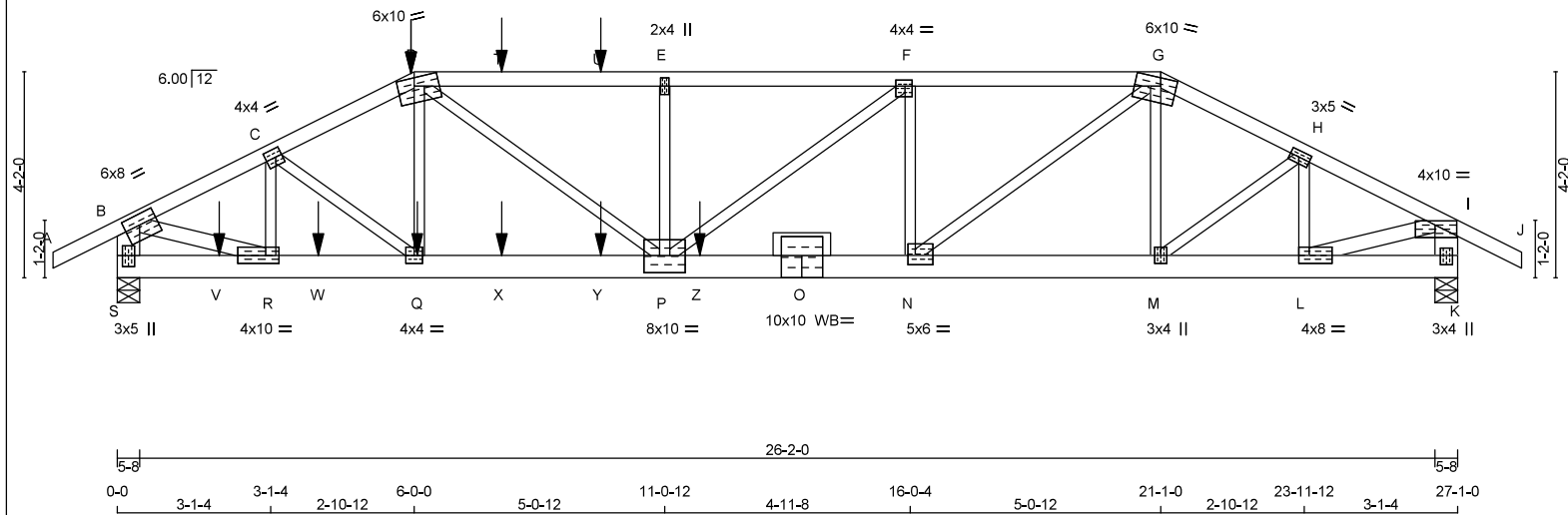


JOB NAME NE0723-109	TRUSS NAME G01	CORPORATION OF THE CITY OF OSHAWA PROTECT COPY OF PERMIT PLANS Nov 04 2023 CHIEF BUILDING OFFICIAL	JOB DESC. GREENPARK - ZADORRA ESTATES - VILLA 3-3	DRWG NO. 1630 S Mar 22 2023 MiTek Industries, Inc. Tue Jul 18 13:55:23 2023 Page 1 ID:mc1cVwUP6XdYyHjzT155Sqz9NHU-5s56qg1w2V9y8?Wf3X5ghgk8LO_ILircaWT8YSywqBo
-1-3-8 0-0 3-1-4 3-1-4 2-10-12 6-0-0 1-0-2 4-11-8 16-0-4 5-0-12 21-1-0 2-10-12 23-11-12 3-1-4 27-1-0 28-4-8 1-3-8 1-3-8 3-1-4 3-1-4 2-10-12 6-0-0 5-0-12 11-0-12 4-11-8 16-0-4 5-0-12 21-1-0 2-10-12 23-11-12 3-1-4 27-1-0		Scale = 1:46.5		



TOTAL WEIGHT = 129 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - G	2x4	DRY	2100F 1.8E	SPF
G - J	2x4	DRY	No.2	SPF
S - B	2x6	DRY	No.2	SPF
K - I	2x6	DRY	No.2	SPF
S - O	2x6	DRY	2100F 1.8E	SPF
O - K	2x6	DRY	2100F 1.8E	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
B - R	2x4	DRY	No.2	SPF
L - I	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMWW-H	MT20	6.0	8.0	2.50 3.75
C	TMWW-H	MT20	4.0	4.0	2.00 1.50
D	TTWW-m	MT20	6.0	10.0	2.00 4.00
E	TMWW-H	MT20	2.0	4.0	
F	TMWW-H	MT20	4.0	4.0	1.50 1.75
G	TTWW-m	MT20	6.0	10.0	2.00 3.75
H	TMWW-H	MT20	3.0	5.0	1.50 2.25
I	TMWW-p	MT20	4.0	10.0	1.00 5.25
K	BMV1+p	MT20	3.0	4.0	2.25 1.50
L	BMWW-H	MT20	4.0	8.0	2.00 2.50
M	BMWW-H	MT20	3.0	4.0	
N	BMWW-H	MT20	5.0	6.0	2.25 1.75
O	BS4	MT20	10.0	10.0	
P	BMWW-H	MT20	8.0	10.0	4.25 5.00
Q	BMWW-H	MT20	4.0	4.0	
R	BMWW-H	MT20	4.0	10.0	2.00 3.25
S	BMV1+p	MT20	3.0	5.0	2.75 1.50

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	REQRD BRG
JT VERT	3766	3766	0	5-8
S	3766	3766	0	5-8
K	3024	3024	0	5-8

