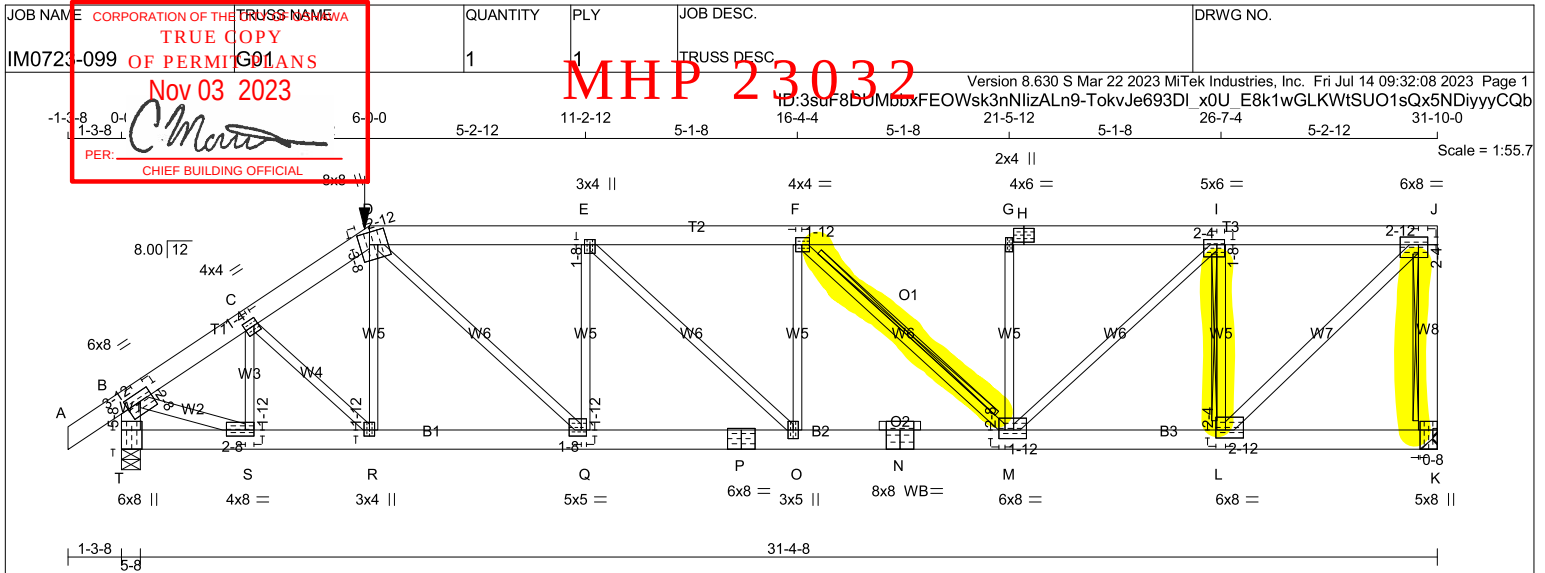




TOTAL WEIGHT = 185 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x6	DRY	No.2	SPF
D - H	2x6	DRY	No.2	SPF
H - J	2x6	DRY	No.2	SPF
K - J	2x6	DRY	No.2	SPF
T - B	2x6	DRY	No.2	SPF
T - P	2x6	DRY	2100F 1.8E	SPF
P - N	2x6	DRY	2100F 1.8E	SPF
N - K	2x6	DRY	2100F 1.8E	SPF

ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
L - J	2x4	DRY	No.2	SPF
B - S	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	8.0	2.50	3.75
C	TMVW-t	MT20	4.0	4.0	2.00	1.25
D	TTWW+m	MT20	8.0	8.0	3.50	2.75
E	TMVW+t	MT20	3.0	4.0	1.50	1.50
F	TMVW-t	MT20	4.0	4.0	2.00	1.75
G	TMVW-w	MT20	2.0	4.0		
H	TS-t	MT20	4.0	6.0		
I	TMVW-t	MT20	5.0	6.0	1.50	2.25
J	TMVW-t	MT20	6.0	8.0	2.25	2.75
K	BMV1+t	MT20	5.0	8.0	Edge	0.50
L	BMVW-t	MT20	6.0	8.0	2.25	2.75
M	BMVWW-t	MT20	6.0	8.0	2.50	1.75
N	BS-t	MT20	8.0	8.0		
O	BMVW+t	MT20	3.0	5.0		
P	BS-t	MT20	6.0	8.0		
Q	BMVW-t	MT20	5.0	5.0	1.75	1.50
R	BMVW+t	MT20	3.0	4.0	1.75	1.50
S	BMVW-t	MT20	4.0	8.0	1.75	2.50
T	BMV1+t	MT20	6.0	8.0	5.50	

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

WB - INDICATES BLOCKING REQUIRED

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	UP/LIFT	IN-SX
K	4173	0	4173	0
T	4163	0	4163	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT K. MINIMUM BEARING LENGTH AT JOINT K = 5-0.

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. SNOW	MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
K	2916	2113 / 0	0 / 0	0 / 0	0 / 0	802 / 0	0 / 0
T	2909	2107 / 0	0 / 0	0 / 0	0 / 0	801 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) T
BEARING SIZE FACTOR = 1.15 AT JNT(S) T (BASED ON SUPPORT DEPTH = 1-8)**BRACING**TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.58 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 J-K, F-M, I-L

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

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

LOADING

TOTAL LOAD CASES: (4)

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 / 47	-119.4 -119.4	0.09 (1)	10.00	S-C	-1142 / 0	0.22 (1)
B-C	-4679 / 0	-119.4 -119.4	0.21 (1)	3.81	C-R	0 / 621	0.15 (1)
C-D	-5240 / 0	-119.4 -119.4	0.22 (1)	3.61	R-D	-183 / 89	0.07 (1)
D-E	-6349 / 0	-225.2 -225.2	0.71 (1)	2.76	D-Q	0 / 2765	0.68 (1)
E-F	-6858 / 0	-225.2 -225.2	0.76 (1)	2.58	Q-E	-1752 / 0	0.69 (1)
F-G	-5981 / 0	-225.2 -225.2	0.58 (1)	3.03	E-O	0 / 707	0.18 (1)
G-H	-5981 / 0	-225.2 -225.2	0.72 (1)	2.80	O-F	-297 / 60	0.12 (1)
H-I	-5981 / 0	-225.2 -225.2	0.72 (1)	2.80	F-M	-1219 / 0	0.46 (1)
I-J	-3834 / 0	-225.2 -225.2	0.56 (1)	3.70	M-G	-1099 / 0	0.43 (1)
K-J	-4100 / 0	0.0 0.0	0.48 (1)	7.81	M-I	0 / 2983	0.74 (1)
T-B	-4070 / 0	0.0 0.0	0.29 (1)	5.20	L-I	-3393 / 0	0.75 (1)
					L-J	0 / 5276	0.93 (1)
					B-S	0 / 4057	0.72 (1)
T-S	0 / 0	-34.4 -34.4	0.05 (1)	10.00			
S-R	0 / 3898	-34.4 -34.4	0.26 (1)	10.00			
R-Q	0 / 4336	-34.4 -34.4	0.28 (1)	10.00			
Q-P	0 / 6349	-34.4 -34.4	0.39 (1)	10.00			
P-O	0 / 6349	-34.4 -34.4	0.39 (1)	10.00			
O-N	0 / 6858	-34.4 -34.4	0.43 (1)	10.00			
N-M	0 / 6858	-34.4 -34.4	0.43 (1)	10.00			
M-L	0 / 3834	-34.4 -34.4	0.25 (1)	10.00			
L-K	0 / 0	-34.4 -34.4	0.06 (4)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	6-0-0	-367	-367	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

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

GIRDER TYPE: CPrimeHip
LEFT SETBACK = 6-0-0
RIGHT SETBACK = 0-0
END SETBACK = 6-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADD'L LOADS BASED ON 55 % OF GSL.

