 0</td><td>0/ 0</td></tr><tr><td>H</td><td>553</td><td>459/ 0</td><td>0/ 0</td><td>0/ 0</td><td>0/ 0</td><td>94/ 0</td><td>0/ 0</td></tr><tr><td>F</td><td>553</td><td>459/ 0</td><td>0/ 0</td><td>0/ 0</td><td>0/ 0</td><td>94/ 0</td><td>0/ 0</td></tr></table> BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) A, E, G, 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. LOADING TOTAL LOAD CASES: (4) <table><tr><th colspan="5">CHORDS</th><th colspan="5">WEBS</th></tr><tr><th rowspan="2">MEMB.</th><th rowspan="2">MAX. FACTORED FORCE (LBS)</th><th rowspan="2">FACTORED VERT. LOAD (PLF)</th><th rowspan="2">LC1 MAX</th><th rowspan="2">MAX. UNBRACED LENGTH</th><th rowspan="2">MEMB.</th><th colspan="2">MAX. FACTORED</th></tr><tr><th>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>A- J</td><td>-77 / 0</td><td>-173.2 -173.2</td><td>0.07 (1)</td><td>6.25</td><td>G- C</td><td>-553 / 0</td><td>0.07 (1)</td></tr><tr><td>J- B</td><td>0 / 14</td><td>-173.2 -173.2</td><td>0.38 (1)</td><td>10.00</td><td>H- B</td><td>-745 / 0</td><td>0.07 (1)</td></tr><tr><td>B- C</td><td>-42 / 0</td><td>-173.2 -173.2</td><td>0.38 (1)</td><td>6.25</td><td>F- D</td><td>-745 / 0</td><td>0.07 (1)</td></tr><tr><td>C- D</td><td>-42 / 0</td><td>-173.2 -173.2</td><td>0.38 (1)</td><td>6.25</td><td>I- J</td><td>0 / 13</td><td>0.00 (1)</td></tr><tr><td>D- L</td><td>0 / 14</td><td>-173.2 -173.2</td><td>0.38 (1)</td><td>10.00</td><td>K- L</td><td>0 / 13</td><td>0.00 (1)</td></tr><tr><td>L- E</td><td>-77 / 0</td><td>-173.2 -173.2</td><td>0.07 (1)</td><td>6.25</td><td></td><td></td><td></td></tr><tr><td>A- I</td><td>0 / 65</td><td>-17.5 -17.5</td><td>0.02 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>I- H</td><td>0 / 65</td><td>-17.5 -17.5</td><td>0.04 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>H- G</td><td>-2 / 14</td><td>-17.5 -17.5</td><td>0.06 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>G- F</td><td>-2 / 14</td><td>-17.5 -17.5</td><td>0.06 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>F- K</td><td>0 / 65</td><td>-17.5 -17.5</td><td>0.04 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>K- E</td><td>0 / 65</td><td>-17.5 -17.5</td><td>0.02 (1)</td><td>10.00</td><td></td><td></td><td></td></tr></table>										JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG	VERT	HORZ	DOWN	HORZ	A	162	0	162	0	0	13-6-6 (13-5-3 13-6-6	E	162	0	162	0	0	13-6-6 (13-5-3 13-6-6	G	626	0	626	0	0	13-6-6 (13-5-3 13-6-6	H	805	0	805	0	0	13-6-6 (13-5-3 13-6-6	F	805	0	805	0	0	13-6-6 (13-5-3 13-6-6	JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS			WIND	DEAD	SOIL	SNOW	LIVE	PERM.LIVE	A	112	91/ 0	0/ 0	0/ 0	0/ 0	21/ 0	0/ 0	E	112	91/ 0	0/ 0	0/ 0	0/ 0	21/ 0	0/ 0	G	433	340/ 0	0/ 0	0/ 0	0/ 0	93/ 0	0/ 0	H	553	459/ 0	0/ 0	0/ 0	0/ 0	94/ 0	0/ 0	F	553	459/ 0	0/ 0	0/ 0	0/ 0	94/ 0	0/ 0	CHORDS					WEBS					MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED		FORCE (LBS)	MAX CSI (LC)	FR-TO		FROM TO			FR-TO			A- J	-77 / 0	-173.2 -173.2	0.07 (1)	6.25	G- C	-553 / 0	0.07 (1)	J- B	0 / 14	-173.2 -173.2	0.38 (1)	10.00	H- B	-745 / 0	0.07 (1)	B- C	-42 / 0	-173.2 -173.2	0.38 (1)	6.25	F- D	-745 / 0	0.07 (1)	C- D	-42 / 0	-173.2 -173.2	0.38 (1)	6.25	I- J	0 / 13	0.00 (1)	D- L	0 / 14	-173.2 -173.2	0.38 (1)	10.00	K- L	0 / 13	0.00 (1)	L- E	-77 / 0	-173.2 -173.2	0.07 (1)	6.25				A- I	0 / 65	-17.5 -17.5	0.02 (1)	10.00				I- H	0 / 65	-17.5 -17.5	0.04 (4)	10.00				H- G	-2 / 14	-17.5 -17.5	0.06 (4)	10.00				G- F	-2 / 14	-17.5 -17.5	0.06 (4)	10.00				F- K	0 / 65	-17.5 -17.5	0.04 (4)	10.00				K- E	0 / 65	-17.5 -17.5	0.02 (1)	10.00				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 53.6 PSF DL = 5.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 65.6 PSF SPACING = 24.0 IN./C/C THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 89.9 P.S.F. G.S.L. PLUS 4.2 P.S.F. RAIN LOAD) EQUALS 53.6 P.S.F. SPECIFIED ROOF LIVE LOAD CSI: TC=0.38/1.00 (D-L:1) , BC=0.06/1.00 (G-H:4) , WB=0.07/1.00 (D-F: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 = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.77 (F) (INPUT = 0.90) JSI METAL= 0.18 (H) (INPUT = 1.00)				
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG																																																																																																																																																																																																																																										
	VERT	HORZ	DOWN	HORZ																																																																																																																																																																																																																																												
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E	162	0	162	0	0	13-6-6 (13-5-3 13-6-6																																																																																																																																																																																																																																										
G	626	0	626	0	0	13-6-6 (13-5-3 13-6-6																																																																																																																																																																																																																																										
H	805	0	805	0	0	13-6-6 (13-5-3 13-6-6																																																																																																																																																																																																																																										
F	805	0	805	0	0	13-6-6 (13-5-3 13-6-6																																																																																																																																																																																																																																										
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		SNOW	LIVE	PERM.LIVE																																																																																																																																																																																																																																												
A	112	91/ 0	0/ 0	0/ 0	0/ 0	21/ 0	0/ 0																																																																																																																																																																																																																																									
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G	433	340/ 0	0/ 0	0/ 0	0/ 0	93/ 0	0/ 0																																																																																																																																																																																																																																									
H	553	459/ 0	0/ 0	0/ 0	0/ 0	94/ 0	0/ 0																																																																																																																																																																																																																																									
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FR-TO		FROM TO			FR-TO																																																																																																																																																																																																																																											
A- J	-77 / 0	-173.2 -173.2	0.07 (1)	6.25	G- C	-553 / 0	0.07 (1)																																																																																																																																																																																																																																									
J- B	0 / 14	-173.2 -173.2	0.38 (1)	10.00	H- B	-745 / 0	0.07 (1)																																																																																																																																																																																																																																									
B- C	-42 / 0	-173.2 -173.2	0.38 (1)	6.25	F- D	-745 / 0	0.07 (1)																																																																																																																																																																																																																																									
C- D	-42 / 0	-173.2 -173.2	0.38 (1)	6.25	I- J	0 / 13	0.00 (1)																																																																																																																																																																																																																																									
D- L	0 / 14	-173.2 -173.2	0.38 (1)	10.00	K- L	0 / 13	0.00 (1)																																																																																																																																																																																																																																									
L- E	-77 / 0	-173.2 -173.2	0.07 (1)	6.25																																																																																																																																																																																																																																												
A- I	0 / 65	-17.5 -17.5	0.02 (1)	10.00																																																																																																																																																																																																																																												
I- H	0 / 65	-17.5 -17.5	0.04 (4)	10.00																																																																																																																																																																																																																																												
H- G	-2 / 14	-17.5 -17.5	0.06 (4)	10.00																																																																																																																																																																																																																																												
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K- E	0 / 65	-17.5 -17.5	0.02 (1)	10.00																																																																																																																																																																																																																																												