UNFACTORED REACTIONS

	1ST CASE	MAX. MIN. COMPONENT REACTIONS		
JT COMBINED	2628	1925 / 0	LIVE	0 / 0
S	2628	1925 / 0	PERM. LIVE	0 / 0
K	2108	1553 / 0	WIND	0 / 0
			DEAD	703 / 0
			SOIL	555 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.39 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	MAX	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD	LC1	MAX	MEMB.	FORCE (LBS)
FR-TO		FROM	TO	CSI (LC)	FR-TO	
A-B	0 / 36	-119.4	-119.4	0.17 (1)	R-C	-1166 / 0
B-C	-4969 / 0	-119.4	-119.4	0.51 (1)	C-D	0 / 730
C-D	-5647 / 0	-119.4	-119.4	0.57 (1)	D-E	-275 / 61
D-E	-7264 / 0	-119.4	-119.4	0.89 (1)	E-F	0 / 2795
E-F	-7264 / 0	-119.4	-119.4	0.89 (1)	F-G	-843 / 0
F-G	-7264 / 0	-119.4	-119.4	0.89 (1)	G-H	0 / 1304
G-H	-7264 / 0	-119.4	-119.4	0.75 (1)	H-I	-1405 / 0
H-I	-7264 / 0	-119.4	-119.4	0.89 (1)	I-J	0 / 2912
I-J	-7264 / 0	-119.4	-119.4	0.41 (1)	J-K	-187 / 12
J-K	-7264 / 0	-119.4	-119.4	0.56 (1)	K-L	0 / 512
K-L	-7264 / 0	-119.4	-119.4	0.41 (1)	L-M	-950 / 0
L-M	-7264 / 0	-119.4	-119.4	0.37 (1)	M-N	0 / 4592
M-N	-7264 / 0	-119.4	-119.4	0.17 (1)	N-O	0 / 3602
N-O	-7264 / 0	-119.4	-119.4	0.26 (1)	O-P	0 / 3602
O-P	-7264 / 0	-119.4	-119.4	0.21 (1)	P-Q	0 / 3602
P-Q	-7264 / 0	-119.4	-119.4	0.21 (1)	Q-R	0 / 3602
Q-R	-7264 / 0	-119.4	-119.4	0.21 (1)	R-S	0 / 3602
R-S	-7264 / 0	-119.4	-119.4	0.21 (1)	S-T	0 / 3602
S-T	-7264 / 0	-119.4	-119.4	0.21 (1)	T-U	0 / 3602
T-U	-7264 / 0	-119.4	-119.4	0.21 (1)	U-V	0 / 3602
U-V	-7264 / 0	-119.4	-119.4	0.21 (1)	V-W	0 / 3602
V-W	-7264 / 0	-119.4	-119.4	0.21 (1)	W-X	0 / 3602
W-X	-7264 / 0	-119.4	-119.4	0.21 (1)	X-Y	0 / 3602
X-Y	-7264 / 0	-119.4	-119.4	0.21 (1)	Y-Z	0 / 3602
Y-Z	-7264 / 0	-119.4	-119.4	0.21 (1)	Z-O	0 / 3602
Z-O	-7264 / 0	-119.4	-119.4	0.21 (1)	O-N	0 / 3602
O-N	-7264 / 0	-119.4	-119.4	0.21 (1)	N-M	0 / 3602
N-M	-7264 / 0	-119.4	-119.4	0.21 (1)	M-L	0 / 3602
M-L	-7264 / 0	-119.4	-119.4	0.21 (1)	L-K	0 / 3602
L-K	-7264 / 0	-119.4	-119.4	0.21 (1)	K-J	0 / 3602
K-J	-7264 / 0	-119.4	-119.4	0.21 (1)	J-I	0 / 3602
J-I	-7264 / 0	-119.4	-119.4	0.21 (1)	I-H	0 / 3602
I-H	-7264 / 0	-119.4	-119.4	0.21 (1)	H-G	0 / 3602
H-G	-7264 / 0	-119.4	-119.4	0.21 (1)	G-F	0 / 3602
G-F	-7264 / 0	-119.4	-119.4	0.21 (1)	F-E	0 / 3602
F-E	-7264 / 0	-119.4	-119.4	0.21 (1)	E-D	0 / 3602
E-D	-7264 / 0	-119.4	-119.4	0.21 (1)	D-C	0 / 3602
D-C	-7264 / 0	-119.4	-119.4	0.21 (1)	C-B	0 / 3602
C-B	-7264 / 0	-119.4	-119.4	0.21 (1)	B-A	0 / 3602
B-A	-7264 / 0	-119.4	-119.4	0.21 (1)	A-B	0 / 3602

MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	MAX	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD	LC1	MAX	MEMB.	FORCE (LBS)
FR-TO		FROM	TO	CSI (LC)	FR-TO	
A-B	0 / 36	-119.4	-119.4	0.17 (1)	R-C	-1166 / 0
B-C	-4969 / 0	-119.4	-119.4	0.51 (1)	C-D	0 / 730
C-D	-5647 / 0	-119.4	-119.4	0.57 (1)	D-E	-275 / 61
D-E	-7264 / 0	-119.4	-119.4	0.89 (1)	E-F	0 / 2795
E-F	-7264 / 0	-119.4	-119.4	0.89 (1)	F-G	-843 / 0
F-G	-7264 / 0	-119.4	-119.4	0.89 (1)	G-H	0 / 1304
G-H	-7264 / 0	-119.4	-119.4	0.75 (1)	H-I	-1405 / 0
H-I	-7264 / 0	-119.4	-119.4	0.89 (1)	I-J	0 / 2912
I-J	-7264 / 0	-119.4	-119.4	0.41 (1)	J-K	-187 / 12
J-K	-7264 / 0	-119.4	-119.4	0.56 (1)	K-L	0 / 512
K-L	-7264 / 0	-119.4	-119.4	0.41 (1)	L-M	-950 / 0
L-M	-7264 / 0	-119.4	-119.4	0.37 (1)	M-N	0 / 4592
M-N	-7264 / 0	-119.4	-119.4	0.17 (1)	N-O	0 / 3602
N-O	-7264 / 0	-119.4	-119.4	0.26 (1)	O-P	0 / 3602
O-P	-7264 / 0	-119.4	-119.4	0.21 (1)	P-Q	0 / 3602
P-Q	-7264 / 0	-119.4	-119.4	0.21 (1)	Q-R	0 / 3602
Q-R	-7264 / 0	-119.4	-119.4	0.21 (1)	R-S	0 / 3602
R-S	-7264 / 0	-119.4	-119.4	0.21 (1)	S-T	0 / 3602
S-T	-7264 / 0	-119.4	-119.4	0.21 (1)	T-U	0 / 3602
T-U	-7264 / 0	-119.4	-119.4	0.21 (1)	U-V	0 / 3602
U-V	-7264 / 0	-119.4	-119.4	0.21 (1)	V-W	0 / 3602
V-W	-7264 / 0	-119.4	-119.4	0.21 (1)	W-X	0 / 3602
W-X	-7264 / 0	-119.4	-119.4	0.21 (1)	X-Y	0 / 3602
X-Y	-7264 / 0	-119.4	-119.4	0.21 (1)	Y-Z	0 / 3602
Y-Z	-7264 / 0	-119.4	-119.4	0.21 (1)	Z-O	0 / 3602
Z-O	-7264 / 0	-119.4	-119.4	0.21 (1)	O-N	0 / 3602
O-N	-7264 / 0	-119.4	-119.4	0.21 (1)	N-M	0 / 3602
N-M	-7264 / 0	-119.4	-119.4	0.21 (1)	M-L	0 / 3602
M-L	-7264 / 0	-119.4	-119.4	0.21 (1)	L-K	0 / 3602
L-K	-7264 / 0	-119.4	-119.4	0.21 (1)	K-J	0 / 3602
K-J	-7264 / 0	-119.4	-119.4	0.21 (1)	J-I	0 / 3602
J-I	-7264 / 0	-119.4	-119.4	0.21 (1)	I-H	0 / 3602
I-H	-7264 / 0	-119.4	-119.4	0.21 (1)	H-G	0 / 3602
H-G	-7264 / 0	-119.4	-119.4	0.21 (1)	G-F	0 / 3602
G-F	-7264 / 0	-119.4	-119.4	0.21 (1)	F-E	0 / 3602
F-E	-7264 / 0	-119.4	-119.4	0.21 (1)	E-D	0 / 3602
E-D	-7264 / 0	-119.4	-119.4	0.21 (1)	D-C	0 / 3602
D-C	-7264 / 0	-119.4	-119.4	0.21 (1)	C-B	0 / 3602
C-B	-7264 / 0	-119.4	-119.4	0.21 (1)	B-A	0 / 3602
B-A	-7264 / 0	-119.4	-119.4	0.21 (1)	A-B	0 / 3602

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	6-0-0	-418	-418	—	FRONT	VERT	TOTAL	—	C1
Q	6-0-12	-22	-22	—	FRONT	VERT	TOTAL	—	C1
T	7-9-4	-102	-102	—	FRONT	VERT	TOTAL	—	C1
U	9-9-4	-102	-102	—	FRONT	VERT	TOTAL	—	C1
V	2-0-12	-22	-22	—	FRONT	VERT	TOTAL	—	C1
W	4-0-12	-22	-22	—	FRONT	VERT	TOTAL	—	C1
X	7-9-4	-22	-22	—	FRONT	VERT	TOTAL	—	C1
Y	9-9-4	-22	-22	—	FRONT	VERT	TOTAL	—	C1
Z	11-9-4	-1179	-1179	—	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/C