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 (1.06")
CALCULATED VERT. DEFL.(LL) = L/999 (0.25")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/880 (0.43")CSI: TC=0.76/0.97 (E-F:1), BC=0.43/0.97 (M-O:1)
WB=0.93/0.97 (J-L:1), SSI=0.47/1.00 (I-J:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00
COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (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 (L) (INPUT = 0.90)
JSI METAL= 0.97 (N) (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: TRUE COPY IM0723-099 OF PERMIT 02 Nov 03 2023 PER: CHIEF BUILDING OFFICIAL	QUANTITY: 1 PLY: 2	JOB DESC: TRUSS DESC:	DRWG NO.: Scale = 1:61.3
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Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 14 09:32:09 2023 Page 1
 ID: k8BaHz187uQ8jC9gNSa3d6z92M6-x?IHw_6nqXtrZA3AorFGSUuYyGiT7Wpa9k7nFOyyCQa

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - E	2x4	DRY	No.2	SPF
E - H	2x4	DRY	No.2	SPF
P - B	2x6	DRY	No.2	SPF
I - H	2x6	DRY	No.2	SPF
P - N	2x6	DRY	No.2	SPF
N - I	2x8	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
L - E	2x4	DRY	No.2	SPF
B - O	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - E	12	SIDE(49.7)
E - H	12	TOP
P - B	12	TOP
I - H	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
P - N	12	SIDE(10.2)
N - I	5	SIDE(505.5)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	
2x4	1	6

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.

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	8262	0	5-8
P	8262	0	5-8
I	10308	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM.LIVE WIND DEAD SOIL
P	5771 4190 / 0 0 / 0 0 / 0 1581 / 0 0 / 0
I	7204 5212 / 0 0 / 0 0 / 0 1992 / 0 0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.59 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.	FORCE (LBS)	MEMB.	FORCE (LBS)
FR-TO		FR-TO	
A - B	0 / 45	O - C	-2206 / 0
B - C	-9386 / 0	C - M	0 / 1151
C - D	-10417 / 0	M - D	0 / 3397
D - E	-8679 / 0	D - L	-3208 / 0
E - F	-8682 / 0	L - E	0 / 9316
F - G	-10119 / 0	G - L	-2374 / 0
G - H	-10579 / 0	K - F	0 / 2521
P - B	-8196 / 0	K - G	-559 / 0
I - H	-8779 / 0	J - G	0 / 313
		B - O	0 / 8222
		J - H	0 / 9219
P - O	0 / 0		
O - N	0 / 7825		
N - M	0 / 7825		
M - L	0 / 8638		
L - K	0 / 8418		
K - J	0 / 8803		
J - I	0 / 0		

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	6.0	8.0	2.50	3.75

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
 GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
 LOADS WERE DERIVED FROM USER INPUT
 NO FURTHER MODIFICATIONS WERE MADE

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

GIRDER TYPE: CStdGirder
 START DISTANCE = 6-0-12
 START SPAN CARRIED = 31-10-0
 END DISTANCE = 17-0-0
 END SPAN CARRIED = 31-10-0
 END WALL WIDTH = 5-8
 APPLIED TO FRONT SIDE OF BOTTOM CHORD.
 - ADDT'L LOADS BASED ON 55 % OF GSL.

GIRDER TYPE: CPrimeHip
 SIDE SETBACK = 0-0
 END SETBACK = 6-0-0
 END WALL WIDTH = 0-0
 CORNER FRAMING TYPE: CONVENTIONAL
 END JACK TYPE: CONVENTIONAL
 APPLIED TO FRONT SIDE
 - ADDT'L LOADS BASED ON 55 % OF GSL.
 LOADS APPLIED TO FIRST 6-0-12 OF SPAN MEASURED FROM THE LEFT.

*** NON STANDARD GIRDER ***
 ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 (0.57")
 CALCULATED VERT. DEFL.(LL) = L/ 999 (0.11")
 ALLOWABLE DEFL.(TL)= L/360 (0.57")
 CALCULATED VERT. DEFL.(TL) = L/ 999 (0.19")

CSI: TC=0.52/0.97 (C-D:1) , BC=0.83/0.97 (L-M:1)
 , WB=0.82/0.97 (E-L:1) , SSI=0.68/1.00 (L-M:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

CONTINUED ON PAGE 2

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.

I.MATJJEVIC
100528832
PROVINCE OF ONTARIO
JULY 14, 2023

JOB NAME	CORPORATION OF THE TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-099	TRUE COPY OF PERMIT NO. 02 Nov 03 2023	1	2	TRUSS DESC.	

MHP 23032

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PLATES (table)	PLATES BUILDING ONLY	ONLY	X
JT TYPE			
C TMWW-t	MT20	4.0 4.0	2.00 1.25
D TMWW-t	MT20	4.0 5.0	1.50 1.50
E TTW-h	MT20	6.0 8.0	2.00 5.25
F TMWW-t	MT20	4.0 4.0	1.50 1.00
G TMWW-t	MT20	3.0 4.0	1.50 1.50
H TMVW-t	MT20	6.0 8.0	2.00 3.75
I BMV1+t	MT20	6.0 10.0	Edge 0.50
J BMWW-t	MT20	8.0 8.0	4.25 3.00
K BMWW+t	MT20	4.0 5.0	
L BMWWW+t	MT20	8.0 10.0	5.50 4.00
M BMWW+t	MT20	4.0 8.0	5.50 1.50
N BS-t	MT20	6.0 8.0	
O BMWW-t	MT20	6.0 8.0	3.00 3.25
P BMV1+t	MT20	6.0 8.0	5.50

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

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 (J) (INPUT = 0.90)
JSI METAL= 0.95 (H) (INPUT = 1.00)



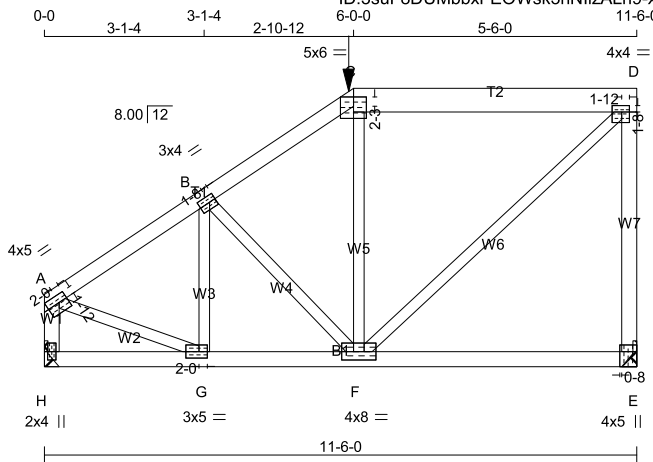
JULY 14, 2023

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 NO. 08	1	1	TRUSS DESC.	

Nov 03 2023

PER: 
CHIEF BUILDING OFFICIAL

TOTAL WEIGHT = 55 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - D	2x6	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 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	4.0	5.0	1.75	Edge
B	TMWW-t	MT20	3.0	4.0	1.50	1.50
C	TTW-t	MT20	5.0	6.0	2.25	3.00
D	TMVW-t	MT20	4.0	4.0	1.50	1.75
E	BMV1+t	MT20	4.0	5.0	Edge	0.50
F	BMWWW-t	MT20	4.0	8.0		
G	BMWW-t	MT20	3.0	5.0	1.50	2.00
H	BMV1+p	MT20	2.0	4.0		

Edge - INDICATES REFERENCE CORNER OF PLATE
TOUCHES EDGE OF CHORD.**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER****BEARINGS**

	FACTORED	MAXIMUM FACTORED	INPUT	REQRD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	UPLIFT
E	1607	0	1607	0
H	1281	0	1281	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT E, H. MINIMUM
BEARING LENGTH AT JOINT E = 3-8, JOINT H = 1-8.**UNFACTORED REACTIONS**

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	1122	822 / 0	0 / 0	0 / 0	0 / 0	300 / 0	0 / 0
H	898	631 / 0	0 / 0	0 / 0	0 / 0	267 / 0	0 / 0

BRACINGTOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.41 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	FACTORED		MEMB.	MAX. FACTORED		
	FORCE	VERT. LOAD	LC1 MAX		FORCE	MAX	
	(LBS)	(PLF)	CSI (LC)		(LBS)	CSI (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	-1261 / 0	-119.4	-119.4 0.21 (1)	5.41	G-B	-289 / 0	0.06 (1)
B-C	-1202 / 0	-119.4	-119.4 0.21 (1)	5.51	B-F	-121 / 0	0.04 (1)
C-D	-972 / 0	-225.2	-225.2 0.64 (1)	6.07	F-C	-635 / 0	0.27 (1)
E-D	-1529 / 0	0.0	0.0 0.74 (1)	6.53	F-D	0 / 1328	0.33 (1)
H-A	-1229 / 0	0.0	0.0 0.14 (1)	7.12	A-G	0 / 1131	0.28 (1)
H-G	0 / 0	-34.4	-34.4 0.09 (4)	10.00			
G-F	0 / 1068	-34.4	-34.4 0.31 (4)	10.00			
F-E	0 / 0	-34.4	-34.4 0.23 (4)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	6-0-0	-367	-367	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

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/CLOADING IN FLAT SECTION BASED ON A
SLOPE OF 2.00/12 MINIMUMGIRDER TYPE: CPrimeHip
LEFT SETBACK = 6-0-0
RIGHT SETBACK = 0-0
END SETBACK = 6-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADD'L LOADS BASED ON 55 % OF GSL.THIS TRUSS IS DESIGNED FOR RESIDENTIAL
OR SMALL BUILDING REQUIREMENTS OF
PART 9, NBCC 2015THIS 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 LOADALLOWABLE DEFL.(LL)= L/360 (0.38")
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.38")
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.06")CSI: TC=0.74/0.97 (D-E:1), BC=0.31/0.97 (F-G:4),
WB=0.33/0.97 (D-F:1), SSI=0.41/1.00 (C-D:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00
COMP=1.00 SHEAR=1.00 TENS= 1.00

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT
RESPONSIBLE FOR QUALITY CONTROL IN
THE TRUSS MANUFACTURING PLANT .NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1987 1873

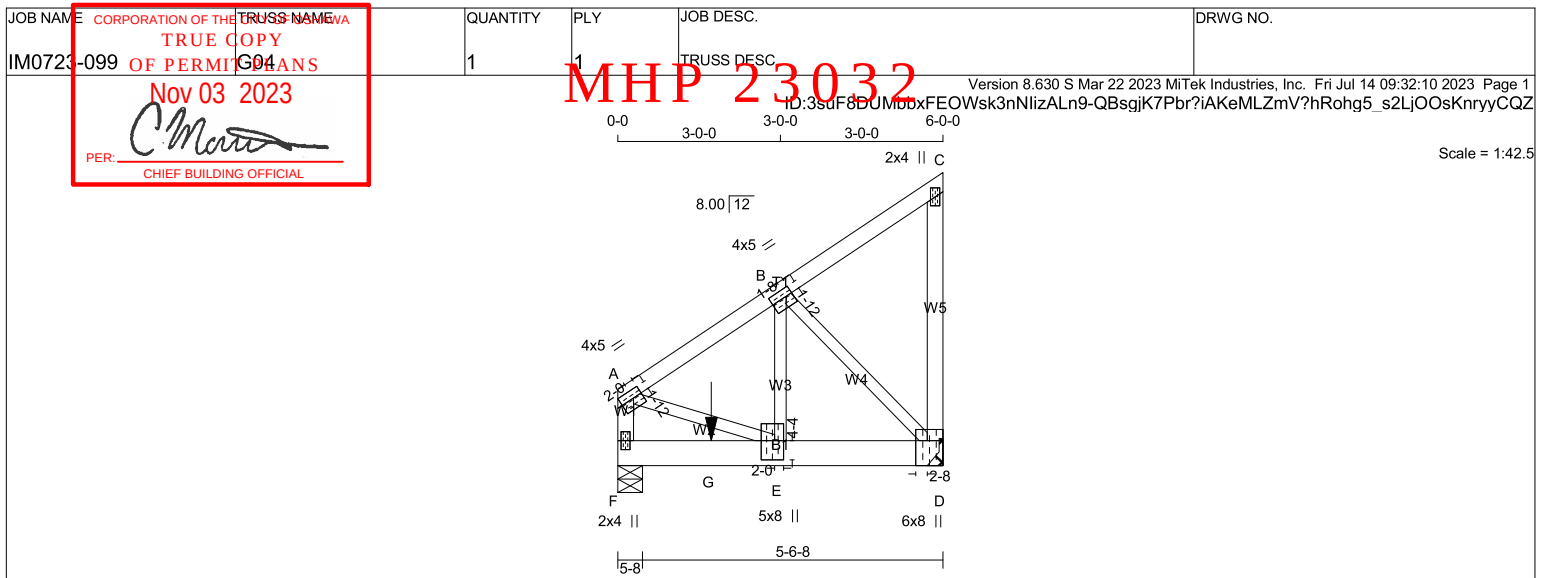
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (F) (INPUT = 0.90)
JSI METAL= 0.39 (A) (INPUT = 1.00)

JULY 14, 2023

READ ALL NOTES ON THIS PAGE AND ON THE
ENGINEERING NOTES: TRUSSES. THE NOTE PAGE
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CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.



TOTAL WEIGHT = 33 lb

LUMBER

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	4.0	5.0	1.75	Edge
B	TMVW-t	MT20	4.0	5.0	1.75	1.50
C	TMV+p	MT20	2.0	4.0		
D	BMVW1+t	MT20	6.0	8.0	Edge	2.50
E	BMVW+t	MT20	5.0	8.0	4.25	2.00
F	BMV1+p	MT20	2.0	4.0		

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

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

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
F	1825	0	1825	0	0	5-8	2-7
D	1683	0	1683	0	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	1275	923 / 0	0 / 0	0 / 0	0 / 0	353 / 0	0 / 0
D	1176	851 / 0	0 / 0	0 / 0	0 / 0	325 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.22 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 FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO		FR-TO		
F-A	-1323 / 0	0.0	0.0	0.15 (1)	6.91	A-E	0 / 1246
A-B	-1400 / 0	-119.4	-119.4	0.20 (1)	5.22	E-B	0 / 1536
B-C	-21 / 0	-119.4	-119.4	0.17 (1)	6.25	B-D	-1671 / 0
D-C	-142 / 0	0.0	0.0	0.07 (1)	7.81		
F-G	0 / 0	-18.2	-18.2	0.62 (1)	10.00		
G-E	0 / 0	-345.2	-345.2	0.62 (1)	10.00		
E-D	0 / 1182	-345.2	-345.2	0.50 (1)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	1-8-12	-898	-898	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

SPECIFIED LOADS:

TOP CH.	LL	=	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

GIRDER TYPE: CStdGirder
START DISTANCE = 1-8-12
START SPAN CARRIED = 11-6-0
END DISTANCE = 6-0-0
END SPAN CARRIED = 11-6-0
END WALL WIDTH = 0-0
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

***** NON STANDARD GIRDER *****

ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.20/0.97 (A-B:1) , BC=0.62/0.97 (E-F:1) , WB=0.49/0.97 (B-D:1) , SSI=0.83/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (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.

CONTINUED ON PAGE 2



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. 04 Nov 03 2023	1	1	TRUSS DESC.	

MHP 23032

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 14 09:32:10 2023 Page 2
ID:3suF8DUMbpxFEOWsk3nNlIZALn9-QBsgjK7Pbr?iAKeMLZmV?hRohg5_s2LjOOskNryyCQZJSI GRIP= 0.90 (B) (INPUT = 0.90)
JSI METAL= 0.43 (A) (INPUT = 1.00)

JULY 14, 2023

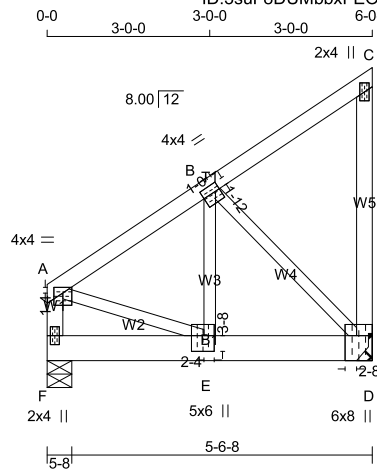
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JOB NAME	CORPORATION OF THE TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-099	TRUE COPY OF PERMIT NO. 05 Nov 03 2023 PER: <i>C. M. M. M.</i> CHIEF BUILDING OFFICIAL	1	1	TRUSS DESC.	

