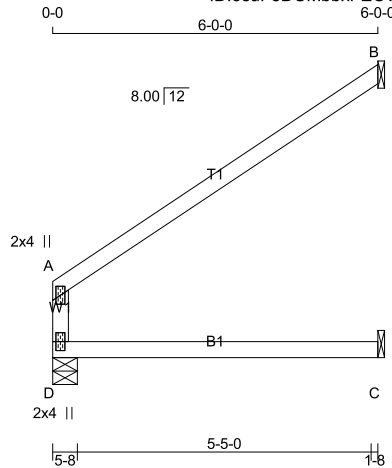


JOB NAME	CORPORATION OF THE TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-099	TRUE COPY OF PERMIT NO. 05A Nov 03 2023 PER: <i>C. Morte</i> CHIEF BUILDING OFFICIAL	7	1	TRUSS DESC.	

MHP 23032

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 14 09:32:21 2023 Page 1
ID: 3sur8DUMobxFEOWsk3nNizALn9-bl1q15GJ?DO870_TVNT4x0OaV6wbx7eLwc1PgiiyCQO

Scale = 1:42.5



TOTAL WEIGHT = 7 X 16 = 115 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	2.0	4.0		
D	BMV1+p	MT20	2.0	4.0		

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

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
D	413	0	413	0
B	324	0	324	0
C	89	0	89	0

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) B , C

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN.	COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
D	289	209 / 0	0 / 0	0 / 0	0 / 0	80 / 0	0 / 0
B	222	186 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0
C	67	23 / 0	0 / 0	0 / 0	0 / 0	44 / 0	0 / 0

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

BRACINGTOP 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)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED	FACTORED		MEMB.	MAX. FACTORED		
	FORCE	VERT. LOAD	LC1 MAX		FORCE	MAX	
	(LBS)	(PLF)	CSI (LC)		(LBS)	CSI (LC)	
FR-TO		FROM	TO	LENGTH	FR-TO		
D - A	-393 / 0	0.0	0.0	0.24 (1)	7.81		
A - B	-19 / 0	-119.4	-119.4	0.61 (1)	6.25		
D - C	0 / 0	-18.2	-18.2	0.30 (1)	10.00		

DESIGN CRITERIA**SPECIFIED LOADS:**

TOP CH.	LL =	34.8	PSF
	DL =	6.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.3	PSF
TOTAL LOAD	=	48.1	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 , NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 971 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 463 (0.16")CSI: TC=0.61/0.97 (A-B:1) , BC=0.30/0.97 (C-D:1) ,
WB=0.00/0.97 (n/a:0) , SSI=0.25/1.00 (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)	(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= 0.24 (A) (INPUT = 0.90)
JSI METAL= 0.20 (A) (INPUT = 1.00)

JULY 14, 2023

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



JOB NAMECORPORATION OF THE TRUSS NAMETRUE COPYIM0723-099 OF PERMIT PLANSNov 03 2023PER:CHIEF BUILDING OFFICIAL

MHP 23032

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 14 09:32:22 2023 Page 1ID:3stuf8DUMbbxFEOWsk3nNizALn9-3VaCFRGxmXW?cAZg24_JUDxhwWDYgSxU9GmzC8yyCQN

QUANTITY1PLYTRUSS DESC.

Scale = 1:63.0

LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER DESCR.
A - D 2x4 DRY No.2 SPF
D - G 2x4 DRY No.2 SPF
G - I 2x4 DRY No.2 SPF
J - L 2x4 DRY No.2 SPF
R - B 2x4 DRY No.2 SPF
R - N 2x4 DRY No.2 SPF
N - L 2x4 DRY No.2 SPF
L - J 2x4 DRY No.2 SPF

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER
BEARINGS
FACTORED MAXIMUM FACTORED INPUT REQ'D
GROSS REACTION GROSS REACTION BRG BRG
JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX
J 2191 0 2191 0 0 MECHANICAL
R 2355 0 2355 0 0 5-8 4-3

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT J. MINIMUM BEARING LENGTH AT JOINT J = 3-8.

UNFACTORED REACTIONS
1ST LCASE MAX./MIN. COMPONENT REACTIONS
JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL
J 1531 1108 / 0 0 / 0 0 / 0 0 / 0 0 / 0
R 1643 1204 / 0 0 / 0 0 / 0 440 / 0 0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.08 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

2x4 DRY SPF No.2 T-BRACE AT I-J, E-M, H-K

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 MAX. FACTORED MEMB. FORCE (LBS) FACTORED VERT. LOAD (PLF) MAX. UNBRAC LENGTH FR-TO MAX. MEMB. FORCE (LBS) WEBS MAX. FACTORED MEMB. FORCE (LBS) FACTORED CSI (LC)
FR-TO FROM TO
A-B 0 / 45 -119.4 -119.4 0.16 (1) 10.00 Q-C -491 / 0 0.13 (1)
B-C -2507 / 0 -119.4 -119.4 0.42 (1) 3.91 C-P -88 / 0 0.04 (1)
C-D -2495 / 0 -119.4 -119.4 0.41 (1) 3.92 P-D 0 / 160 0.04 (4)
D-E -2744 / 0 -119.4 -119.4 0.89 (1) 3.08 D-O 0 / 1018 0.23 (1)
E-F -2584 / 0 -119.4 -119.4 0.85 (1) 3.19 O-E -632 / 0 0.48 (1)
F-G -2584 / 0 -119.4 -119.4 0.85 (1) 3.19 E-M -237 / 0 0.14 (1)
G-H -2584 / 0 -119.4 -119.4 0.85 (1) 3.19 M-F -650 / 0 0.49 (1)
H-I -1737 / 0 -119.4 -119.4 0.74 (1) 3.94 M-H 0 / 1254 0.28 (1)
I-J -2147 / 0 0.0 0.0 0.53 (1) 7.81 K-H -1738 / 0 0.55 (1)
R-B -2318 / 0 0.0 0.0 0.24 (1) 5.53 K-I 0 / 2546 0.57 (1)
Q 0 / 0 -18.2 -18.2 0.07 (4) 10.00 B-Q 0 / 2182 0.49 (1)
R-Q 0 / 0 -18.2 -18.2 0.40 (1) 10.00
P-O 0 / 2049 -18.2 -18.2 0.39 (1) 10.00
O-N 0 / 2745 -18.2 -18.2 0.51 (1) 10.00
N-M 0 / 2745 -18.2 -18.2 0.51 (1) 10.00
M-L 0 / 1737 -18.2 -18.2 0.36 (1) 10.00
L-K 0 / 1737 -18.2 -18.2 0.36 (1) 10.00
K-J 0 / 0 -18.2 -18.2 0.16 (4) 10.00

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 48.1 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 , NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
ALLOWABLE DEFL.(TL)= L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.26")

CSI: TC=0.89/0.97 (D-E:1), BC=0.51/0.97 (M-O:1), WB=0.57/0.97 (I-K:1), SSI=0.34/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

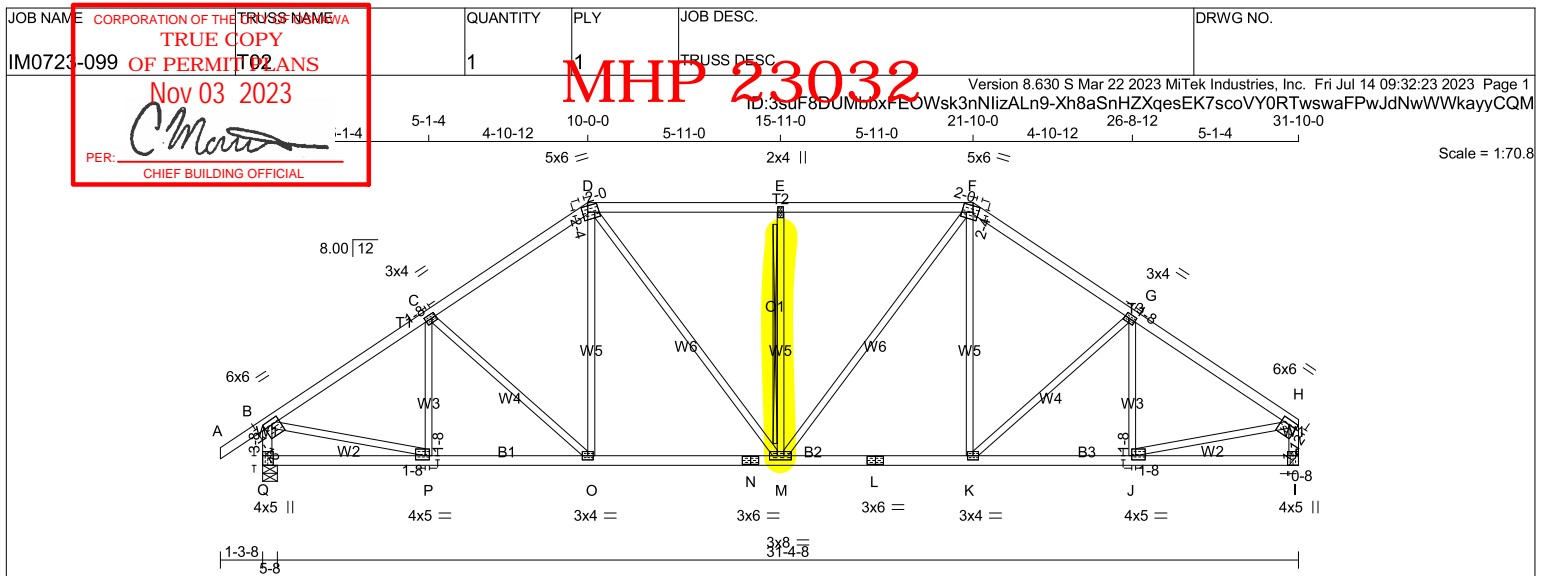
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (K) (INPUT = 0.90)
JSI METAL= 0.83 (N) (INPUT = 1.00)

TOTAL WEIGHT = 142 lb [M]

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT

**LUMBER**

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
F - H	2x4	DRY	No.2	SPF
Q - B	2x4	DRY	No.2	SPF
I - H	2x4	DRY	No.2	SPF
Q - N	2x4	DRY	No.2	SPF
N - L	2x4	DRY	No.2	SPF
L - I	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	6.0	6.0	1.75	3.00
C	TMVW-t	MT20	3.0	4.0	1.50	1.50
D	TTWW-m	MT20	5.0	6.0	2.25	2.00
E	TMVW-w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	6.0	2.25	2.00
G	TMVW-t	MT20	3.0	4.0	1.50	1.50
H	TMVW-t	MT20	6.0	6.0	1.75	Edge
I	BMV1+t	MT20	4.0	5.0	Edge	0.50
J	BMVW-t	MT20	4.0	5.0	1.50	1.50
K	BMVW-t	MT20	3.0	4.0		
L	BS-t	MT20	3.0	6.0		
M	BMVW-t	MT20	3.0	8.0		
N	BS-t	MT20	3.0	6.0		
O	BMVW-t	MT20	3.0	4.0		
P	BMVW-t	MT20	4.0	5.0	1.50	1.50
Q	BMV1+t	MT20	4.0	5.0	3.50	

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	HORZ	BRG	BRG	IN-SX	IN-SX
Q	2355	0	2355	0	0	5-8	4-3		
I	2191	0	2191	0	0	MECHANICAL			

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT I. MINIMUM BEARING LENGTH AT JOINT I = 3-8.