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

*** 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 (0.90")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.28")
 ALLOWABLE DEFL.(TL) = L/360 (0.90")
 CALCULATED VERT. DEFL.(TL) = L/696 (0.47")

CSI: TC=0.89/0.97 (D-E-1), BC=0.87/0.97 (N-P-1),
 WB=0.81/0.97 (B-R-1), SSI=1.00/1.00 (N-P-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PS)	(PL)	(PL)
MT20	650	371	1747
	650	371	1747

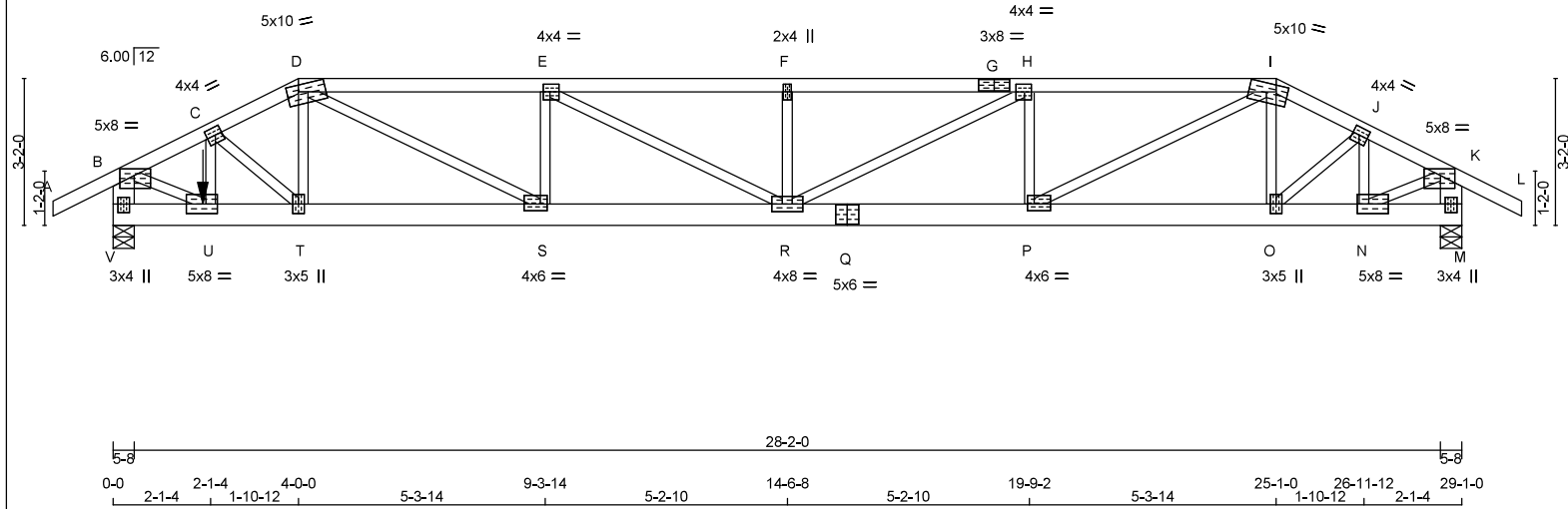
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (N) (INPUT = 0.90)
 JSI METAL= 0.95 (O) (INPUT = 1.00)



JOB NAME NE0723-109	TRUSS NAME G02	CORPORATION OF THE CITY OF OSHAWA TRUE COPY OF PERMIT PLANS NOV 04 2023 CHIEF BUILDING OFFICIAL	JOB DESC. GREENPARK - ZADORRA ESTATES - VILLA 3-3	DRWG NO.
ID: mC1cWxUP6xdYyHjz1155Sqz9NH0-Z2eU20YppHpl85udFcvEtHNmoli48PlpADI4uywqBn Version: 1.630 S Mar 22 2023 MiTek Industries, Inc. Tue Jul 18 13:55:24 2023 Page 1				
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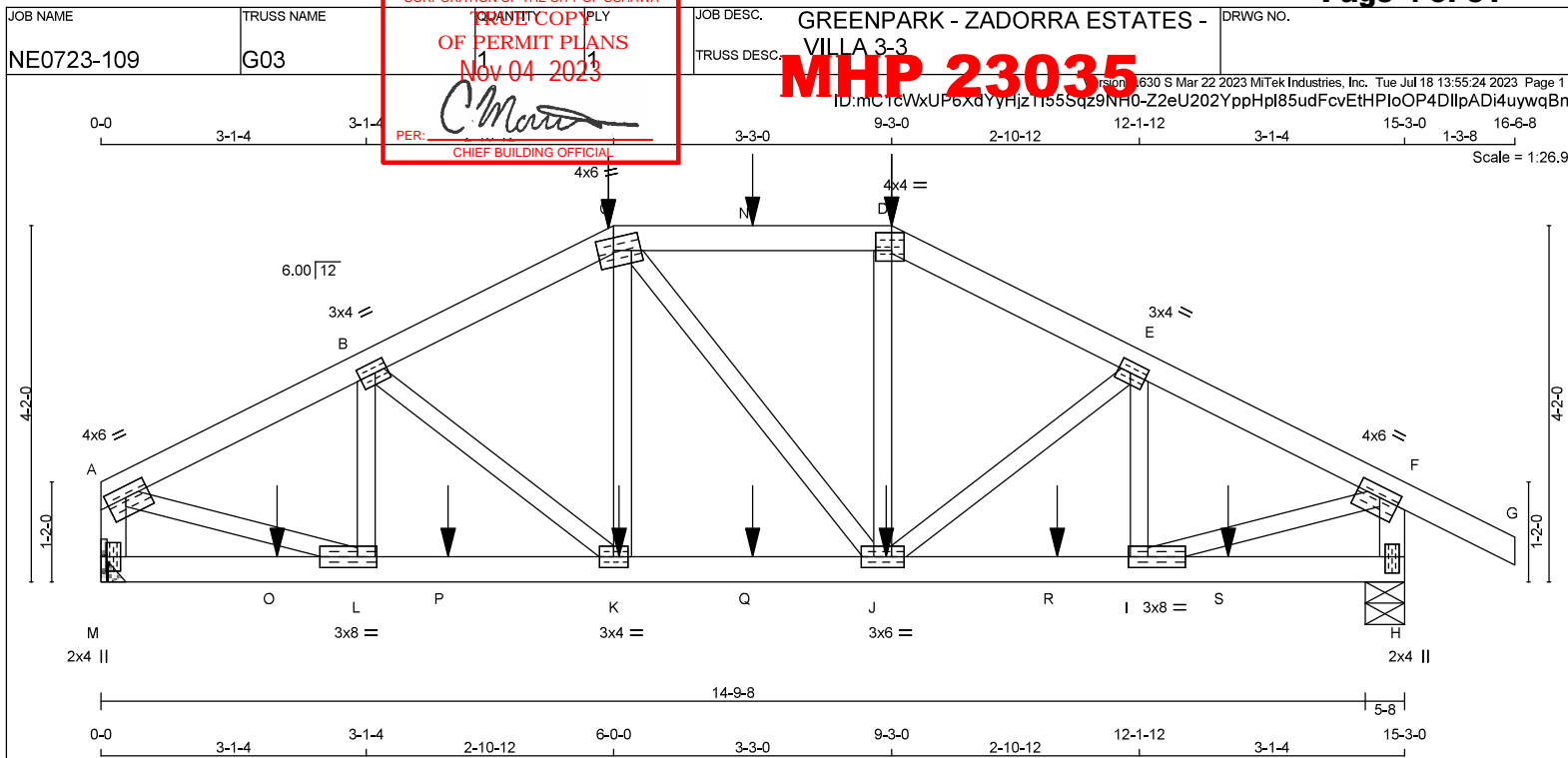