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Scale = 1:42.5



TOTAL WEIGHT = 33 lb

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-p	MT20	4.0	4.0	1.25	2.00
B	TMWW-t	MT20	4.0	4.0	1.75	1.00
C	TMV+p	MT20	2.0	4.0		
D	BMVW1+t	MT20	6.0	8.0	Edge	2.50
E	BMVW+t	MT20	5.0	6.0	3.50	2.25
F	BMV1+p	MT20	2.0	4.0		

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

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
F	1519	0	1519	0
D	1519	0	0	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
F	1061	768 / 0	0 / 0	0 / 0	0 / 0	293 / 0	0 / 0	
D	1061	768 / 0	0 / 0	0 / 0	0 / 0	293 / 0	0 / 0	

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.81 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.

LOADING

TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO		FR-TO		
F-A	-1038 / 0	0.0	0.0	0.12 (1)	7.59	A-E	0 / 947
A-B	-1059 / 0	-119.4	-119.4	0.20 (1)	5.81	E-B	0 / 1061
B-C	-22 / 0	-119.4	-119.4	0.18 (1)	6.25	B-D	-1271 / 0
D-C	-140 / 0	0.0	0.0	0.07 (1)	7.81		
F-E	0 / 0	-386.8	-386.8	0.22 (1)	10.00		
E-D	0 / 899	-386.8	-386.8	0.34 (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

GIRDER TYPE: CStdGirder

START DISTANCE = 0-0

START SPAN CARRIED = 13-2-0

END DISTANCE = 6-0-0

END SPAN CARRIED = 13-2-0

END WALL WIDTH = 5-8

APPLIED TO FRONT SIDE OF BOTTOM CHORD.

- ADDTL LOADS BASED ON 55 % OF GSL.

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

CSI: TC=0.20/0.97 (A-B:1) , BC=0.34/0.97 (D-E:1) , WB=0.37/0.97 (B-D:1) , SSI=0.45/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (A) (INPUT = 0.90)

JSI METAL= 0.32 (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.



[illegible]

JOB NAME	CORPORATION OF THE TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-099	TRUE COPY OF PERMIT NO. 06 Nov 03 2023	1	2	TRUSS DESC.	
Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 14 09:32:12 2023 Page 2 ID:3sdF8DUMbXFEOWsk3nNlIZALn9-MZ_Q809f7SFQQdoIT_pz46W5BUnGKvv0siLRsjyyCQX					

PLATES (table 1)

JT	TYPE	PLATES	BUILDING	OFF	ONLY	X
C	TMWW-t	MT20	3.0	4.0	1.50	1.50
D	TTWW+m	MT20	6.0	8.0	Edge	2.00
E	TMWW+t	MT20	4.0	4.0	1.50	1.50
F	TMWW-t	MT20	3.0	4.0		
G	TMW+w	MT20	2.0	4.0		
H	TMWW-t	MT20	3.0	4.0		
I	TS-t	MT20	3.0	6.0		
J	TMWW+t	MT20	4.0	5.0	2.25	1.50
K	TTWW+m	MT20	6.0	8.0	Edge	2.00
L	TMWW-t	MT20	3.0	4.0	1.50	1.50
M	TMVW-p	MT20	6.0	6.0	2.25	2.75
N	BMV1+t	MT20	4.0	8.0	Edge	1.50
O	BMWW-t	MT20	4.0	6.0	2.00	2.00
P	BMWW+t	MT20	3.0	4.0		
Q	BMWW+t	MT20	4.0	5.0	2.00	1.50
R	BMWW+t	MT20	4.0	5.0	2.25	1.50
S	BMWWW-t	MT20	4.0	6.0		
T	BS-t	MT20	5.0	6.0		
U	BMWWW+t	MT20	4.0	5.0	2.50	1.50
V	BMWW+t	MT20	4.0	5.0	2.00	1.50
W	BMWW+t	MT20	3.0	4.0		
X	BMWW-t	MT20	4.0	6.0	2.00	2.25
Y	BMV1+p	MT20	3.0	4.0		

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



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 NOZ Nov 03 2023 PER: <i>C. Monte</i> CHIEF BUILDING OFFICIAL	1	2	TRUSS DESC.	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 14 09:32:13 2023 Page 1

ID: 35uF8DUmBdxFLQWsk3nNliZAln9-qmYoMMAHumNH1nNx1hKCdK3Gcu7r3IH94M5_O9yyCQW

Scale = 1:53.0

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - G	2x4	DRY	No.2	SPF
M - A	2x6	DRY	No.2	SPF
H - F	2x6	DRY	No.2	SPF
M - H	2x8	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				

DRY: SEASONED LUMBER.

DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS SURFACE SPACING (IN) LOAD(PLF)

TOP CHORDS : (0.122"x3") SPIRAL NAILS

A - C 1 12 TOP

C - G 1 12 TOP

M - A 2 12 TOP

H - F 2 12 TOP

BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS

M - H 2 5 SIDE(479.7)

WEBS : (0.122"x3") SPIRAL NAILS

2x3 1 6

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	6.0	8.0	1.75	3.75
B	TMVW-t	MT20	5.0	5.0	2.00	1.25
C	TTW+p	MT20	5.0	6.0	2.25	2.50
D	TMVW-t	MT20	3.0	4.0	1.50	1.50
E	TMVW-t	MT20	3.0	4.0	1.50	1.50
F	TMVW-p	MT20	5.0	6.0	1.50	3.00
H	BMV1+p	MT20	2.0	4.0	2.25	1.00

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	IN-SX	IN-SX
M	8759	0	5-8	5-8
H	4167	0	5-8	2-4

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
M	6121	4429 / 0	0 / 0	0 / 0	0 / 0	1692 / 0
H	2910	2120 / 0	0 / 0	0 / 0	0 / 0	790 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.03 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO	LENGTH	FR-TO		
A-B	-8653 / 0	-119.4	-119.4	0.41 (1)	3.03	L-B	0 / 4355
B-C	-5093 / 0	-119.4	-119.4	0.22 (1)	4.08	B-K	-4103 / 0
C-D	-4977 / 0	-119.4	-119.4	0.21 (1)	4.10	K-C	0 / 5203
D-E	-5170 / 0	-119.4	-119.4	0.25 (1)	4.01	K-D	-124 / 0
E-F	-4667 / 0	-119.4	-119.4	0.18 (1)	4.27	J-D	0 / 205
F-G	0 / 45	-119.4	-119.4	0.09 (1)	10.00	J-E	0 / 501
M-A	-6882 / 0	0.0	0.0	0.24 (1)	5.62	I-E	-1105 / 0
H-F	-4060 / 0	0.0	0.0	0.14 (1)	6.98	A-L	0 / 7449
						I-F	0 / 4069
M-L	0 / 0	-977.7	-977.7	0.45 (1)	10.00		
L-K	0 / 7208	-345.2	-345.2	0.54 (1)	10.00		
K-J	0 / 4252	-345.2	-345.2	0.39 (1)	10.00		
J-I	0 / 3903	-18.2	-18.2	0.32 (1)	10.00		
I-H	0 / 0	-18.2	-18.2	0.06 (1)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
J	7-11-4	-1122	-1122	---	FRONT	VERT	TOTAL	---	C1
L	3-6-7	-3073	-3073	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

SPECIFIED LOADS:
TOP CH. LL = 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

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 30-4-0
END DISTANCE = 3-6-7
END SPAN CARRIED = 30-4-0
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

GIRDER TYPE: CStdGirder
START DISTANCE = 3-6-7
START SPAN CARRIED = 11-6-0
END DISTANCE = 7-11-4
END SPAN CARRIED = 11-6-0
END WALL WIDTH = 0-0
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 (0.47")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TC=0.41/0.97 (A-B:1) , BC=0.54/0.97 (K-L:1) , WB=0.92/0.97 (A-L:1) , SSI=0.55/1.00 (L-M:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

CONTINUED ON PAGE 2

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.