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS					
Q	1643	1204 / 0	0 / 0	0 / 0	0 / 0	440 / 0	0 / 0	
I	1531	1108 / 0	0 / 0	0 / 0	0 / 0	423 / 0	0 / 0	

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.72 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 E-M

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)

C H O R D S					W E B S				
MAX. FACTORED		FACTORED			MAX. FACTORED		FACTORED		
MEMB.	FORCE	VERT. LOAD	LC1	MAX	MAX.	MEMB.	MAX. FORCE	MAX	
	(LBS)	(PLF)		CSI (LC)	UNBRACED		(LBS)	CSI (LC)	
FR-TO		FROM	TO		LENGTH	FR-TO			
A-B	0 / 45	-119.4	-119.4	0.16 (1)	10.00	P-C	-368 / 0	0.13 (1)	
B-C	-2581 / 0	-119.4	-119.4	0.49 (1)	3.80	C-O	-323 / 0	0.27 (1)	
C-D	-2373 / 0	-119.4	-119.4	0.46 (1)	3.96	O-D	0 / 319	0.07 (1)	
D-E	-2313 / 0	-119.4	-119.4	0.62 (1)	3.72	D-M	0 / 611	0.14 (1)	
E-F	-2313 / 0	-119.4	-119.4	0.62 (1)	3.72	M-E	-866 / 0	0.40 (1)	
F-G	-2373 / 0	-119.4	-119.4	0.46 (1)	3.96	M-F	0 / 611	0.14 (1)	
G-H	-2581 / 0	-119.4	-119.4	0.49 (1)	3.80	K-F	0 / 319	0.07 (1)	
Q-B	-2313 / 0	0.0	0.0	0.24 (1)	5.54	K-G	-323 / 0	0.27 (1)	
I-H	-2149 / 0	0.0	0.0	0.22 (1)	5.71	J-G	-368 / 0	0.13 (1)	
						B-P	0 / 2227	0.50 (1)	
Q-P	0 / 0	-18.2	-18.2	0.10 (4)	10.00	J-H	0 / 2227	0.50 (1)	
P-O	0 / 2179	-18.2	-18.2	0.41 (1)	10.00				
O-N	0 / 1943	-18.2	-18.2	0.37 (1)	10.00				
N-M	0 / 1943	-18.2	-18.2	0.37 (1)	10.00				
M-L	0 / 1943	-18.2	-18.2	0.37 (1)	10.00				
L-K	0 / 1943	-18.2	-18.2	0.37 (1)	10.00				
K-J	0 / 2179	-18.2	-18.2	0.41 (1)	10.00				
J-I	0 / 0	-18.2	-18.2	0.10 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 48.1 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.19")

CSI: TC=0.62/0.97 (D-E:1), BC=0.41/0.97 (O-P:1), WB=0.50/0.97 (H-J:1), SSI=0.34/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (B) (INPUT = 0.90)
JSI METAL= 0.68 (B) (INPUT = 1.00)



JULY 14, 2023

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



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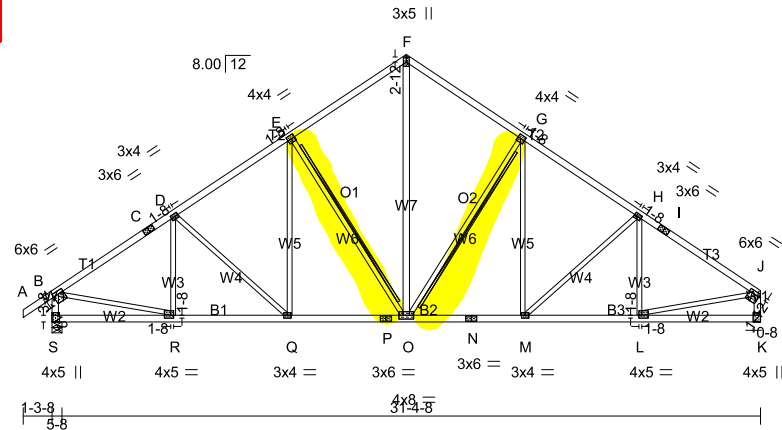
JOB NAME	CORPORATION OF THE TRUSS NAME TRUE COPY IM0723-099 OF PERMIT T04 ANS Nov 03 2023 PER: CHIEF BUILDING OFFICIAL	QUANTITY	1	PLY		JOB DESC.	TRUSS DESC. ID:3duf8DUMbdxFEOWsk3nNlizALn9-T4GLtSjP3SuaTdHFKDY06sYJUHAtquwrE?dpTyyCQK	DRWG NO.	
Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 14 09:32:25 2023 Page 1								Scale = 1:89.9	
TOTAL WEIGHT = 168 lb [M/J]									
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - C 2x4 DRY No.2 SPF C - F 2x4 DRY No.2 SPF F - G 2x4 DRY No.2 SPF G - J 2x4 DRY No.2 SPF J - K 2x4 DRY No.2 SPF U - B 2x4 DRY No.2 SPF L - K 2x4 DRY No.2 SPF U - Q 2x4 DRY No.2 SPF Q - O 2x4 DRY No.2 SPF O - L 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT R - F 2x4 DRY No.2 SPF P - P 2x4 DRY No.2 SPF P - G 2x4 DRY No.2 SPF DRY: SEASONED LUMBER.			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 U 2355 0 2355 0 0 5-8 4-3 L 2191 0 2191 0 0 MECHANICAL A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT L. MINIMUM BEARING LENGTH AT JOINT L = 3-8. UNFACTORED REACTIONS 1ST LCASE MAX. MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL U 1643 1204 / 0 0 / 0 0 / 0 440 / 0 0 / 0 L 1531 1108 / 0 0 / 0 0 / 0 423 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) U BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.91 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 E-R, H-P FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH. END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW LOADING TOTAL LOAD CASES: (4) CHORDS WEBS MAX. FACTORED MAX. FACTORED MAX. FACTORED MEMB. FORCE VERT. LOAD LC1 MAX. UNBRAC MEMB. FORCE MAX. (LBS) (PLF) CSI (LC) LENGTH FR-TO (LBS) CSI (LC) FR-TO FROM TO FR-TO A-B 0 / 45 -119.4 -119.4 0.16 (1) 10.00 T-D -394 / 0 0.12 (1) B-C -2556 / 0 -119.4 -119.4 0.42 (1) 3.91 D-S -190 / 0 0.13 (1) C-D -2556 / 0 -119.4 -119.4 0.42 (1) 3.91 S-E 0 / 216 0.05 (1) D-E -2419 / 0 -119.4 -119.4 0.36 (1) 4.07 E-R -683 / 0 0.40 (1) E-F -2005 / 0 -119.4 -119.4 0.34 (1) 4.41 R-F 0 / 645 0.10 (1) F-G -1652 / 0 -119.4 -119.4 0.26 (1) 4.86 F-P 0 / 4 0.00 (1) G-H -2007 / 0 -119.4 -119.4 0.34 (1) 4.41 P-G 0 / 650 0.10 (1) H-I -2419 / 0 -119.4 -119.4 0.36 (1) 4.07 P-H -680 / 0 0.40 (1) I-J -2556 / 0 -119.4 -119.4 0.42 (1) 3.91 N-H 0 / 212 0.05 (1) J-K -2556 / 0 -119.4 -119.4 0.42 (1) 3.91 N-I -191 / 0 0.13 (1) U-B -2316 / 0 0.0 0.0 0.24 (1) 5.53 M-I -393 / 0 0.12 (1) L-K -2152 / 0 0.0 0.0 0.22 (1) 5.71 B-T 0 / 2204 0.50 (1) M-K 0 / 2205 0.50 (1) U-T 0 / 0 -18.2 -18.2 0.09 (4) 10.00 T-S -18.2 -18.2 0.38 (1) 10.00 S-R -18.2 -18.2 0.36 (1) 10.00 R-Q 0 / 1651 -18.2 -18.2 0.31 (1) 10.00 Q-P 0 / 1651 -18.2 -18.2 0.31 (1) 10.00 P-O 0 / 2011 -18.2 -18.2 0.37 (1) 10.00 O-N 0 / 2011 -18.2 -18.2 0.37 (1) 10.00 N-M 0 / 2151 -18.2 -18.2 0.38 (1) 10.00 M-L 0 / 0 -18.2 -18.2 0.09 (4) 10.00				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 34.8 PSF DL = 6.0 PSF BOT CH. LL = 0.0 PSF DL = 7.3 PSF TOTAL LOAD = 48.1 PSF SPACING = 24.0 IN./C LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF BCBC 2018 , NBC-2019AE - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 (55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (1.06") CALCULATED VERT. DEFL.(LL)= L/ 999 (0.10") ALLOWABLE DEFL.(TL)= L/360 (1.06") CALCULATED VERT. DEFL.(TL)= L/ 999 (0.18") CSI: TC=0.42/0.97 (I-K:1) , BC=0.38/0.97 (M-N:1) , WB=0.50/0.97 (K-M:1) , SSI=0.22/1.00 (I-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= 0.90 (B) (INPUT = 0.90) JSI METAL= 0.67 (B) (INPUT = 1.00)		
<p>Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.</p> <p>JULY 14, 2023</p>			<p>READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.</p>						

JOB NAME	CORPORATION OF THE TRUSS NAME/VA	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-099	TRUE COPY OF PERMIT PLANS Nov 03 2023 PER: <i>C. Motta</i> CHIEF BUILDING OFFICIAL	1	1	TRUSS DESC.	