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READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





LUMBER

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMWW4	MT20	4.0	6.0	1.50	2.75
B	TMWW4	MT20	3.0	4.0	1.50	1.75
C	TMWW4-m	MT20	4.0	6.0	1.75	2.25
D	TTWW4	MT20	4.0	4.0	2.50	2.25
E	TMWW4	MT20	3.0	4.0	1.50	1.75
F	TMWW4	MT20	4.0	6.0	1.50	2.75
H	BMV1+p	MT20	2.0	4.0	2.25	1.00
I	BMWW4	MT20	3.0	8.0	1.50	2.75
J	BMWW4	MT20	3.0	6.0		
K	BMWW4	MT20	3.0	4.0		
L	BMWW4	MT20	3.0	8.0	1.50	2.75
M	BMV1+p	MT20	2.0	4.0		

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

DESIGNER

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT VERT	HORZ	DOWN	HORZ	UPLIFT
M	1830	0	1830	0
H	1992	0	1992	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT M. MINIMUM BEARING LENGTH AT JOINT M = 2-7.

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
M	1278	926 / 0	0 / 0	0 / 0	0 / 0	352 / 0	0 / 0
H	1389	1021 / 0	0 / 0	0 / 0	0 / 0	368 / 0	0 / 0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO			
A-B	-2345 / 0	-119.4	-119.4 0.23 (1)	4.19	L-B	-497 / 0	0.09 (1)
B-C	-2434 / 0	-119.4	-119.4 0.24 (1)	4.12	B-K	-15 / 64	0.02 (1)
C-N	-2163 / 0	-119.4	-119.4 0.50 (1)	3.92	K-C	0 / 124	0.05 (4)
N-D	-2163 / 0	-119.4	-119.4 0.50 (1)	3.92	C-J	0 / 0	0.00 (1)
D-E	-2435 / 0	-119.4	-119.4 0.24 (1)	4.12	J-D	0 / 125	0.05 (4)
E-F	-2345 / 0	-119.4	-119.4 0.23 (1)	4.19	J-E	-14 / 65	0.02 (1)
F-G	0 / 36	-119.4	-119.4 0.17 (1)	10.00	I-E	-498 / 0	0.09 (1)
M-A	-1792 / 0	0.0	0.0 0.20 (1)	6.12	A-L	0 / 2190	0.54 (1)
H-F	-1953 / 0	0.0	0.0 0.22 (1)	5.90	I-F	0 / 2190	0.54 (1)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)
M-O	0 / 0	-18.2	-18.2 0.06 (4)	10.00		
O-L	0 / 0	-18.2	-18.2 0.06 (4)	10.00		
L-P	0 / 2111	-18.2	-18.2 0.42 (1)	10.00		
P-K	0 / 2111	-18.2	-18.2 0.42 (1)	10.00		
K-Q	0 / 2163	-18.2	-18.2 0.42 (1)	10.00		
Q-J	0 / 2163	-18.2	-18.2 0.42 (1)	10.00		
J-R	0 / 2111	-18.2	-18.2 0.42 (1)	10.00		
R-I	0 / 2111	-18.2	-18.2 0.42 (1)	10.00		
I-S	0 / 0	-18.2	-18.2 0.06 (4)	10.00		
S-H	0 / 0	-18.2	-18.2 0.06 (4)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	6-0-0	-418	-418	—	FRONT	VERT	TOTAL	— C1
D	9-3-0	-418	-418	—	FRONT	VERT	TOTAL	— C1
J	9-2-4	-22	-22	—	FRONT	VERT	TOTAL	— C1
K	6-0-12	-22	-22	—	FRONT	VERT	TOTAL	— C1
N	7-7-8	-102	-102	—	FRONT	VERT	TOTAL	— C1
O	2-0-12	-22	-22	—	FRONT	VERT	TOTAL	— C1
P	4-0-12	-22	-22	—	FRONT	VERT	TOTAL	— C1
Q	7-7-8	-22	-22	—	FRONT	VERT	TOTAL	— C1
R	11-2-4	-22	-22	—	FRONT	VERT	TOTAL	— C1
S	13-2-4	-22	-22	—	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/C

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

*** 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 (0.51")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.51")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.50/0.97 (C-D-1), BC=0.42/0.97 (J-K-1),
WB=0.54/0.97 (A-L-1), SSI=0.23/1.00 (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)
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (M) (INPUT = 0.90)
JSI METAL = 0.59 (F) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 146 = 291 lb

SOL METAL= 0.55 (0) (INI ST = 1.00)

JOB NAME	TRUSS NAME	CORPORATION OF THE CITY OF OSHAWA PERMIT COPY OF PERMIT PLANS NOV 04 2023 1 2	JOB DESC.	GREENPARK - ZADORRA ESTATES - VILLA 3-3	DRWG NO.
NE0723-109	G04		TRUSS DESC.		

PER: *C. M. M. M.*
CHIEF BUILDING OFFICIAL

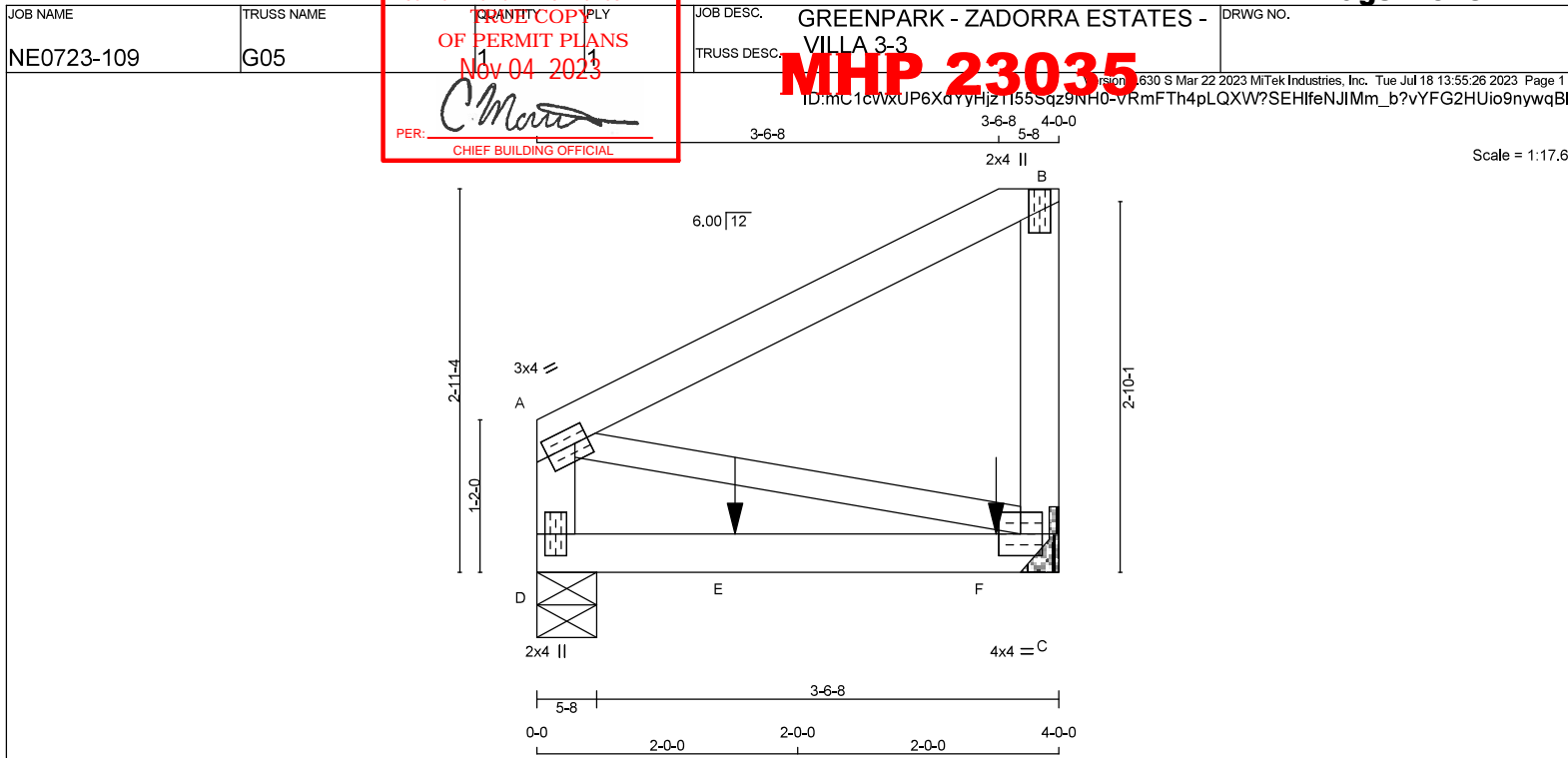
PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	10.0	2.00	4.25
C	TMWW-t	MT20	3.0	4.0	1.50	1.75
D	TTWW-m	MT20	5.0	8.0	1.75	4.00
E	TMW-w	MT20	2.0	4.0		
F	TMWW-t	MT20	4.0	4.0	1.50	1.75
G	TTWW-m	MT20	6.0	8.0	2.25	3.25
H	TMWW-t	MT20	3.0	4.0	1.50	1.75
I	TMVW-t	MT20	4.0	8.0	1.75	3.75
K	BMV1+p	MT20	3.0	4.0		
L	BMWW-t	MT20	5.0	6.0	2.50	1.75
M	BMWW-t	MT20	3.0	4.0		
N	BMWW-t	MT20	4.0	5.0	2.00	1.50
O	BS-t	MT20	4.0	6.0		
P	BMWW-t	MT20	6.0	8.0	4.25	1.50
Q	BMWW-t	MT20	4.0	4.0	1.75	1.75
R	BMWW-t	MT20	8.0	8.0	4.00	3.75
S	BMV1-t	MT20	6.0	8.0	5.50	