LICENSED PROFESSIONAL ENGINEER
I.MATJJEVIC
100528832
PROVINCE OF ONTARIO
JULY 14, 2023

KOTT

JOB NAME	CORPORATION OF THE TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-099	TRUE COPY OF PERMIT NO. 07 Nov 03 2023	1	2	TRUSS DESC.	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 14 09:32:13 2023 Page 2

ID:3suF8DUmbxPEOWsk3nNizALn9-qmYoMMAHumNH1nNx1hKCdK3Gcu7r3IH94M5_O9yyCQW

PLATES (table)	PLATES BUILDING OFFICER	ONLY	X
JT TYPE			
I BMWW-t	MT20	4.0 8.0	2.25 1.75
J BMWW-t	MT20	4.0 4.0	2.25 2.00
K BMWWW-t	MT20	8.0 8.0	
L BMWW-t	MT20	10.0 10.0	5.50 4.25
M BMV1+t	MT20	6.0 10.0	7.25

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

PLATE PLACEMENT TOL. = 0.250 inches

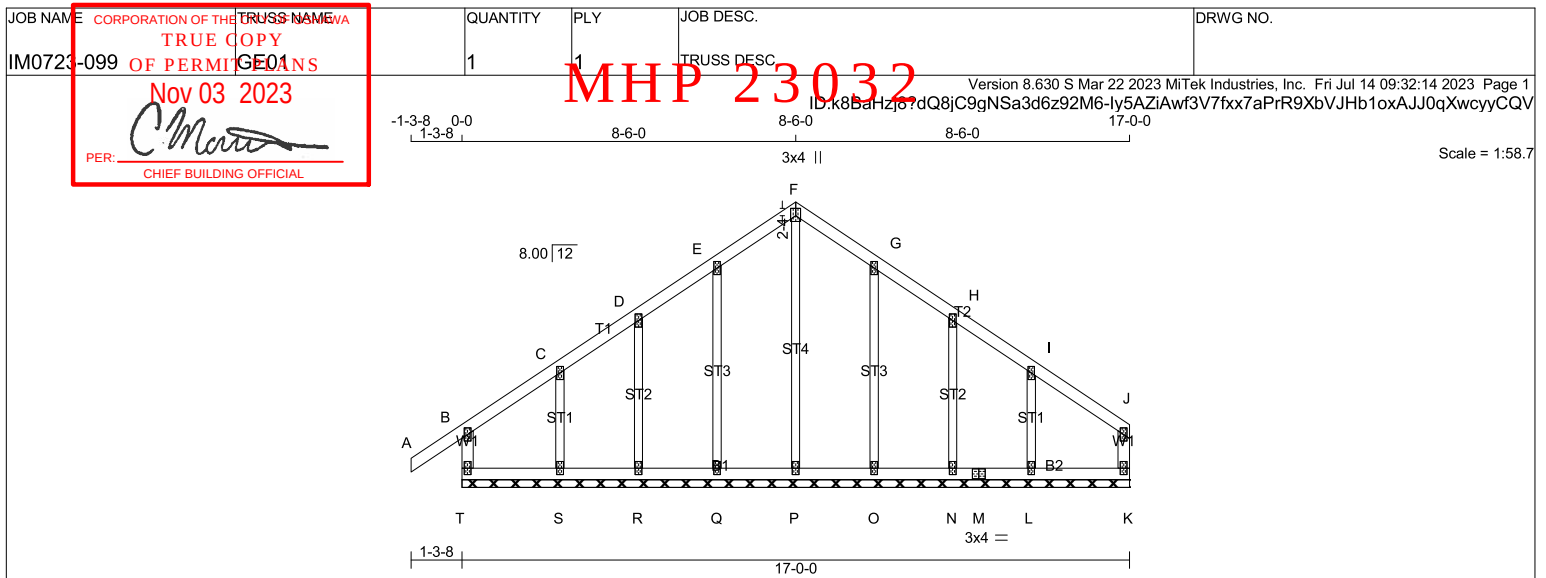
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (A) (INPUT = 0.90)
JSI METAL= 0.78 (A) (INPUT = 1.00)

JULY 14, 2023

READ ALL NOTES ON THIS PAGE AND ON THE
ENGINEERING NOTES: TRUSSES. THE NOTE PAGE
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CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.





LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
T - B	2x4	DRY No.2	SPF
A - F	2x4	DRY No.2	SPF
F - J	2x4	DRY No.2	SPF
K - J	2x4	DRY No.2	SPF
T - M	2x4	DRY No.2	SPF
M - K	2x4	DRY No.2	SPF
ALL WEBS	2x3	DRY No.2	SPF
ALL GABLE WEBS	2x3	DRY No.2	SPF
DRY: SEASONED LUMBER.			

GABLE STUDS SPACED AT 2'-0" OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
C, D, E, G, H, I						
C	TMW+w	MT20	2.0	4.0		
F	TTW+p	MT20	3.0	4.0	2.25	1.50
J	TMV+p	MT20	2.0	4.0		
K	BMV1+p	MT20	2.0	4.0		
L, N, O, P, Q, R, S						
L	BMW1+w	MT20	2.0	4.0		
M	BS-1	MT20	3.0	4.0		
T	BMV1+p	MT20	2.0	4.0		

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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
T-B	-347 / 0	0.0 0.0	0.04 (1)	7.81	P-F	-209 / 0	0.18 (1)
A-B	0 / 45	-119.4 -119.4	0.16 (1)	10.00	Q-E	-242 / 0	0.12 (1)
B-C	-61 / 0	-119.4 -119.4	0.09 (1)	6.25	R-D	-229 / 0	0.07 (1)
C-D	-51 / 0	-119.4 -119.4	0.07 (1)	6.25	S-C	-257 / 0	0.05 (1)
D-E	-42 / 0	-119.4 -119.4	0.06 (1)	6.25	O-G	-242 / 0	0.12 (1)
E-F	-38 / 0	-119.4 -119.4	0.06 (1)	6.25	N-H	-225 / 0	0.06 (1)
F-G	-38 / 0	-119.4 -119.4	0.06 (1)	6.25	L-I	-272 / 0	0.05 (1)
G-H	-41 / 0	-119.4 -119.4	0.06 (1)	6.25			
H-I	-53 / 0	-119.4 -119.4	0.07 (1)	6.25			
I-J	-55 / 0	-119.4 -119.4	0.07 (1)	6.25			
K-J	-172 / 0	0.0 0.0	0.06 (1)	7.81			
T-S	0 / 48	-18.2 -18.2	0.03 (1)	10.00			
S-R	0 / 40	-18.2 -18.2	0.02 (4)	10.00			
R-Q	0 / 35	-18.2 -18.2	0.02 (4)	10.00			
Q-P	0 / 32	-18.2 -18.2	0.02 (4)	10.00			
P-O	0 / 32	-18.2 -18.2	0.02 (4)	10.00			
O-N	0 / 35	-18.2 -18.2	0.02 (4)	10.00			
N-M	0 / 40	-18.2 -18.2	0.02 (4)	10.00			
M-L	0 / 40	-18.2 -18.2	0.02 (4)	10.00			
L-K	0 / 48	-18.2 -18.2	0.02 (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

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

CSI: TC=0.16/0.97 (A-B:1), BC=0.03/0.97 (S-T:1), WB=0.18/0.97 (F-P:1), SSI=0.11/1.00 (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 (PSI)	SECTION (PLI)
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.52 (F) (INPUT = 0.90)

JSI METAL= 0.21 (J) (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.



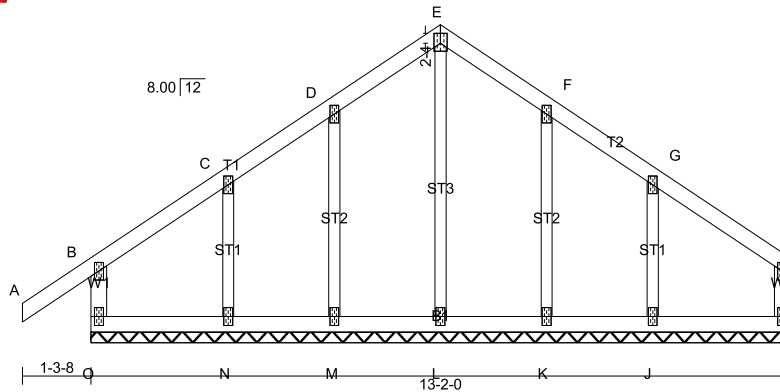
JOB NAME	CORPORATION OF THE TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-099	TRUE COPY OF PERMIT NO. 02 Nov 03 2023 PER: <i>C. Motta</i> CHIEF BUILDING OFFICIAL	1	1	TRUSS DESC.	