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ID: k8Banz67dQ8jC9gNSa3d6z92M6-yGqj4oKRqI0R5nsRHw3Fe35SI7b8cF044ukALvvyCQJ

Scale = 1:103.5



TOTAL WEIGHT = 152 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - F	2x4	DRY	No.2	SPF
F - I	2x4	DRY	No.2	SPF
I - J	2x4	DRY	No.2	SPF
S - B	2x4	DRY	No.2	SPF
K - J	2x4	DRY	No.2	SPF
S - P	2x4	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
O - F	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	UPLIFT
S	2355	0	2355	0
K	2191	0	2191	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT K. MINIMUM BEARING LENGTH AT JOINT K = 3-8.

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
S	1643	1204 / 0	0 / 0	0 / 0	0 / 0	440 / 0	0 / 0
K	1531	1108 / 0	0 / 0	0 / 0	0 / 0	423 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.74 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 G-O, E-O

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)

C H O R D S				W E B S			
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	0 / 45	-119.4 -119.4	0.16 (1)	10.00	O-F	0 / 1489	0.24 (1)
B-C	-2584 / 0	-119.4 -119.4	0.54 (1)	3.74	O-G	-821 / 0	0.63 (1)
C-D	-2584 / 0	-119.4 -119.4	0.54 (1)	3.74	M-G	0 / 305	0.07 (1)
D-E	-2331 / 0	-119.4 -119.4	0.45 (1)	4.03	M-H	-322 / 0	0.30 (1)
E-F	-1831 / 0	-119.4 -119.4	0.44 (1)	4.46	L-H	-326 / 6	0.12 (1)
F-G	-1831 / 0	-119.4 -119.4	0.44 (1)	4.46	E-O	-821 / 0	0.63 (1)
G-H	-2331 / 0	-119.4 -119.4	0.45 (1)	4.03	Q-E	0 / 305	0.07 (1)
H-I	-2584 / 0	-119.4 -119.4	0.54 (1)	3.74	D-Q	-322 / 0	0.30 (1)
I-J	-2584 / 0	-119.4 -119.4	0.54 (1)	3.74	R-D	-326 / 6	0.12 (1)
S-B	-2312 / 0	0.0	0.0	5.54	B-R	0 / 2220	0.50 (1)
K-J	-2148 / 0	0.0	0.0	5.71	L-J	0 / 2220	0.50 (1)
S-R	0 / 0	-18.2 -18.2	0.12 (4)	10.00			
R-Q	0 / 2178	-18.2 -18.2	0.40 (1)	10.00			
Q-P	0 / 1938	-18.2 -18.2	0.38 (1)	10.00			
P-O	0 / 1938	-18.2 -18.2	0.38 (1)	10.00			
O-N	0 / 1938	-18.2 -18.2	0.38 (1)	10.00			
N-M	0 / 1938	-18.2 -18.2	0.38 (1)	10.00			
M-L	0 / 2178	-18.2 -18.2	0.40 (1)	10.00			
L-K	0 / 0	-18.2 -18.2	0.12 (4)	10.00			

DESIGN CRITERIA**SPECIFIED LOADS:**

TOP CH.	LL	=	34.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD	=	48.1	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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.19")

CSI: TC=0.54/0.97 (H-J:1), BC=0.40/0.97 (L-M:1), WB=0.63/0.97 (E-O:1), SSI=0.25/1.00 (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 = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (B) (INPUT = 0.90)
JSI METAL= 0.68 (B) (INPUT = 1.00)

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	6.0	6.0	1.75	3.00
C	TS-t	MT20	3.0	6.0		
D	TMVW-t	MT20	3.0	4.0	1.50	1.50
E	TMVW-t	MT20	4.0	4.0	2.00	1.50
F	TTW+p	MT20	3.0	5.0	2.75	1.50
G	TMVW-t	MT20	4.0	4.0	2.00	1.50
H	TMVW-t	MT20	3.0	4.0	1.50	1.50
I	TS-t	MT20	3.0	6.0		
J	TMVW-t	MT20	6.0	6.0	1.75	Edge
K	BMV1+t	MT20	4.0	5.0	Edge	0.50
L	BMVW-t	MT20	4.0	5.0	1.50	1.50
M	BMVW-t	MT20	3.0	4.0		
N	BS-t	MT20	3.0	6.0		
O	BMVWW-t	MT20	4.0	8.0		
P	BS-t	MT20	3.0	6.0		
Q	BMVW-t	MT20	3.0	4.0		
R	BMVW-t	MT20	4.0	5.0	1.50	1.50
S	BMV1+t	MT20	4.0	5.0	3.50	

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



JULY 14, 2023

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



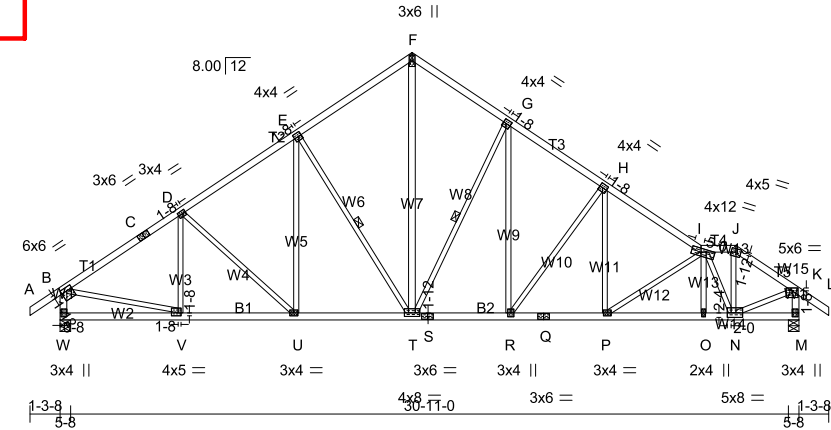
JOB NAME	CORPORATION OF THE TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-099	TRUE COPY OF PERMIT NO. 106 Nov 03 2023 PER: <i>C. M...</i> CHIEF BUILDING OFFICIAL	7	1	TRUSS DESC	

MHP 23032

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ID: 35uf8DUmbx3FEOWsk3nNiizALn9-QSO5i8K3b38HjXRdrdaUBHeerXwhLhZDIYUktLyyCQl

Scale = 1:99.3



TOTAL WEIGHT = 7 X 161 = 1127 lb

LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF			
C - F	2x4	DRY	No.2	SPF			
F - I	2x4	DRY	No.2	SPF			
I - J	2x4	DRY	No.2	SPF			
J - L	2x4	DRY	No.2	SPF			
W - B	2x4	DRY	No.2	SPF			
M - K	2x4	DRY	No.2	SPF			
W - S	2x4	DRY	No.2	SPF			
S - Q	2x4	DRY	No.2	SPF			
Q - M	2x4	DRY	No.2	SPF			
ALL WEBS	2x3	DRY	No.2	SPF			
EXCEPT							
T - F	2x4	DRY	No.2	SPF			

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW-t	MT20	6.0	6.0	1.75	3.00
C TS-t	MT20	3.0	6.0		
D TMVW-t	MT20	3.0	4.0	1.50	1.50
E, G, H					
E TMVW-t	MT20	4.0	4.0	2.00	1.50
F TTVW-p	MT20	3.0	6.0		
I TTVWW-m	MT20	4.0	12.0	2.00	5.00
J TTVW-m	MT20	4.0	5.0	1.75	2.50
K TMVW-p	MT20	5.0	6.0	1.50	3.00
M BMV1+p	MT20	3.0	4.0	2.00	
N BMVWW-t	MT20	5.0	8.0	2.25	2.00
O BMVW-w	MT20	2.0	4.0		
P BMVW-t	MT20	3.0	4.0		
Q BS-t	MT20	3.0	6.0		
R BMVW-t	MT20	3.0	4.0		
S BS-t	MT20	3.0	6.0		
T BMVWW-t	MT20	4.0	8.0	1.75	4.00
U BMVW-t	MT20	3.0	4.0		
V BMVW-t	MT20	4.0	5.0	1.50	1.50
W BMV1+p	MT20	3.0	4.0	2.00	0.50

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	IN-SX
W	2355	0	2355	0	0	5-8
M	2355	0	2355	0	0	4-3

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
W	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
W	1643	1204 / 0	0 / 0	0 / 0	0 / 0	440 / 0	0 / 0
M	1643	1204 / 0	0 / 0	0 / 0	0 / 0	440 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.79 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 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF E-T, G-T. DBS = 20-0-0. CBF = 124 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE (PER BRACE). FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