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CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 16 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
A - B	2x4	DRY No.2
C - B	2x4	DRY No.2
D - A	2x4	DRY No.2
D - C	2x4	DRY 2100F 1.8E

ALL WEBS 2x3 DRY: SEASONED LUMBER.

DESCR.

SPF
SPF
SPF
SPF**PLATES (table is in inches)**

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW4	MT20	3.0	4.0	1.50	1.25
B	TMV+p	MT20	2.0	4.0		
C	BMVW1+t	MT20	4.0	4.0		
D	BMV1+p	MT20	2.0	4.0		

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

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
C	1081	0	1081	0	0	MECHANICAL	
D	746	0	746	0	0	5-8	1-8

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
C	753	556 / 0	0 / 0	0 / 0	0 / 0	197 / 0	0 / 0
D	520	384 / 0	0 / 0	0 / 0	0 / 0	136 / 0	0 / 0

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

BEARING SIZE FACTOR = 1.15 AT JNT(S) D (BASED ON SUPPORT DEPTH = 1-8)

BRACING

TOP 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)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORIZ. LOAD (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (PLF)
FR-TO					FR-TO		
A-B	0 / 0	-119.4	-119.4	0.36 (1)	A-C	0 / 0	0.00 (1)
C-B	-239 / 0	0.0	0.0	0.04 (1)			
D-A	-239 / 0	0.0	0.0	0.03 (1)			
D-E	0 / 0	-18.2	-18.2	0.74 (1)			
E-F	0 / 0	-18.2	-18.2	0.74 (1)			
F-C	0 / 0	-18.2	-18.2	0.74 (1)			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	1-6-4	-442	-442		BACK	VERT	TOTAL		C1
F	3-6-4	-446	-446		BACK	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/C

*** NON STANDARD GIRDER ***

ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF 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 (0.18")

CALCULATED VERT. DEFL.(LL) = L/477 (0.10")

ALLOWABLE DEFL.(TL) = L/360 (0.18")

CALCULATED VERT. DEFL.(TL) = L/360 (0.18")

CSI: TC=0.36/0.97 (A-B-1), BC=0.74/0.97 (C-D-1), WB=0.00/0.97 (A-C-1), SS=0.72/1.00 (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

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (A) (INPUT = 0.90)

JSI METAL= 0.10 (B) (INPUT = 1.00)



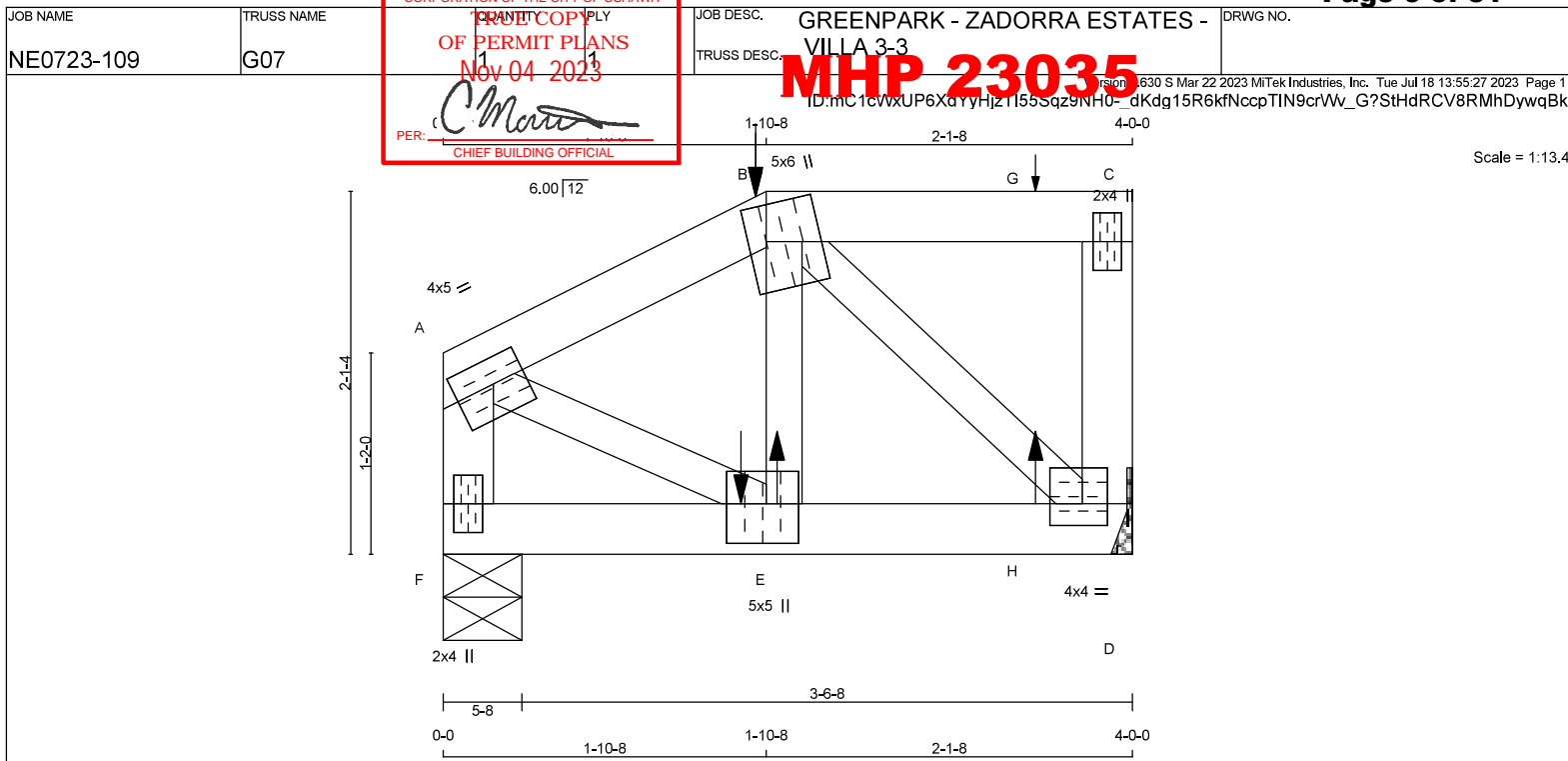
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TOTAL WEIGHT = 18 lb