MHP 23032

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 14 09:32:15 2023 Page 1

ID: 3suF8DUMbxxFEOWsk3nNlZALn9-m8fZn2BYQNd_H5WK86Mgll8g3hxFXPYSYga5S2yyCQU

Scale = 1:43.4



TOTAL WEIGHT = 52 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
O - B	2x4 DRY	No.2	SPF
A - E	2x4 DRY	No.2	SPF
E - H	2x4 DRY	No.2	SPF
I - H	2x4 DRY	No.2	SPF
O - I	2x4 DRY	No.2	SPF
ALL WEBS	2x3 DRY	No.2	SPF
ALL GABLE WEBS	2x3 DRY	No.2	SPF
DRY: SEASONED LUMBER.			
GABLE STUDS SPACED AT 2-0-0 OC.			

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B TMV+p	MT20	2.0	4.0		
C, D, F, G					
C TMW+w	MT20	2.0	4.0		
E TTW+p	MT20	3.0	4.0	2.25	1.50
H TMV+p	MT20	2.0	4.0		
I BMV1+p	MT20	2.0	4.0		
J, K, L, M, N					
J BMW1+w	MT20	2.0	4.0		
O BMV1+p	MT20	2.0	4.0		

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MAX. LC1 (LC)
FR-TO		FROM TO		FR-TO			
O-B	-354 / 0	0.0	0.05 (1)	L-E	-206 / 0	7.81	0.10 (1)
A-B	0 / 45	-119.4	-119.4 0.16 (1)	M-D	-232 / 0	10.00	0.07 (1)
B-C	-64 / 0	-119.4	-119.4 0.10 (1)	N-C	-262 / 0	6.25	0.05 (1)
C-D	-53 / 0	-119.4	-119.4 0.07 (1)	K-F	-227 / 0	6.25	0.07 (1)
D-E	-43 / 0	-119.4	-119.4 0.06 (1)	J-G	-278 / 0	6.25	0.05 (1)
E-F	-42 / 0	-119.4	-119.4 0.06 (1)				
F-G	-55 / 0	-119.4	-119.4 0.08 (1)				
G-H	-57 / 0	-119.4	-119.4 0.08 (1)				
I-H	-178 / 0	0.0	0.0 0.06 (1)				
O-N	0 / 49	-18.2	-18.2 0.04 (1)				
N-M	0 / 42	-18.2	-18.2 0.02 (4)				
M-L	0 / 37	-18.2	-18.2 0.02 (4)				
L-K	0 / 37	-18.2	-18.2 0.02 (4)				
K-J	0 / 41	-18.2	-18.2 0.03 (4)				
J-I	0 / 50	-18.2	-18.2 0.03 (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

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

CSI: TC=0.16/0.97 (A-B:1), BC=0.04/0.97 (N-O:1)

, WB=0.10/0.97 (E-L:1), SSI=0.11/1.00 (A-B:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.26 (B) (INPUT = 0.90)

JSI METAL= 0.22 (H) (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.



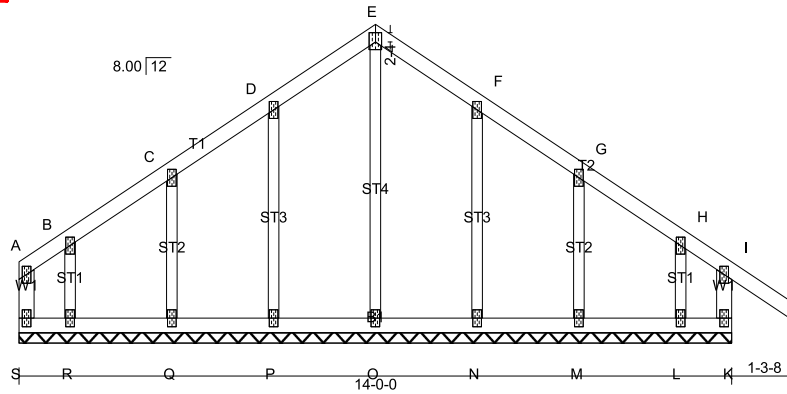
JOB NAME	CORPORATION OF THE TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-099	TRUE COPY OF PERMIT NO. 03 Nov 03 2023 PER: <i>C. M. M. M.</i> CHIEF BUILDING OFFICIAL	1	1	TRUSS DESC.	

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ID: 3sur8DUMbXFEOWsk3nNlIZALn9-ELDx_NCABhmruF5WiqtvEyhr05HZGr3cmKJe?UyyCQT

3x4 II

Scale = 1:45.3



TOTAL WEIGHT = 58 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
S - A	2x4 DRY	No.2	SPF
A - E	2x4 DRY	No.2	SPF
E - J	2x4 DRY	No.2	SPF
K - I	2x4 DRY	No.2	SPF
S - K	2x4 DRY	No.2	SPF
ALL WEBS	2x3 DRY	No.2	SPF
ALL GABLE WEBS	2x3 DRY	No.2	SPF
DRY: SEASONED LUMBER.			
GABLE STUDS SPACED AT 2-0-0 OC.			

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A TMV+p	MT20	2.0	4.0		
B, C, D, F, G, H					
B TMW+w	MT20	2.0	4.0		
E TTW+p	MT20	3.0	4.0	2.25	1.50
I TMV+p	MT20	2.0	4.0		
K BMV1+p	MT20	2.0	4.0		
L, M, N, O, P, Q, R					
L BMW1+w	MT20	2.0	4.0		
S BMV1+p	MT20	2.0	4.0		

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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
S-A	-31 / 0	0.0 0.0	0.01 (1)	7.81	O-E	-268 / 0	0.15 (1)
A-B	0 / 10	-119.4 -119.4	0.04 (1)	10.00	P-D	-242 / 0	0.08 (1)
B-C	0 / 9	-119.4 -119.4	0.06 (1)	10.00	Q-C	-241 / 0	0.05 (1)
C-D	0 / 13	-119.4 -119.4	0.06 (1)	10.00	R-B	-190 / 0	0.03 (1)
D-E	0 / 18	-119.4 -119.4	0.06 (1)	10.00	N-F	-240 / 0	0.08 (1)
E-F	0 / 18	-119.4 -119.4	0.06 (1)	10.00	M-G	-248 / 0	0.05 (1)
F-G	0 / 12	-119.4 -119.4	0.06 (1)	10.00	L-H	-82 / 0	0.01 (1)
G-H	0 / 12	-119.4 -119.4	0.06 (1)	10.00			
H-I	-43 / 0	-119.4 -119.4	0.12 (1)	6.25			
I-J	0 / 45	-119.4 -119.4	0.16 (1)	10.00			
K-I	-296 / 0	0.0 0.0	0.03 (1)	7.81			
S-R	0 / 5	-18.2 -18.2	0.01 (4)	10.00			
R-Q	-4 / 0	-18.2 -18.2	0.02 (4)	10.00			
Q-P	-11 / 0	-18.2 -18.2	0.02 (4)	6.25			
P-O	-15 / 0	-18.2 -18.2	0.01 (4)	6.25			
O-N	-15 / 0	-18.2 -18.2	0.01 (4)	6.25			
N-M	-11 / 0	-18.2 -18.2	0.02 (4)	6.25			
M-L	-4 / 0	-18.2 -18.2	0.02 (4)	10.00			
L-K	0 / 0	-18.2 -18.2	0.03 (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

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

CSI: TC=0.16/0.97 (I-J:1) , BC=0.03/0.97 (K-L:1) , WB=0.15/0.97 (E-O:1) , SSI=0.11/1.00 (I-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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= 0.18 (I) (INPUT = 0.90)
JSI METAL= 0.15 (I) (INPUT = 1.00)

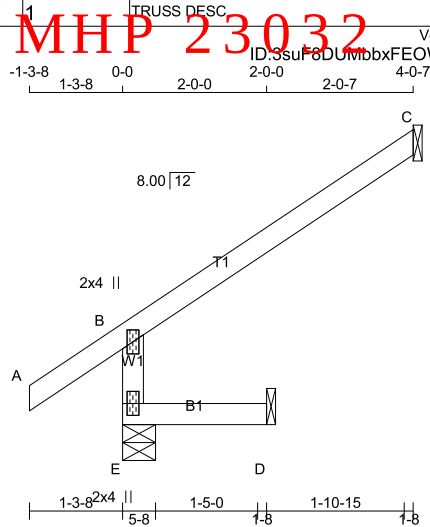


JULY 14, 2023

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. Matijevic</i> CHIEF BUILDING OFFICIAL	1	1	TRUSS DESC.	