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			
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 / 45	-119.4 -119.4	0.16 (1)	10.00	V-D	-351 / 0		0.12 (1)
B-C	-2575 / 0	-119.4 -119.4	0.49 (1)	3.81	D-U	-273 / 0		0.23 (1)
C-D	-2575 / 0	-119.4 -119.4	0.49 (1)	3.81	U-E	0 / 268		0.06 (1)
D-E	-2367 / 0	-119.4 -119.4	0.41 (1)	4.05	E-T	-763 / 0		0.46 (1)
E-F	-1905 / 0	-119.4 -119.4	0.40 (1)	4.43	T-F	0 / 1636		0.26 (1)
F-G	-1900 / 0	-119.4 -119.4	0.27 (1)	4.59	T-G	-995 / 0		0.62 (1)
G-H	-2403 / 0	-119.4 -119.4	0.28 (1)	4.16	R-G	0 / 644		0.14 (1)
H-I	-2888 / 0	-119.4 -119.4	0.34 (1)	3.79	R-H	-725 / 0		0.68 (1)
I-J	-1938 / 0	-119.4 -119.4	0.07 (1)	4.77	P-H	0 / 320		0.07 (1)
J-K	-2290 / 0	-119.4 -119.4	0.17 (1)	4.36	P-I	-389 / 0		0.17 (1)
K-L	0 / 45	-119.4 -119.4	0.16 (1)	10.00	O-I	0 / 47		0.02 (4)
W-B	-2314 / 0	0.0 0.0	0.24 (1)	5.54	I-N	-1867 / 0		0.37 (1)
M-K	-2333 / 0	0.0 0.0	0.24 (1)	5.52	N-J	0 / 1027		0.23 (1)
					B-V	0 / 2216		0.50 (1)
					N-K	0 / 2036		0.46 (1)
W-V	0 / 0	-18.2 -18.2	0.11 (4)	10.00				
V-U	0 / 2169	-18.2 -18.2	0.39 (1)	10.00				
U-T	0 / 1968	-18.2 -18.2	0.38 (1)	10.00				
T-S	0 / 1999	-18.2 -18.2	0.39 (1)	10.00				
S-R	0 / 1999	-18.2 -18.2	0.39 (1)	10.00				
R-Q	0 / 2429	-18.2 -18.2	0.43 (1)	10.00				
Q-P	0 / 2429	-18.2 -18.2	0.43 (1)	10.00				
P-O	0 / 2748	-18.2 -18.2	0.51 (1)	10.00				
O-N	0 / 2748	-18.2 -18.2	0.49 (1)	10.00				
N-M	0 / 0	-18.2 -18.2	0.03 (4)	10.00				

DESIGN CRITERIA**SPECIFIED LOADS:**

TOP CH. LL = 34.8 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 48.1 PSF

SPACING = 24.0 IN. C/C

LOADING IN ALL FLAT SECTIONS 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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.23")

CSI: TC=0.49/0.97 (B-D:1), BC=0.51/0.97 (O-P:1), WB=0.68/0.97 (H-R:1), SSI=0.24/1.00 (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 = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



JULY 14, 2023

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



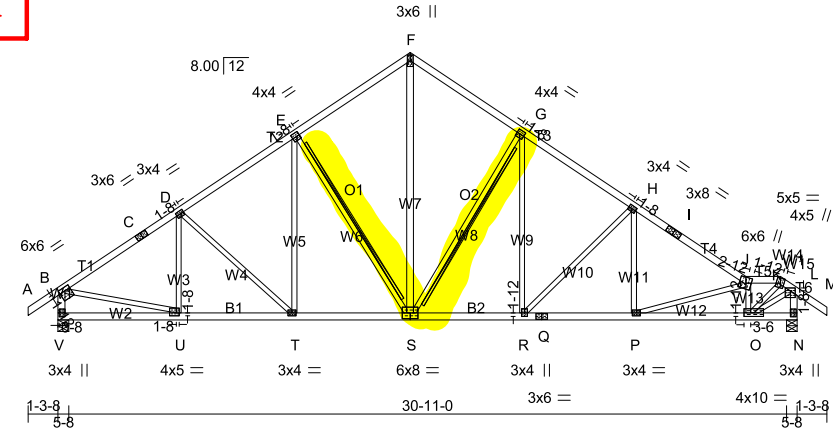
JOB NAME	CORPORATION OF THE TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-099	TRUE COPY OF PERMIT PLANS Nov 03 2023 PER: <i>C. Motta</i> CHIEF BUILDING OFFICIAL	1	1	TRUSS DESC	

MHP 23032

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ID: 3sur80UMbdxFEOWsk3nNliZAln9-ueyTVULiMNG8L50qPL5jUApCxFf48VNXCDHQoyyCQH

Scale = 1:99.3



TOTAL WEIGHT = 155 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - F	2x4	DRY	No.2
F - I	2x4	DRY	No.2
I - J	2x4	DRY	No.2
J - K	2x4	DRY	No.2
K - M	2x4	DRY	No.2
V - B	2x4	DRY	No.2
N - L	2x4	DRY	No.2
V - S	2x4	DRY	No.2
S - Q	2x4	DRY	No.2
Q - N	2x4	DRY	No.2
ALL WEBS EXCEPT S - F	2x3	DRY	No.2
	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	6.0	6.0	1.75	3.00
C	TS-t	MT20	3.0	6.0		
D	TMVW-t	MT20	3.0	4.0	1.50	1.50
E	TMVW-t	MT20	4.0	4.0	2.00	1.50
F	TTW+p	MT20	3.0	6.0		
G	TMVW-t	MT20	4.0	4.0	2.00	1.50
H	TMVW-t	MT20	3.0	4.0	1.50	1.50
I	TS-t	MT20	3.0	8.0		
J	TTW+m	MT20	6.0	6.0	3.00	2.75
K	TTW+m	MT20	4.0	5.0	Edge	1.75
L	TMVW-p	MT20	5.0	5.0	1.50	2.50
N	BMV1+p	MT20	3.0	4.0	2.00	
O	BMVWW-t	MT20	4.0	10.0	1.75	3.25
P	BMVWW-t	MT20	3.0	4.0		
Q	BS-t	MT20	3.0	6.0		
R	BMVWW-t	MT20	3.0	4.0	1.75	1.50
S	BSWWW-t	MT20	6.0	8.0		
T	BMVWW-t	MT20	3.0	4.0		
U	BMVWW-t	MT20	4.0	5.0	1.50	1.50
V	BMV1+p	MT20	3.0	4.0	2.00	0.50

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
V	2352	0	2352	0
N	2359	0	2359	0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. SNOW	MAX./MIN. LIVE	MAX./MIN. PERM. LIVE	WIND	DEAD	SOIL
V	1641	1202 / 0	0 / 0	0 / 0	0 / 0	439 / 0	0 / 0
N	1646	1206 / 0	0 / 0	0 / 0	0 / 0	440 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.56 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 E-S, G-S

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	0 / 45	-119.4 -119.4	0.16 (1)	U-D	-353 / 0	0.12 (1)	
B-C	-2570 / 0	-119.4 -119.4	0.49 (1)	D-T	-270 / 0	0.23 (1)	
C-D	-2570 / 0	-119.4 -119.4	0.49 (1)	T-E	0 / 282	0.06 (1)	
D-E	-2363 / 0	-119.4 -119.4	0.41 (1)	E-S	-774 / 0	0.53 (1)	
E-F	-1894 / 0	-119.4 -119.4	0.40 (1)	S-F	0 / 1593	0.26 (1)	
F-G	-1893 / 0	-119.4 -119.4	0.37 (1)	S-G	-1008 / 0	0.70 (1)	
G-H	-2490 / 0	-119.4 -119.4	0.39 (1)	R-G	0 / 580	0.13 (1)	
H-I	-3045 / 0	-119.4 -119.4	0.48 (1)	R-H	-692 / 0	0.59 (1)	
I-J	-3045 / 0	-119.4 -119.4	0.48 (1)	P-H	0 / 174	0.04 (4)	
J-K	-2372 / 0	-119.4 -119.4	0.09 (1)	P-J	-238 / 0	0.11 (1)	
K-L	-1979 / 0	-119.4 -119.4	0.16 (1)	O-J	-1993 / 0	0.29 (1)	
L-M	0 / 45	-119.4 -119.4	0.16 (1)	O-K	0 / 1367	0.31 (1)	
V-B	-2310 / 0	0.0	0.0	B-U	0 / 2211	0.50 (1)	
N-L	-2333 / 0	0.0	0.0	O-L	0 / 1797	0.40 (1)	
V-U	0 / 0	-18.2 -18.2	0.10 (4)				
U-T	0 / 2164	-18.2 -18.2	0.40 (1)				
T-S	0 / 1965	-18.2 -18.2	0.37 (1)				
S-R	0 / 2071	-18.2 -18.2	0.39 (1)				
R-Q	0 / 2563	-18.2 -18.2	0.45 (1)				
Q-P	0 / 2563	-18.2 -18.2	0.45 (1)				
P-O	0 / 2789	-18.2 -18.2	0.52 (1)				
O-N	0 / 0	-18.2 -18.2	0.05 (4)				

DESIGN CRITERIA**SPECIFIED LOADS:**

TOP CH.	LL =	34.8 PSF
	DL =	6.0 PSF
BOT CH.	LL =	0.0 PSF
	DL =	7.3 PSF
TOTAL LOAD	=	48.1 PSF

SPACING = 24.0 IN. C/C

LOADING IN ALL FLAT SECTIONS 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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.06")
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.13")
ALLOWABLE DEFL.(TL)= L/360 (1.06")
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.23")CSI: TC=0.49/0.97 (B-D:1), BC=0.52/0.97 (O-P:1),
WB=0.70/0.97 (G-S:1), SSI=0.24/1.00 (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 = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (B) (INPUT = 0.90)
JSI METAL= 0.72 (Q) (INPUT = 1.00)

JULY 14, 2023

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



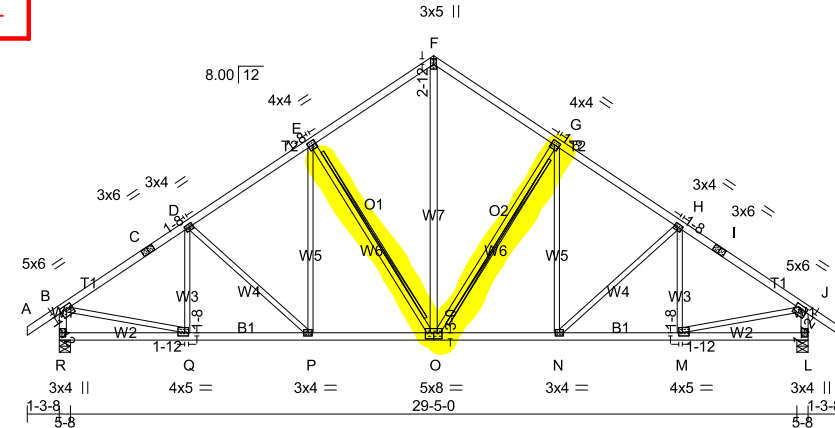
JOB NAME	CORPORATION OF THE TRUSS NAME/VA	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-099	TRUE COPY OF PERMIT PLANS Nov 03 2023 PER: <i>C. Motta</i> CHIEF BUILDING OFFICIAL	2	1	TRUSS DESC.	