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





TOTAL WEIGHT = 17 lb

LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY No.2
 EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW4	MT20	4.0	5.0	1.75	2.25
B	TTWW+m	MT20	5.0	6.0	2.50	1.25
C	TMV+p	MT20	2.0	4.0		
D	BMVW14	MT20	4.0	4.0	1.50	1.75
E	BMVW14	MT20	5.0	5.0	2.75	2.25
F	BMV1+p	MT20	2.0	4.0		

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

DESIGNER

BEARINGS

DESCR.	SPF	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
D	1207	0	1207	0	0
F	1237	0	1237	0	0

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
D	843	615 / 0	0 / 0	0 / 0	0 / 0	228 / 0	0 / 0
F	863	631 / 0	0 / 0	0 / 0	0 / 0	232 / 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 = 5.53 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)
FR-TO		FROM	TO	LENGTH	FR-TO		
A-B	-1284 / 0	-119.4	-119.4	0.10 (1)	5.53	E-B	0 / 1315
B-G	0 / 0	-119.4	-119.4	0.10 (1)	10.00	B-D	-1603 / 0
G-C	0 / 0	-119.4	-119.4	0.10 (1)	10.00	A-E	0 / 1249
D-C	-127 / 0	0.0	0.0	0.02 (1)	7.81		
F-A	-1187 / 0	0.0	0.0	0.13 (1)	7.22		
F-E	0 / 0	-18.2	-18.2	0.09 (1)	10.00		
E-H	0 / 1222	-18.2	-18.2	0.31 (1)	10.00		
H-D	0 / 1222	-18.2	-18.2	0.31 (1)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
B	1-10-8	-44	-44		BACK	VERT	TOTAL		C1
E	1-8-12	-1288	-1288		FRONT	VERT	TOTAL		C1
E	1-11-4	6	1	6	BACK	VERT	TOTAL		C1
G	3-5-4	1	1		BACK	VERT	TOTAL		C1
H	3-5-4	6	1	6	BACK	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/C

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

*** 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) = $L/360$ (0.19")
 CALCULATED VERT. DEFL.(LL) = $L/999$ (0.01")
 ALLOWABLE DEFL.(TL) = $L/360$ (0.19")
 CALCULATED VERT. DEFL.(TL) = $L/999$ (0.02")

CSI: TC=0.13/0.97 (A-F:1), BC=0.31/0.97 (D-E:1),
 WB=0.33/0.97 (B-E:1), SSI=0.11/1.00 (B-C: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 (PSI)	SECTION (PLI)	MIN	MAX
MT20	650	371	1747	788	1987

PLATE PLACEMENT TOL. = 0.250 inches

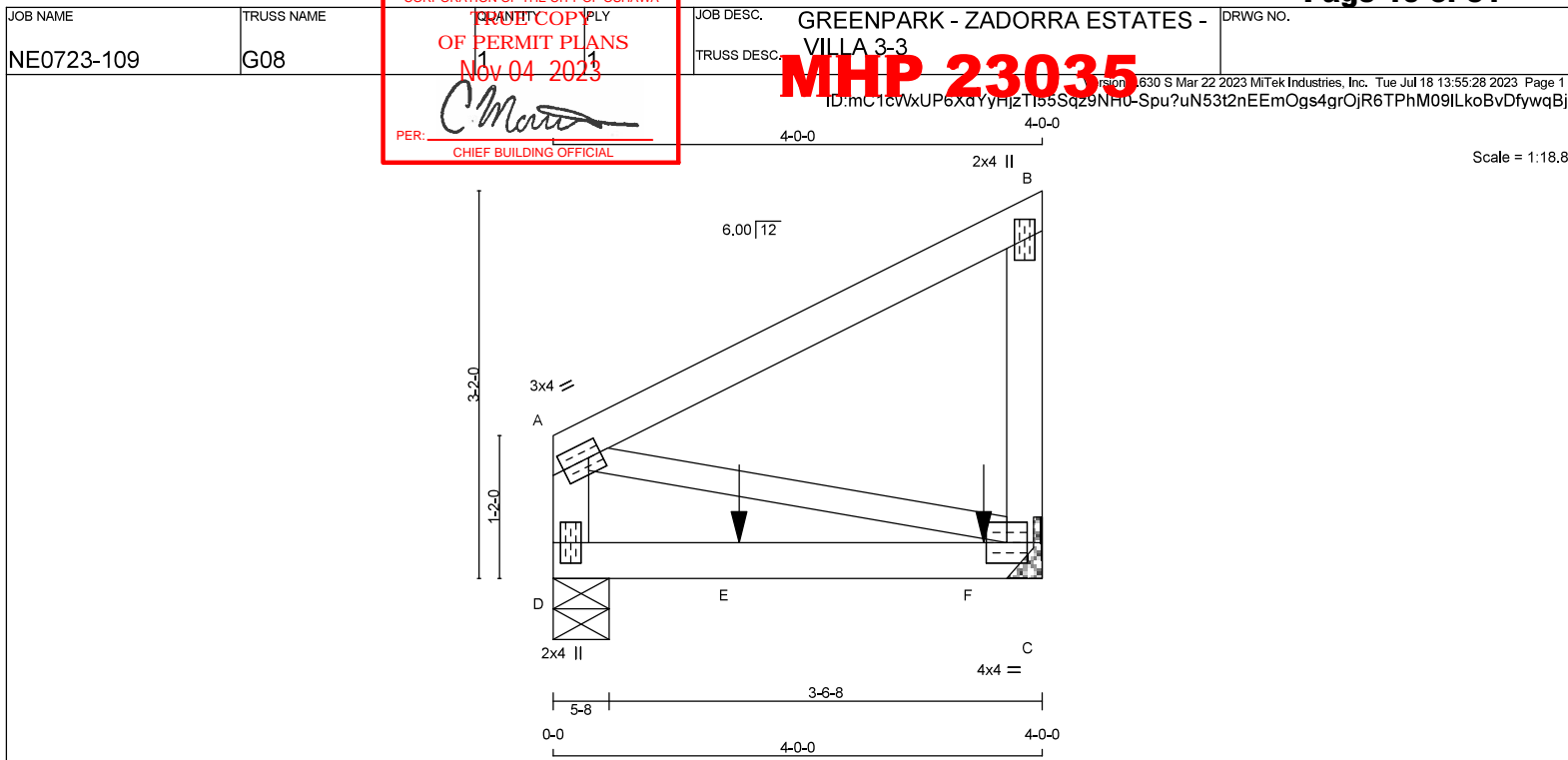
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (B) (INPUT = 0.90)
 JSI METAL = 0.43 (B) (INPUT = 1.00)



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.





LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - B	2x4	DRY	No.2
C - B	2x4	DRY	No.2
D - A	2x4	DRY	No.2
D - C	2x4	DRY	2100F 1.8E
ALL WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	3.0	4.0	1.50	1.25
B	TMV+p	MT20	2.0	4.0		
C	BMVW1-t	MT20	4.0	4.0		
D	BMV1+p	MT20	2.0	4.0		

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

DESIGNER BEARINGS							
FACTORED GROSS REACTION			MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQ'D BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
C	1081	0	1081	0	0	MECHANICAL	
D	746	0	746	0	0	5-8	1-8

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
C	753	556 / 0	0 / 0	0 / 0	0 / 0	197 / 0	0 / 0
D	520	384 / 0	0 / 0	0 / 0	0 / 0	136 / 0	0 / 0

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

BRACING

TOP 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)

CHORDS				WEBBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		
A-B	0 / 0	-119.4	-119.4	0.36 (1)	10.00		
C-B	-239 / 0	0.0	0.0	0.04 (1)	7.81	A-C	0 / 0
D-A	-239 / 0	0.0	0.0	0.03 (1)	7.81		0.00 (1)
D-E	0 / 0	-18.2	-18.2	0.74 (1)	10.00		
E-F	0 / 0	-18.2	-18.2	0.74 (1)	10.00		
F-C	0 / 0	-18.2	-18.2	0.74 (1)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	1-6-4	-442	-442	—	FRONT	VERT	TOTAL	—	C1
F	3-6-4	-446	-446	—	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/C

*** 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 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 477 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 360 (0.18")

CSI: TC=0.36/0.97 (A-B:1), BC=0.74/0.97 (C-D:1),
WB=0.00/0.97 (A-C:1), SSI=0.72/1.00 (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) (PSI)		SHEAR (PLI)		SECTION (PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	650	371	1747	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

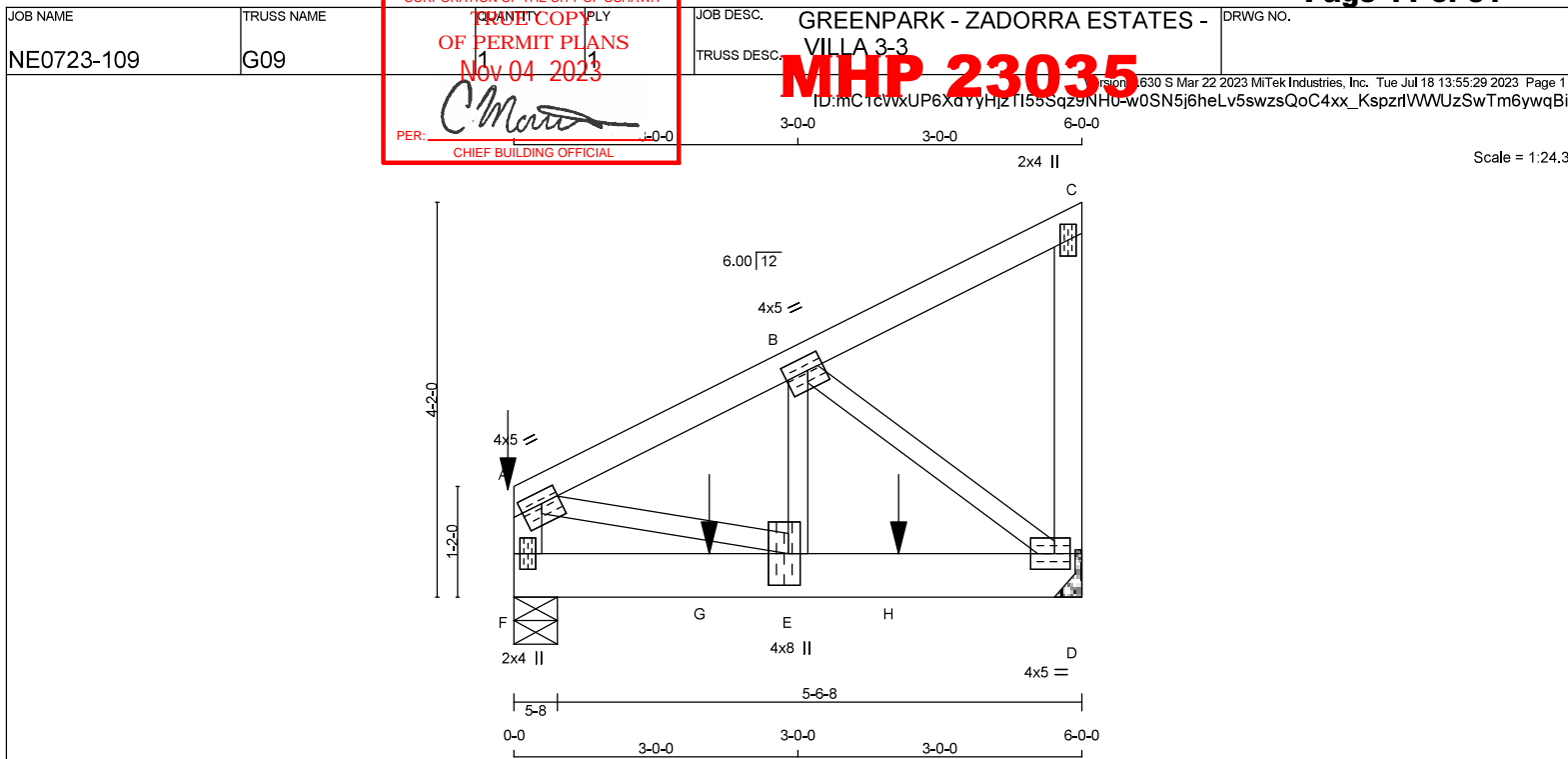
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (A) (INPUT = 0.90)
JSI METAL= 0.10 (B) (INPUT = 1.00)



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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.
A - C	2x4	DRY	No.2	SPF
D - C	2x4	DRY	No.2	SPF
F - A	2x4	DRY	No.2	SPF
F - D	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)				W	LEN	Y	X
JT	TYPE	PLATES					
A	TMVW-t	MT20	4.0	5.0	1.50	2.25	
B	TMVW-t	MT20	4.0	5.0	1.75	2.00	
C	TMV+p	MT20	2.0	4.0			
D	BMVW-t	MT20	4.0	5.0	2.00	2.00	
E	BMVW-t	MT20	4.0	8.0	4.00	1.50	
F	BMV+1p	MT20	2.0	4.0			

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

DESIGNER		FACTORED		MAXIMUM FACTORED			INPUT	REQD
BEARINGS		GROSS REACTION		GROSS REACTION		BRG	BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
D	1711	0	1711	0	0	MECHANICAL		
F	1213	0	1213	0	0	5-8	1-8	

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 1-14.