TOTAL WEIGHT = 11 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
E	BMV1+p	MT20	2.0	4.0		

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
E	485	0	485	0
C	181	0	181	0
D	17	0	18	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	334	271 / 0	0 / 0	0 / 0	0 / 0	63 / 0	0 / 0
C	124	105 / 0	0 / 0	0 / 0	0 / 0	18 / 0	0 / 0
D	13	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0

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

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 FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
E-B	-465 / 0	0.0	0.0	0.01 (4)	7.81		
A-B	0 / 45	-119.4	-119.4	0.16 (1)	10.00		
B-C	-33 / 0	-119.4	-119.4	0.33 (1)	6.25		
E-D	0 / 0	-18.2	-18.2	0.02 (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

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 (0.00")

CSI: TC=0.33/0.97 (B-C:1), BC=0.02/0.97 (D-E:4), WB=0.00/0.97 (n/a:0), SSI=0.20/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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= 0.29 (B) (INPUT = 0.90)
JSI METAL= 0.24 (B) (INPUT = 1.00)



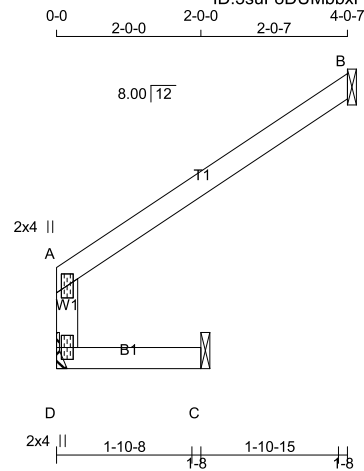
JULY 14, 2023

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	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-099	TRUE COPY OF PERMIT NO. 101A Nov 03 2023 PER:  CHIEF BUILDING OFFICIAL	2	1	TRUSS DESC.	

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Scale: 3/8"=1'

TOTAL WEIGHT = 2 X 9 = 18 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
D	230 0	230 0	0	0
B	213 0	213 0	1-8	1-8
C	76 0	76 0	1-8	1-8

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

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS
D	COMBINED	SNOW	LIVE
D	160	123 / 0	0 / 0
B	145	124 / 0	0 / 0
C	54	34 / 0	0 / 0

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)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO							
D-A	-270 / 0	0.0	0.0	0.14 (1)	7.81		
A-B	-16 / 0	-119.4	-119.4	0.25 (1)	6.25		
D-C	0 / 0	-18.2	-18.2	0.16 (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 (0.19")
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=0.25/0.97 (A-B:1) , BC=0.16/0.97 (C-D:1) ,
WB=0.00/0.97 (n/a:0) , SSI=0.17/1.00 (A-B:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

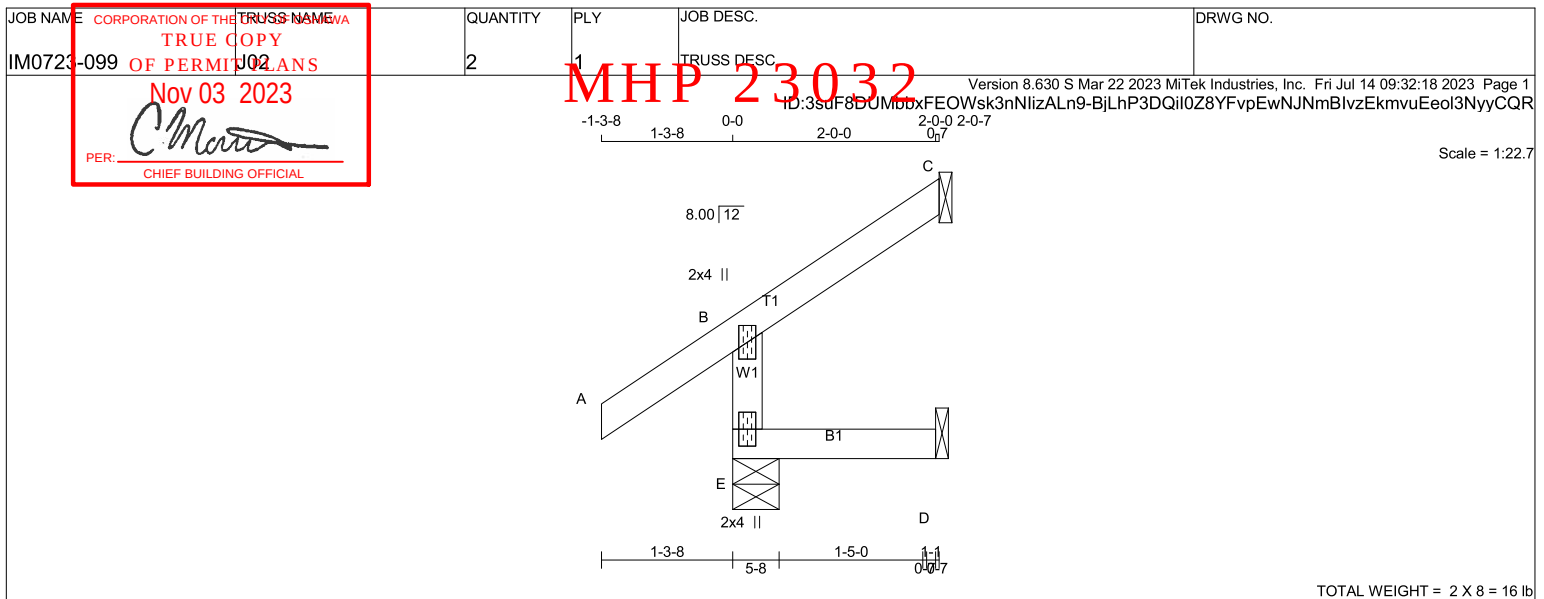
PLATE ROTATION TOL. = 5.0 Deg.

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

JULY 14, 2023

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**LUMBER**

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
E	BMV1+p	MT20	2.0	4.0		

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
E	335	0	335	0
C	92	0	92	0
D	17	0	18	0

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	231	184 / 0	0 / 0	0 / 0	0 / 0	48 / 0	0 / 0
C	63	54 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
D	13	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0

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

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: (5)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 MAX (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH
FR-TO		FROM TO			FR-TO		
E-B	-315 / 0	0.0	0.0	0.01 (4)	7.81		
A-B	0 / 45	-119.4	-119.4	0.16 (1)	10.00		
B-C	-16 / 0	-119.4	-119.4	0.08 (1)	6.25		
E-D	0 / 0	-18.2	-18.2	0.02 (4)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

PATTERN-LOADING CHECK APPLIED TO THIS TRUSS.

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 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 (0.00")

CSI: TC=0.16/0.97 (A-B:1), BC=0.02/0.97 (D-E:4), WB=0.00/0.97 (n/a:0), SSI=0.11/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (B) (INPUT = 0.90)
JSI METAL= 0.16 (B) (INPUT = 1.00)



JULY 14, 2023

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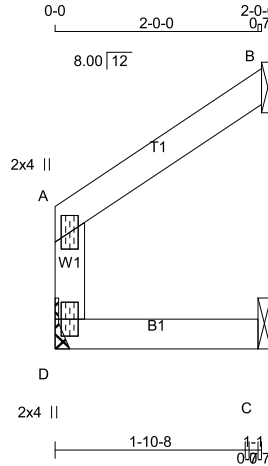


JOB NAME	CORPORATION OF THE TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
IM0723-099	TRUE COPY OF PERMIT NO. 02A Nov 03 2023 PER: <i>C. Morte</i> CHIEF BUILDING OFFICIAL	1	1	TRUSS DESC.	