MHP 23032

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ID:3suF8DUM6oxFEOWsk3nNliZALn9-MrVriqMK7gO?yFb0z2cyGij_ZKeApdAWmszqyEyyCQG

Scale = 1:93.3



TOTAL WEIGHT = 2 X 147 = 294 lb

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - F	2x4	DRY	No.2	SPF
F - I	2x4	DRY	No.2	SPF
I - K	2x4	DRY	No.2	SPF
R - B	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF
R - O	2x4	DRY	No.2	SPF
O - L	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
O - F	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	6.0	1.75	3.00
C	TS-t	MT20	3.0	6.0		
D	TMVW-t	MT20	3.0	4.0	1.50	1.50
E	TMVW-t	MT20	4.0	4.0	2.00	1.50
F	TTW+p	MT20	3.0	5.0	2.75	1.50
G	TMVW-t	MT20	4.0	4.0	2.00	1.50
H	TMVW-t	MT20	3.0	4.0	1.50	1.50
I	TS-t	MT20	3.0	6.0		
J	TMVW-t	MT20	5.0	6.0	1.75	3.00
L	BMV1+p	MT20	3.0	4.0		
M	BMVW-t	MT20	4.0	5.0	1.50	1.75
N	BMVW-t	MT20	3.0	4.0		
O	BSVWVW-t	MT20	5.0	8.0	3.00	4.00
P	BMVW-t	MT20	3.0	4.0		
Q	BMVW-t	MT20	4.0	5.0	1.50	1.75
R	BMV1+p	MT20	3.0	4.0		

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	UPLIFT
R	2252	0	2252	0
L	2252	0	2252	0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. SNOW	MIN. COMPONENT LIVE	PERM. LIVE	WIND	DEAD	SOIL
R	1571	1151 / 0	0 / 0	0 / 0	0 / 0	420 / 0	0 / 0
L	1571	1151 / 0	0 / 0	0 / 0	0 / 0	420 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.92 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 G-O, E-O

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	0 / 45	-119.4 -119.4	0.16 (1)	O-F	0 / 1405	0.23 (1)	
B-C	-2433 / 0	-119.4 -119.4	0.48 (1)	O-G	-786 / 0	0.54 (1)	
C-D	-2433 / 0	-119.4 -119.4	0.48 (1)	N-G	0 / 295	0.07 (1)	
D-E	-2208 / 0	-119.4 -119.4	0.40 (1)	N-H	-291 / 0	0.24 (1)	
E-F	-1732 / 0	-119.4 -119.4	0.39 (1)	M-H	-329 / 0	0.11 (1)	
F-G	-1732 / 0	-119.4 -119.4	0.39 (1)	E-O	-786 / 0	0.54 (1)	
G-H	-2208 / 0	-119.4 -119.4	0.40 (1)	P-E	0 / 295	0.07 (1)	
H-I	-2433 / 0	-119.4 -119.4	0.48 (1)	D-P	-291 / 0	0.24 (1)	
I-J	-2433 / 0	-119.4 -119.4	0.48 (1)	Q-D	-329 / 0	0.11 (1)	
J-K	0 / 45	-119.4 -119.4	0.16 (1)	B-Q	0 / 2095	0.47 (1)	
R-B	-2210 / 0	0.0	0.0	M-J	0 / 2095	0.47 (1)	
L-J	-2210 / 0	0.0	0.0				
R-Q	0 / 0	-18.2 -18.2	0.10 (4)				
Q-P	0 / 2051	-18.2 -18.2	0.38 (1)				
P-O	0 / 1836	-18.2 -18.2	0.35 (1)				
O-N	0 / 1836	-18.2 -18.2	0.35 (1)				
N-M	0 / 2051	-18.2 -18.2	0.38 (1)				
M-L	0 / 0	-18.2 -18.2	0.10 (4)				

DESIGN CRITERIA**SPECIFIED LOADS:**

TOP CH.	LL	=	34.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD		=	48.1	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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55% OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (1.01")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.10")
ALLOWABLE DEFL.(TL) = $L/360$ (1.01")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.18")

CSI: $TC=0.48/0.97$ (H-J:1), $BC=0.38/0.97$ (M-N:1),
 $WB=0.54/0.97$ (G-O:1), $SSI=0.24/1.00$ (H-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

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

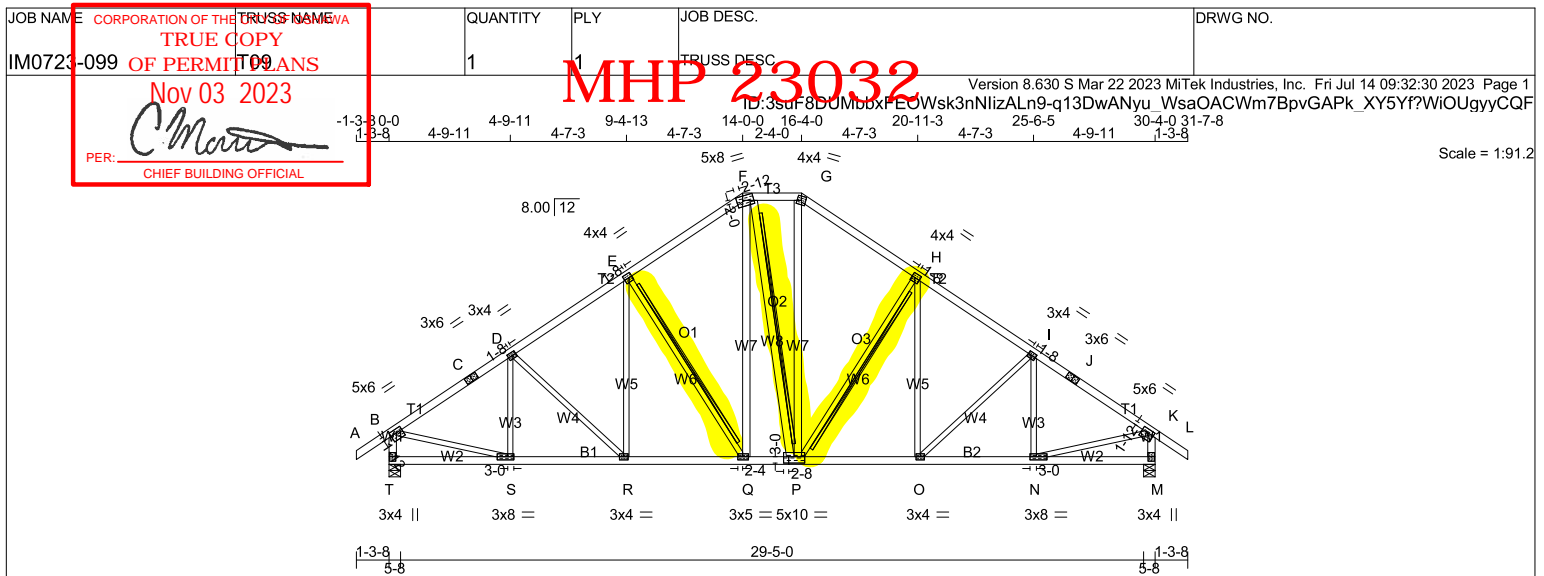
JSI GRIP= 0.90 (J) (INPUT = 0.90)
JSI METAL= 0.64 (B) (INPUT = 1.00)



JULY 14, 2023

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 166 lb

LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF			
C - F	2x4	DRY	No.2	SPF			
F - G	2x4	DRY	No.2	SPF			
G - J	2x4	DRY	No.2	SPF			
J - L	2x4	DRY	No.2	SPF			
T - B	2x4	DRY	No.2	SPF			
M - K	2x4	DRY	No.2	SPF			
T - P	2x4	DRY	No.2	SPF			
P - M	2x4	DRY	No.2	SPF			
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF			
Q - F	2x4	DRY	No.2	SPF			
F - P	2x4	DRY	No.2	SPF			
P - G	2x4	DRY	No.2	SPF			

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	6.0	1.75	3.00
C	TS-t	MT20	3.0	6.0		
D	TMVW-t	MT20	3.0	4.0	1.50	1.50
E	TMVW-t	MT20	4.0	4.0	2.00	1.50
F	TTWV-m	MT20	5.0	8.0	2.00	2.75
G	TTW-m	MT20	4.0	4.0		
H	TMVW-t	MT20	4.0	4.0	2.00	1.50
I	TMVW-t	MT20	3.0	4.0	1.50	1.50
J	TS-t	MT20	3.0	6.0		
K	TMVW-t	MT20	5.0	6.0	1.75	3.00
M	BMV1+p	MT20	3.0	4.0		
N	BMVW-t	MT20	3.0	8.0	1.50	3.00
O	BMVW-t	MT20	3.0	4.0		
P	BSWWW-t	MT20	5.0	10.0	3.00	2.50
Q	BMVW-t	MT20	3.0	5.0	1.50	2.25
R	BMVW-t	MT20	3.0	4.0		
S	BMVW-t	MT20	3.0	8.0	1.50	3.00
T	BMV1+p	MT20	3.0	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
T	2252	0	2252	0	0	5-8	3-13
M	2252	0	2252	0	0	5-8	3-13

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
T	1571	1151 / 0	0 / 0	0 / 0	0 / 0	420 / 0	0 / 0
M	1571	1151 / 0	0 / 0	0 / 0	0 / 0	420 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.01 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 E-Q, F-P, H-P