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
18-0164	V03	1	1	TRUSS DESC.	



DRWG NO.

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TOTAL WEIGHT = 12 lb

[M]

DESCR.
SPF
SPF
SPF
SPF

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TBM1-h	MT20	3.0	4.0		
B	TTW+p	MT20	3.0	4.0		
C	TBM1-h	MT20	3.0	4.0		
D	BMW1+w	MT20	1.5	3.0		

BEARINGS

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT IN-SX	IN-SX
A	166	0	166	0	0	5-5-3
C	166	0	166	0	0	5-5-3
D	704	0	704	0	0	5-5-3

1ST LCASE	MAX./MIN. COMPONENT REACTIONS
1	1
2	2
3	3
4	4
5	5
6	6
7	7
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10	10
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97	97
98	98
99	99
100	100

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
A	114	94 / 0	0 / 0	0 / 0	0 / 0	21 / 0	0 / 0
C	114	94 / 0	0 / 0	0 / 0	0 / 0	21 / 0	0 / 0
D	484	395 / 0	0 / 0	0 / 0	0 / 0	89 / 0	0 / 0

BRACING

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	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX CSI (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
A - F	0 / 185	-173.2	-173.2 0.09 (1)	10.00	D - B	-432 / 0	0.04 (1)
F - B	0 / 200	-173.2	-173.2 0.11 (1)	10.00	E - F	-191 / 0	0.00 (1)
B - H	0 / 200	-173.2	-173.2 0.11 (1)	10.00	G - H	-191 / 0	0.00 (1)
H - C	0 / 185	-173.2	-173.2 0.09 (1)	10.00			
A - E	-191 / 0	-17.5	-17.5 0.12 (1)	6.25			
E - D	-181 / 0	-17.5	-17.5 0.13 (1)	6.25			
D - G	-181 / 0	-17.5	-17.5 0.13 (1)	6.25			
G - C	-191 / 0	-17.5	-17.5 0.12 (1)	6.25			

SPECIFIED LOADS:

TOP	CH.	LL	=	53.6	PSF
		DL	=	5.0	PSF
BOT	CH.	LL	=	0.0	PSF
		DL	=	7.0	PSF
TOTAL LOAD			=	65.6	PSF

JSI GRIP= 0.45 (D) (INPUT = 0.90)
JSI METAL= 0.11 (D) (INPUT = 1.00)