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ID:3suF8DmmbxFEOWsk3nNlZALn9-fwv3cPE2Tc8Qliq5NyRcsbJOalJKTD92TIYIbpyyCQQ

Scale = 1:22.7



TOTAL WEIGHT = 6 lb

LUMBER	CHORDS	SIZE	LUMBER	DESCR.
N. L. G. A. RULES				
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**

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ
D	140	0	140	0
B	113	0	113	0
C	27	0	27	0

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

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
D	98	71 / 0	0 / 0	0 / 0	0 / 0	27 / 0	0 / 0
B	77	65 / 0	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0
C	20	6 / 0	0 / 0	0 / 0	0 / 0	15 / 0	0 / 0

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)
FR-TO					FR-TO		
D-A	-130 / 0	0.0	0.0	0.02 (1)	7.81		
A-B	-5 / 0	-119.4	-119.4	0.06 (1)	10.00		
D-C	0 / 0	-18.2	-18.2	0.03 (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 (0.19")
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.00")CSI: TC=0.06/0.97 (A-B:1) , BC=0.03/0.97 (C-D:1) ,
WB=0.00/0.97 (n/a:0) , SSI=0.08/1.00 (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 (PSI)	SECTION (PLI)	(PLI)
	MAX	MIN	MAX	MIN
MT20	650	371	1747	788

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

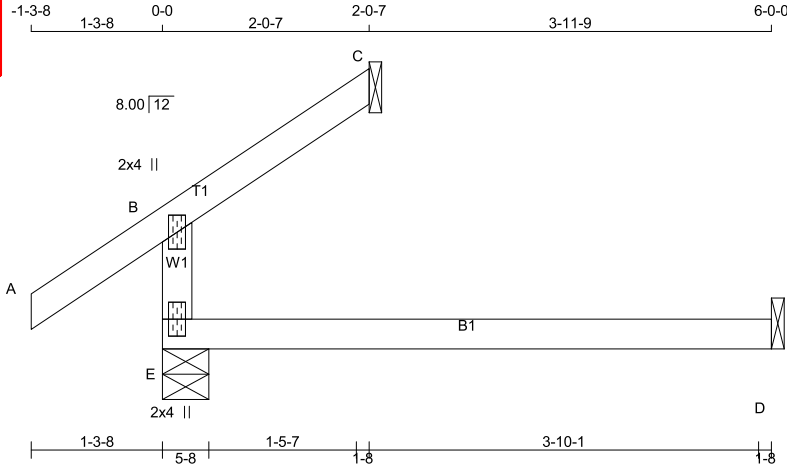
JSI GRIP= 0.08 (A) (INPUT = 0.90)
JSI METAL= 0.07 (A) (INPUT = 1.00)

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. Mante</i> CHIEF BUILDING OFFICIAL	3	1	TRUSS DESC.	



TOTAL WEIGHT = 3 X 13 = 38 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
E	BMV1+p	MT20	2.0	4.0		

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
E	379	0	379	0
C	92	0	92	0
D	46	0	51	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS	WIND	DEAD	SOIL
E	266	184 / 0	0 / 0	83 / 0	0 / 0
C	63	54 / 0	0 / 0	9 / 0	0 / 0
D	37	0 / 0	0 / 0	37 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO			FR-TO		
E-B	-315 / 0	0.0	0.0	0.13 (4)	7.81		
A-B	0 / 45	-119.4	-119.4	0.16 (1)	10.00		
B-C	-16 / 0	-119.4	-119.4	0.08 (1)	6.25		
E-D	0 / 0	-18.2	-18.2	0.14 (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

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 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.16/0.97 (A-B:1), BC=0.14/0.97 (D-E:4), WB=0.00/0.97 (n/a:0), SSI=0.11/1.00 (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) (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= 0.19 (B) (INPUT = 0.90)
JSI METAL= 0.16 (B) (INPUT = 1.00)

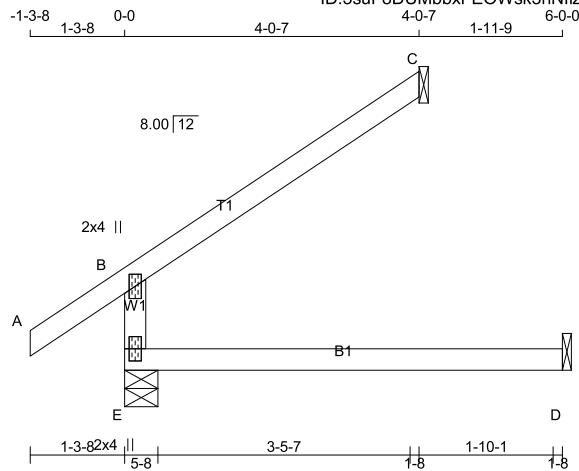


JULY 14, 2023

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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. Matijevic</i> CHIEF BUILDING OFFICIAL	3	1	TRUSS DESC.	



Scale = 1:31.6

TOTAL WEIGHT = 3 X 15 = 46 lb

LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
E	BMV1+p	MT20	2.0	4.0		

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
E	529	0	529	0
C	181	0	181	0
D	46	0	46	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	369	271 / 0	0 / 0	0 / 0	0 / 0	0 / 0	98 / 0	0 / 0
C	124	105 / 0	0 / 0	0 / 0	0 / 0	0 / 0	18 / 0	0 / 0
D	37	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	37 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH
FR-TO		FROM TO			FR-TO		
E-B	-465 / 0	0.0	0.0	0.13 (4)	7.81		
A-B	0 / 45	-119.4	-119.4	0.16 (1)	10.00		
B-C	-33 / 0	-119.4	-119.4	0.33 (1)	6.25		
E-D	0 / 0	-18.2	-18.2	0.14 (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

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 (0.20")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
 ALLOWABLE DEFL.(TL)= L/360 (0.20")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.33/0.97 (B-C:1), BC=0.14/0.97 (D-E:4),
 WB=0.00/0.97 (n/a:0), SSI=0.20/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.29 (B) (INPUT = 0.90)
 JSI METAL= 0.24 (B) (INPUT = 1.00)

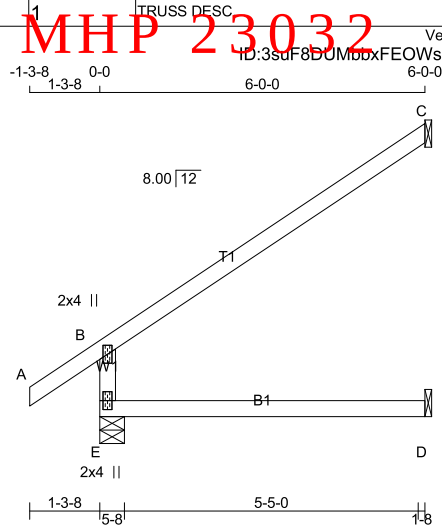


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IM0723-099	TRUE COPY OF PERMIT PLANS Nov 03 2023 PER: <i>C. Mante</i> CHIEF BUILDING OFFICIAL	9	1	TRUSS DESC.	



Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 14 09:32:21 2023 Page 1
ID:3suF8DUMb0xFEOWsk3nNlIZALn9-bl1q15GJ?DO870_TVNT4x0OYa6y5x7eLwc1PgiyyCQO

Scale = 1:42.5

TOTAL WEIGHT = 9 X 18 = 163 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
E	BMV1+p	MT20	2.0	4.0		

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
E	675	0	675	0
C	269	0	269	0
D	46	0	51	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	469	357 / 0	0 / 0	0 / 0	0 / 0	112 / 0	0 / 0
C	184	157 / 0	0 / 0	0 / 0	0 / 0	27 / 0	0 / 0
D	37	0 / 0	0 / 0	0 / 0	0 / 0	37 / 0	0 / 0

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

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 FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO			FR-TO		
E-B	-612 / 0	0.0	0.0	0.13 (4)	7.81		
A-B	0 / 45	-119.4	-119.4	0.16 (1)	10.00		
B-C	-50 / 0	-119.4	-119.4	0.73 (1)	6.25		
E-D	0 / 0	-18.2	-18.2	0.14 (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

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(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

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CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.73/0.97 (B-C:1) , BC=0.14/0.97 (D-E:4) ,
WB=0.00/0.97 (n/a:0) , SSI=0.29/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI)	SHEAR (PLI)	SECTION (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= 0.38 (B) (INPUT = 0.90)
JSI METAL= 0.31 (B) (INPUT = 1.00)



JULY 14, 2023

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