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3"
COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
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 / 45	-119.4	-119.4	0.16 (1)	10.00	S-D	-368 / 0	0.12 (1)	
B-C	-2417 / 0	-119.4	-119.4	0.41 (1)	4.01	D-R	-212 / 0	0.15 (1)	
C-D	-2417 / 0	-119.4	-119.4	0.41 (1)	4.01	R-E	0 / 232	0.05 (1)	
D-E	-2261 / 0	-119.4	-119.4	0.35 (1)	4.20	E-Q	-696 / 0	0.41 (1)	
E-F	-1838 / 0	-119.4	-119.4	0.33 (1)	4.58	Q-F	0 / 654	0.11 (1)	
F-G	-1510 / 0	-119.4	-119.4	0.11 (1)	5.22	F-P	-13 / 0	0.01 (4)	
G-H	-1829 / 0	-119.4	-119.4	0.33 (1)	4.59	P-G	0 / 641	0.10 (1)	
H-I	-2262 / 0	-119.4	-119.4	0.35 (1)	4.20	P-H	-701 / 0	0.41 (1)	
I-J	-2417 / 0	-119.4	-119.4	0.41 (1)	4.02	O-H	0 / 239	0.05 (1)	
J-K	-2417 / 0	-119.4	-119.4	0.41 (1)	4.02	O-I	-211 / 0	0.15 (1)	
K-L	0 / 45	-119.4	-119.4	0.16 (1)	10.00	N-I	-370 / 0	0.12 (1)	
T-B	-2213 / 0	0.0	0.0	0.23 (1)	5.65	B-S	0 / 2086	0.47 (1)	
M-K	-2212 / 0	0.0	0.0	0.23 (1)	5.65	N-K	0 / 2086	0.47 (1)	

T-S	0 / 0	-18.2	-18.2	0.09 (4)	10.00
S-R	0 / 2035	-18.2	-18.2	0.36 (1)	10.00
R-Q	0 / 1880	-18.2	-18.2	0.34 (1)	10.00
Q-P	0 / 1512	-18.2	-18.2	0.27 (1)	10.00
P-O	0 / 1881	-18.2	-18.2	0.35 (1)	10.00
O-N	0 / 2035	-18.2	-18.2	0.37 (1)	10.00
N-M	0 / 0	-18.2	-18.2	0.09 (4)	10.00

DESIGN CRITERIA**SPECIFIED LOADS:**

TOP CH.	LL	=	34.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD	=	48.1	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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (1.01")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.09")
ALLOWABLE DEFL.(TL) = $L/360$ (1.01")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.17")

CSI: TC=0.41/0.97 (B-D:1) , BC=0.37/0.97 (N-O:1)
WB=0.47/0.97 (B-S:1) , SSI=0.22/1.00 (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 = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (B) (INPUT = 0.90)
JSI METAL= 0.63 (B) (INPUT = 1.00)



JULY 14, 2023


READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



JOB NAME CORPORATION OF THE TRUSS NAME
IM0723-099 OF PERMIT PLANS

TRUSS NAME
MHP 23032

DATE
Nov 03 2023

PER: 
CHIEF BUILDING OFFICIAL

QUANTITY 1

PLY 1

JOB DESC. TRUSS DESC

DRWG NO.

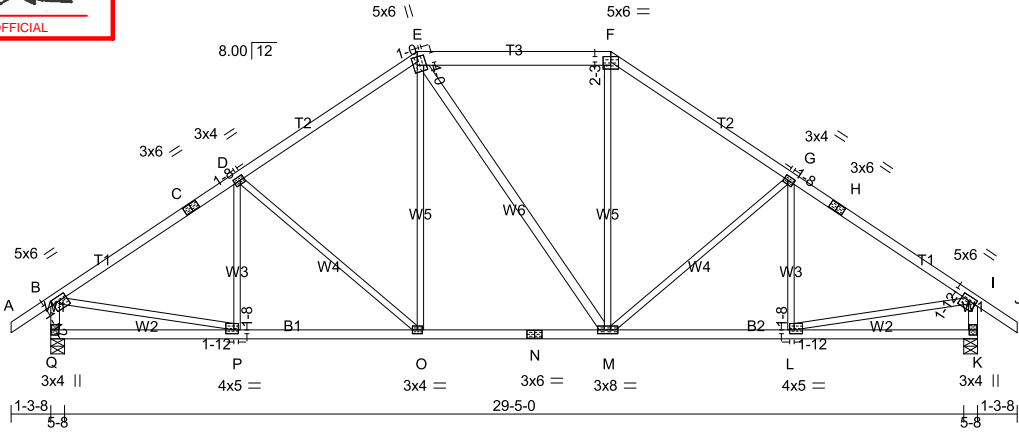
Version 8.630 S Mar 22 2023 Mitel Industries, Inc. Fri Jul 14 09:32:31 2023 Page 1

ID:3stf8DUMb0xFEOWsk3nNlIZALn9-IDdc8WNaflljCYIO4TfQL7oGR8J6HU5pDASx07yyCQE

6-1-4 6-1-4 5-10-12 12-0-0 6-4-0 18-4-0 5-10-12 24-2-12 6-1-4 30-4-0 31-7-8

1-3-8 1-3-8

Scale = 1:75.4



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
E - F	2x6	DRY	No.2
F - H	2x4	DRY	No.2
H - J	2x4	DRY	No.2
Q - B	2x4	DRY	No.2
K - I	2x4	DRY	No.2
Q - N	2x4	DRY	No.2
N - K	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2

EXCEPT

E - M 2x4 DRY No.2

DRY: SEASONED LUMBER.

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
Q	2252	0	2252	0	5-8	3-13
K	2252	0	2252	0	5-8	3-13

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
Q	1571	1151 / 0	0 / 0	0 / 0	0 / 0	420 / 0	0 / 0
K	1571	1151 / 0	0 / 0	0 / 0	0 / 0	420 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.54 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO				FR-TO			
A-B	0 / 45	-119.4	-119.4 0.16 (1)	10.00	P-D	-251 / 39	0.11 (1)
B-C	-2462 / 0	-119.4	-119.4 0.71 (1)	3.54	D-O	-546 / 0	0.71 (1)
C-D	-2462 / 0	-119.4	-119.4 0.71 (1)	3.54	O-E	0 / 465	0.10 (1)
D-E	-2056 / 0	-119.4	-119.4 0.64 (1)	3.91	E-M	0 / 1	0.00 (1)
E-F	-1680 / 0	-119.4	-119.4 0.32 (1)	5.66	M-F	0 / 466	0.10 (1)
F-G	-2057 / 0	-119.4	-119.4 0.64 (1)	3.91	M-G	-544 / 0	0.71 (1)
G-H	-2462 / 0	-119.4	-119.4 0.71 (1)	3.54	L-G	-252 / 38	0.11 (1)
H-I	-2462 / 0	-119.4	-119.4 0.71 (1)	3.54	B-P	0 / 2120	0.48 (1)
I-J	0 / 45	-119.4	-119.4 0.16 (1)	10.00	L-I	0 / 2120	0.48 (1)
Q-B	-2205 / 0	0.0	0.0 0.23 (1)	5.65			
K-I	-2204 / 0	0.0	0.0 0.23 (1)	5.65			
Q-P	0 / 0	-18.2	-18.2 0.15 (4)	10.00			
P-O	0 / 2088	-18.2	-18.2 0.40 (1)	10.00			
O-N	0 / 1679	-18.2	-18.2 0.35 (1)	10.00			
N-M	0 / 1679	-18.2	-18.2 0.35 (1)	10.00			
M-L	0 / 2088	-18.2	-18.2 0.41 (1)	10.00			
L-K	0 / 0	-18.2	-18.2 0.15 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 34.8 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.3 PSF

TOTAL LOAD = 48.1 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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.01")

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.09")

ALLOWABLE DEFL.(TL) = L/360 (1.01")

CALCULATED VERT. DEFL.(TL) = L/ 999 (0.17")

CSI: TC=0.71/0.97 (B-D:1) , BC=0.41/0.97 (L-M:1) , WB=0.71/0.97 (D-O:1) , SSI=0.29/1.00 (G-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) (PSI)	SHEAR (PLI)	SECTION (PLI)
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.


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

JSI METAL= 0.66 (B) (INPUT = 1.00)

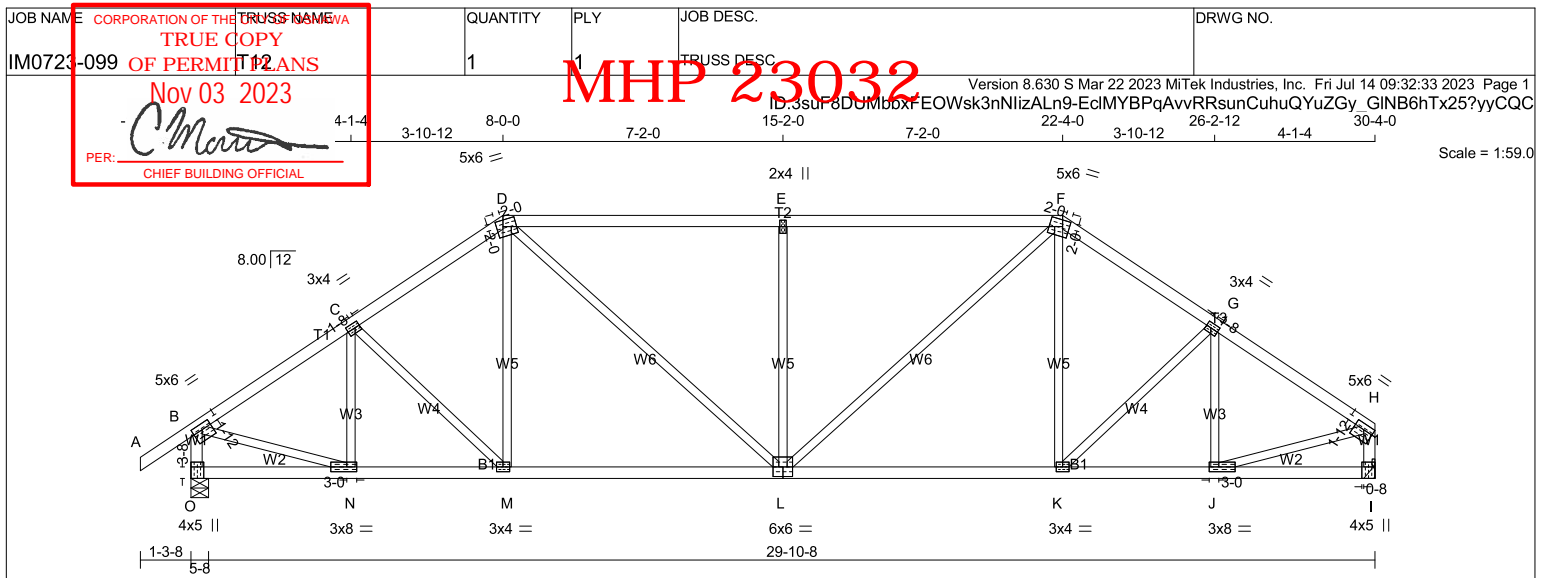


JULY 14, 2023

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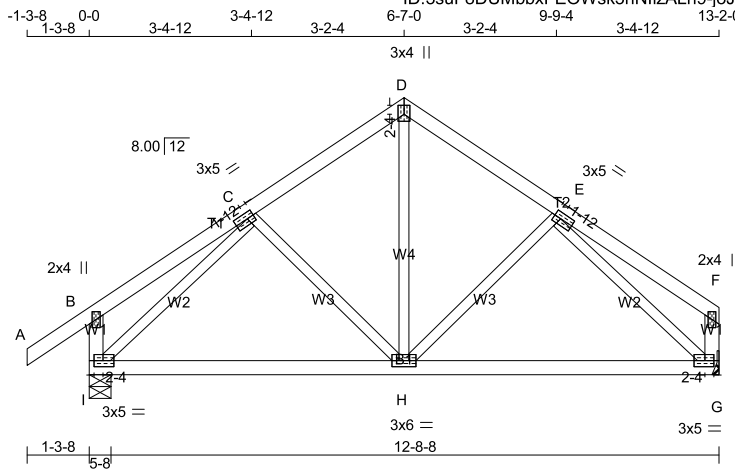
JOB NAME	CORPORATION OF THE TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-099	TRUE COPY OF PERMIT PLANS Nov 03 2023 PER: <i>C. Motta</i> CHIEF BUILDING OFFICIAL	3	1	TRUSS DESC.	

MHP 23032

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 14 09:32:34 2023 Page 1

ID: 3sdF6DUMboxFEOWsk3nNliZALn9-joJkmXQTxD1I30TzlcC7zIQvdLM3UxWfV7gbdRyyCQB

Scale: 1/4"=1'



TOTAL WEIGHT = 3 X 56 = 167 lb

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
C	TMWW-t	MT20	3.0	5.0	1.50	1.75
D	TTW+p	MT20	3.0	4.0	2.25	1.50
E	TMWW-t	MT20	3.0	5.0	1.50	1.75
F	TMV+p	MT20	2.0	4.0		
G	BMVW1-t	MT20	3.0	5.0	1.50	2.25
H	BMVWW-t	MT20	3.0	6.0		
I	BMVW1-t	MT20	3.0	5.0	1.50	2.25

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	IN-SX	IN-SX
I	1070	0	1070	0
G	906	0	906	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS
	COMBINED	SNOW	LIVE
I	745	554 / 0	0 / 0
G	633	458 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED	FACTORED	MAX.	MEMB.	MAX. FACTORED	MAX.	
	FORCE	VERT. LOAD	LC1		FORCE	MAX.	
	(LBS)	(PLF)	CS1 (LC)		(LBS)	CS1 (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 45	-119.4	-119.4	0.16 (1)	10.00	H-D	0 / 442
B-C	0 / 25	-119.4	-119.4	0.20 (1)	10.00	H-E	-210 / 0
C-D	-700 / 0	-119.4	-119.4	0.16 (1)	6.25	C-H	-210 / 0
D-E	-700 / 0	-119.4	-119.4	0.16 (1)	6.25	I-C	-1003 / 0
E-F	0 / 24	-119.4	-119.4	0.20 (1)	10.00	E-G	-1003 / 0
I-B	-316 / 0	0.0	0.0	0.03 (1)	7.81		
G-F	-152 / 0	0.0	0.0	0.02 (1)	7.81		
I-H	0 / 711	-18.2	-18.2	0.27 (4)	10.00		
H-G	0 / 711	-18.2	-18.2	0.27 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	34.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD	=	48.1	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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.44")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.44")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.20/0.97 (B-C:1), BC=0.27/0.97 (H-I:4), WB=0.34/0.97 (C-I:1), SSI=0.16/1.00 (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)	(PLI)
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (G) (INPUT = 0.90)
JSI METAL= 0.27 (E) (INPUT = 1.00)



JULY 14, 2023

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



JOB NAMECORPORATION OF THE TRUSS NAME

IM0723-099OF PERMIT PLANS

Nov 03 2023

PER:

CHIEF BUILDING OFFICIAL

QUANTITY

PLY

TRUSS DESC.

MHP 23032

DRWG NO.

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 14 09:32:34 2023 Page 1

ID:3sulP8DUMbbxFEOWsk3nNlizALn9-joJkmXQTxD1I30TzlcC7zlQt6LPJU_Fv7gbdRyyCQB

2x4 ||

4-1-8

4x5 =

B

8.00 | 12

T1

W3

W2

H

2x4 ||

4-1-8

3-8-4

C

T2

W3

G

3x4 =

7-9-12

3-8-4

D

W4

F

4x6 =

11-6-0

E

2x4 ||

Scale = 1:35.4

TOTAL WEIGHT = 50 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS SIZE LUMBER DESCR.

A - B 2x4 DRY No.2 SPF

B - D 2x4 DRY No.2 SPF

E - D 2x4 DRY No.2 SPF

H - A 2x4 DRY No.2 SPF

H - E 2x4 DRY No.2 SPF

ALL WEBS 2x3 DRY No.2 EXCEPT

SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE PLATES W LEN Y X

A TMVW-t MT20 3.0 5.0 1.50 2.00

B TTWW-m MT20 4.0 5.0 1.75 1.50

C TMW+w MT20 2.0 4.0

D TMVV-t MT20 4.0 4.0

E BMV1+p MT20 2.0 4.0

F BMWVV-t MT20 4.0 6.0 2.00 1.50

G BMWW-t MT20 3.0 4.0

H BMV1+p MT20 2.0 4.0

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

BEARINGS

FACTORED MAXIMUM FACTORED INPUT REQRD

GROSS REACTION GROSS REACTION BRG BRG

JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX

E 792 0 792 0 0 MECHANICAL

H 792 0 792 0 0 MECHANICAL

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

UNFACTORED REACTIONS

1ST LCASE MAX/MIN COMPONENT REACTIONS

JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL

E 553 400 / 0 0 / 0 0 / 0 0 / 0 153 / 0 0 / 0

H 553 400 / 0 0 / 0 0 / 0 0 / 0 153 / 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 MEMB. FORCE FACTORED VERT. LOAD LC1 MAX CSI (LC) UNBRAC LENGTH FR-TO

A-B -667 / 0 -119.4 -119.4 0.36 (1) 6.25 G-B -60 / 50 0.02 (4)

B-C -565 / 0 -119.4 -119.4 0.26 (1) 6.25 B-F -8 / 19 0.00 (1)

C-D -566 / 0 -119.4 -119.4 0.26 (1) 6.25 F-C -540 / 0 0.14 (1)

E-D -761 / 0 0.0 0.0 0.20 (1) 7.81 F-D 0 / 819 0.18 (1)

H-A -759 / 0 0.0 0.0 0.08 (1) 7.81 A-G 0 / 572 0.13 (1)

H-G 0 / 0 -18.2 -18.2 0.07 (4) 10.00

G-F 0 / 553 -18.2 -18.2 0.12 (1) 10.00

F-E 0 / 0 -18.2 -18.2 0.05 (4) 10.00

WEBS

MEMB. FORCE FACTORED MAX CSI (LC)

G-B -60 / 50 0.02 (4)

B-F -8 / 19 0.00 (1)

F-C -540 / 0 0.14 (1)

F-D 0 / 819 0.18 (1)

A-G 0 / 572 0.13 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 34.8 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.3 PSF

TOTAL LOAD = 48.1 PSF

SPACING = 24.0 IN./C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018 , NBC-2019AE

- PART 9 OF OBC 2012 (2019 AMENDMENT)

- CSA 086-14

- TPIC 2014

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.38")

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")

ALLOWABLE DEFL.(TL)= L/360 (0.38")

CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.36/0.97 (A-B:1) ; BC=0.12/0.97 (F-G:1) ; WB=0.18/0.97 (D-F:1) ; SSI=0.21/1.00 (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= 0.81 (G) (INPUT = 0.90)

JSI METAL= 0.23 (A) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER

I.MATUEVIC

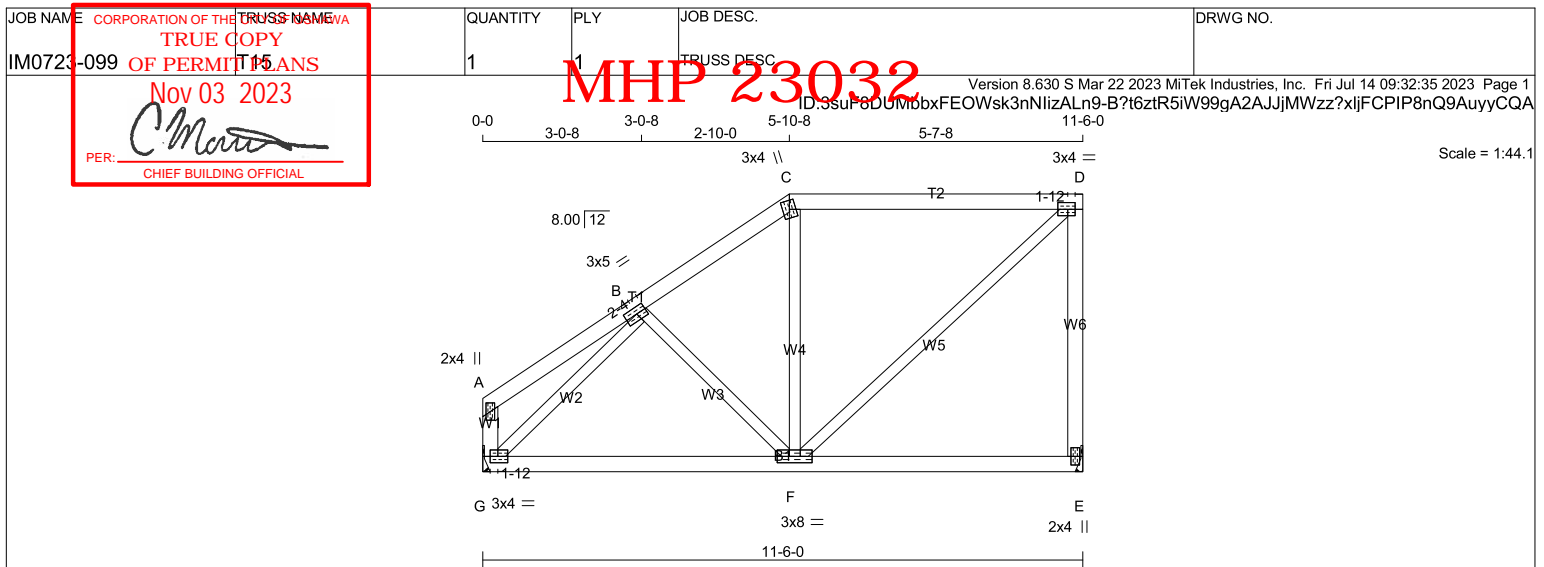
100528832

PROVINCE OF ONTARIO

JULY 14, 2023

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



TOTAL WEIGHT = 50 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - D	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF
G - A	2x4	DRY	No.2	SPF
G - E	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	TMV+p	MT20	2.0	4.0		
B	TMWW-t	MT20	3.0	5.0	1.50	2.25
C	TTW+m	MT20	3.0	4.0		
D	TMVW-t	MT20	3.0	4.0	1.50	1.75
E	BMV1+p	MT20	2.0	4.0		
F	BMWWW-t	MT20	3.0	8.0		
G	BMVW1-t	MT20	3.0	4.0	1.50	1.75

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
E 792 0	792 0	0	MECHANICAL	
G 792 0	792 0	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	553	400 / 0	0 / 0	0 / 0	0 / 0	153 / 0	0 / 0
G	553	400 / 0	0 / 0	0 / 0	0 / 0	153 / 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 (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 22	-119.4 -119.4	0.16 (1)	10.00	B-F	-182 / 0	0.06 (1)
B-C	-580 / 0	-119.4 -119.4	0.13 (1)	6.25	F-C	-162 / 25	0.07 (1)
C-D	-460 / 0	-119.4 -119.4	0.49 (1)	6.25	F-D	0 / 622	0.14 (1)
E-D	-753 / 0	0.0 0.0	0.37 (1)	7.81	G-B	-853 / 0	0.24 (1)
G-A	-135 / 0	0.0 0.0	0.01 (1)	7.81			
G-F	0 / 592	-18.2 -18.2	0.21 (4)	10.00			
F-E	0 / 0	-18.2 -18.2	0.17 (4)	10.00			

DESIGN CRITERIA**SPECIFIED LOADS:**

TOP CH.	LL	=	34.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD	=	48.1	PSF	

SPACING = 24.0 IN.C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.38")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.38")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.49/0.97 (C-D:1) , BC=0.21/0.97 (F-G:4) , WB=0.24/0.97 (B-G:1) , SSI=0.26/1.00 (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
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (G) (INPUT = 0.90)
JSI METAL= 0.23 (B) (INPUT = 1.00)



JULY 14, 2023

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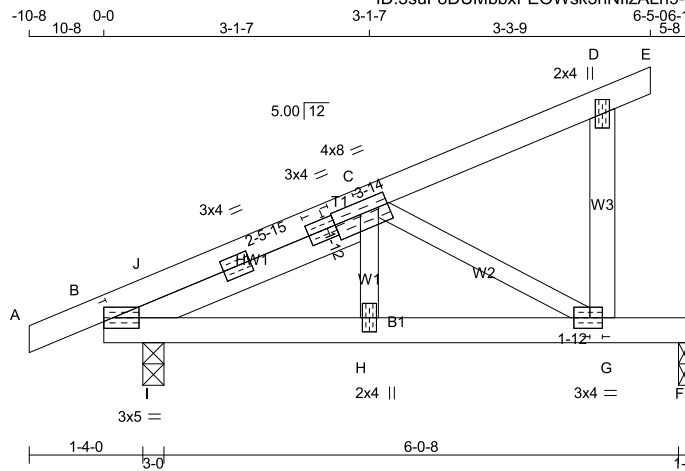
JOB NAME	CORPORATION OF THE TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-099	TRUE COPY OF PERMIT PLANS Nov 03 2023 PER: <i>C. M. M. M.</i> CHIEF BUILDING OFFICIAL	5	1	TRUSS DESC.	

MHP 23032

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 14 09:32:36 2023 Page 1

ID: 3suF8DUMb0xFEOWsk3nNizALn9-fBRVBDRTqH0lJdMt0Eb2AWGb9zPxtAYNR9iiKyyCQ9

Scale = 1:27.0



TOTAL WEIGHT = 5 X 27 = 134 lb

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
B		585	0	585	0	0	3-0	1-8	
F		425	0	425	0	0	1-8	1-8	

UNFACTORED REACTIONS

1ST CASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	407	304 / 0	0 / 0	0 / 0	0 / 0	103 / 0	0 / 0
F	298	211 / 0	0 / 0	0 / 0	0 / 0	87 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 8	-119.4 -119.4	0.07 (1)	10.00	H-C	0 / 246	0.06 (1)
B-J	-747 / 0	-119.4 -119.4	0.07 (1)	6.25	C-G	-711 / 0	0.14 (1)
J-C	-675 / 0	-119.4 -119.4	0.04 (1)	6.25	I-J	-25 / 19	0.00 (1)
C-D	-10 / 0	-119.4 -119.4	0.11 (1)	6.25			
D-E	-11 / 0	-119.4 -119.4	0.01 (1)	6.25			
G-D	-201 / 0	0.0 0.0	0.03 (1)	7.81			
B-I	0 / 626	-18.2 -18.2	0.11 (1)	10.00			
I-H	0 / 626	-18.2 -18.2	0.22 (1)	10.00			
H-G	0 / 626	-18.2 -18.2	0.60 (1)	10.00			
G-F	0 / 0	-18.2 -18.2	0.50 (1)	10.00			

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMBR-I	MT20	3.0	5.0		Edge
B	RT-I	MT20	3.0	4.0		
B	RT-I	MT20	3.0	4.0	1.50	30.00
C	TMWWR*-I	MT20	4.0	8.0	1.75	4.00
D	TMV+p	MT20	2.0	4.0		
G	BMVW-t	MT20	3.0	4.0	1.50	1.75
H	BMW+w	MT20	2.0	4.0		

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

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 48.1 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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.23")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL) = L/360 (0.23")
CALCULATED VERT. DEFL.(TL) = L/848 (0.10")

CSI: TC=0.11/0.97 (C-D:1), BC=0.60/0.97 (G-H:1)
WB=0.14/0.97 (C-G:1), SSI=0.33/1.00 (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

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)	(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= 0.90 (C) (INPUT = 0.90)
JSI METAL= 0.21 (G) (INPUT = 1.00)

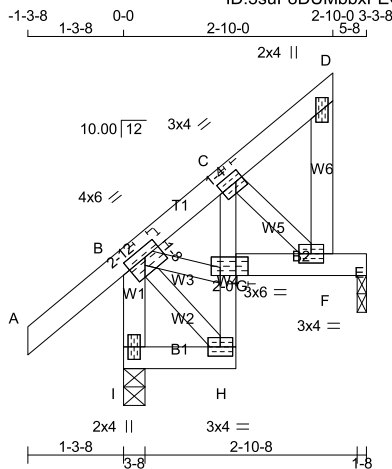


JULY 14, 2023

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JOB NAME	CORPORATION OF THE TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-099	TRUE COPY OF PERMIT PLANS Nov 03 2023 PER: <i>C. Motta</i> CHIEF BUILDING OFFICIAL	4	1	TRUSS DESC.	



Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 14 09:32:36 2023 Page 1
ID:3suF6DUMbxbFEOWsk3nNlIZALn9-fBRVBDRTqH0JdMt0Eb2AWff94jxvqYNR9iiKyyCQ9

Scale = 1:31.2

TOTAL WEIGHT = 4 X 19 = 76 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVWW-t	MT20	4.0	6.0	1.50	2.75
C	TMWW-t	MT20	3.0	4.0	1.50	1.25
D	TMV+p	MT20	2.0	4.0		
F	BMVW-t	MT20	3.0	4.0		
G	BMWV-t	MT20	3.0	6.0		2.00
H	BMWW-t	MT20	3.0	4.0		
I	BMV1+p	MT20	2.0	4.0		

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
I	424	0	424	0
E	142	0	172	0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	293	229 / 0	0 / 0	0 / 0	0 / 0	64 / 0	0 / 0
E	100	85 / -20	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0

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

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.

MAX. UNBRACED INTERIOR CHORD LENGTH = 10.00 FT

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

LOADING

TOTAL LOAD CASES: (7)

C H O R D S				W E B S				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. FACTORED VERT. LOAD (PLF)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)	
FR-TO		FROM	TO		FR-TO			
A-B	0 / 53	-119.4	-119.4	0.17 (5)	10.00	B-G	-44 / 152	0.03 (6)
B-C	-198 / 0	-119.4	-119.4	0.16 (5)	6.25	H-G	0 / 15	0.01 (6)
C-D	-9 / 11	-119.4	-119.4	0.04 (1)	10.00	G-C	0 / 71	0.02 (6)
F-D	-86 / 0	0.0	0.0	0.01 (1)	7.81	B-H	-2 / 2	0.00 (6)
I-B	-411 / 0	0.0	0.0	0.04 (1)	7.81	C-F	-199 / 62	0.03 (6)
I-H	0 / 0	-18.2	-18.2	0.01 (4)	10.00			
G-F	-47 / 150	-18.2	-18.2	0.13 (6)	6.25			
F-E	0 / 0	-18.2	-18.2	0.10 (6)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

PATTERN-LOADING CHECK APPLIED TO THIS TRUSS.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	34.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD	=	48.1	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, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.17/0.97 (A-B:5) , BC=0.13/0.97 (F-G:6) ,
WB=0.03/0.97 (B-G:6) , SSI=0.13/1.00 (E-F:6)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.36 (G) (INPUT = 0.90)
JSI METAL= 0.09 (I) (INPUT = 1.00)



JULY 14, 2023

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