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
D	1193	878 / 0	0 / 0	0 / 0	0 / 0	316 / 0	0 / 0
F	846	622 / 0	0 / 0	0 / 0	0 / 0	224 / 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 = 5.09 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				WEBBS				
MEMB.	MAX. FACTORED (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM TO		LENGTH	FR-TO			
A-B	-1503 / 0	-119.4	-119.4	0.19 (1)	5.09	E-B	0 / 1281	0.32 (1)
B-C	-15 / 0	-119.4	-119.4	0.15 (1)	6.25	B-D	-1704 / 0	0.42 (1)
D-C	-145 / 0	0.0	0.0	0.04 (1)	7.81	A-E	0 / 1402	0.35 (1)
F-A	-1253 / 0	0.0	0.0	0.14 (1)	7.06			
F-G	0 / 0	-18.2	-18.2	0.29 (1)	10.00			
G-E	0 / 0	-18.2	-18.2	0.29 (1)	10.00			
E-H	0 / 1358	-18.2	-18.2	0.92 (1)	10.00			
H-D	0 / 1358	-18.2	-18.2	0.92 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
A	0-0	-56	-56	—	TOP	VERT	TOTAL	—	C1
G	2-0-12	-142	-142	—	FRONT	VERT	TOTAL	—	C1
H	4-0-12	-1264	-1264	—	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/C

*** 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 BCRC 2018, NBC 2010AE

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=0.19/0.97 (A-B:1) , BC=0.92/0.97 (D-E:1) ,
WB=0.42/0.97 (B-D:1) , SSI=0.88/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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	MIN	MAX	MIN
MT20	650	371	1747	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

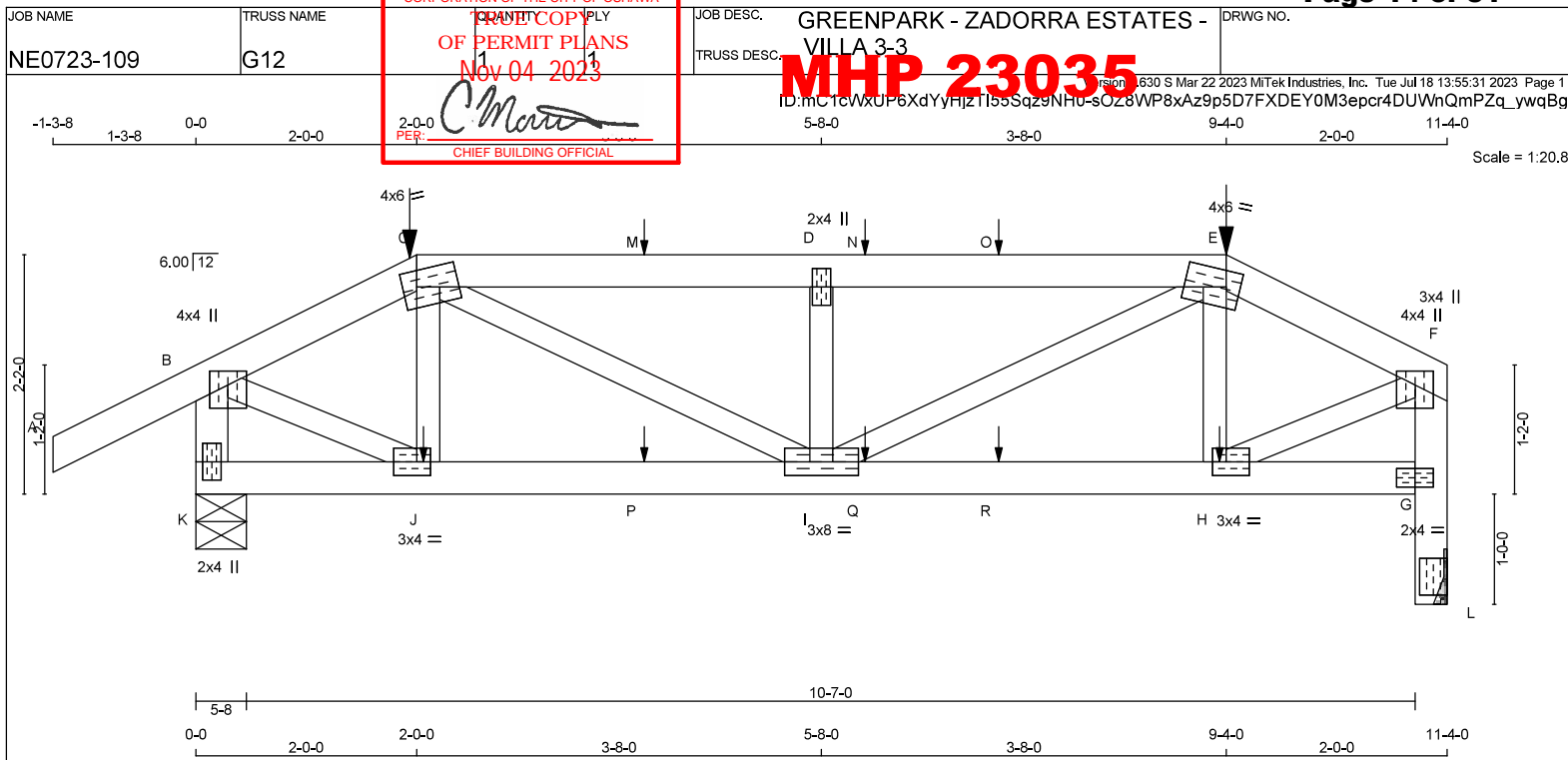
JSI GRIP= 0.88 (B) (INPUT = 0.90)
JSI METAL= 0.61 (E) (INPUT = 1.00)



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IN THE DESIGN OF THIS COMPONENT.**







TOTAL WEIGHT = 44 lb

LUMBER

N. L. G. A. RULES			
CHORDS	SIZE		LUMBER
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
K - B	2x4	DRY	No.2
L - F	2x4	DRY	No.2
K - 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	TMVW+p	MT20	4.0	4.0	1.50	2.00
C	TTVVW-m	MT20	4.0	6.0	1.75	1.50
D	TMVW-w	MT20	2.0	4.0		
E	TTVVW-m	MT20	4.0	6.0	1.75	1.50
F	TMVW+p	MT20	4.0	4.0	1.50	2.00
G	BMVH	MT20	2.0	4.0		
H	BMVW-H	MT20	3.0	4.0	1.50	1.50
I	BMVW-H	MT20	3.0	8.0		
J	BMVW-H	MT20	3.0	4.0	1.50	1.50
K	BMV1+p	MT20	2.0	4.0		
L	EBSP-t	MT20	3.0	4.0		1.00

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
K	946	0	946	0
L	784	0	784	0

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

UNFACTORED REACTIONS

1ST LOASE	MAX./MIN. COMPONENT REACTIONS
JT	COMBINED
K	659
L	548

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.29 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 (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)
FR-TO					J-C		
A-B	0 / 36	-119.4	-119.4	0.17 (1)	10.00	-224 / 0	0.04 (1)
B-C	-803 / 0	-119.4	-119.4	0.10 (1)	6.25	0 / 633	0.16 (1)
C-M	-1269 / 0	-119.4	-119.4	0.29 (1)	5.29	-525 / 0	0.09 (1)
M-D	-1269 / 0	-119.4	-119.4	0.29 (1)	5.29	0 / 633	0.16 (1)
D-N	-1269 / 0	-119.4	-119.4	0.29 (1)	5.29	-224 / 0	0.04 (1)
N-O	-1269 / 0	-119.4	-119.4	0.29 (1)	5.29	0 / 774	0.19 (1)
O-E	-1269 / 0	-119.4	-119.4	0.29 (1)	5.29	0 / 774	0.19 (1)
E-F	-803 / 0	-119.4	-119.4	0.10 (1)	6.25		
K-B	-935 / 0	0.0	0.0	0.10 (1)	7.81		
L-G	-784 / 0	0.0	0.0	0.09 (1)	7.81		
G-F	-773 / 0	0.0	0.0	0.09 (1)	7.81		
K-J	0 / 0	-18.2	-18.2	0.04 (4)	10.00		
J-P	0 / 704	-18.2	-18.2	0.16 (1)	10.00		
P-I	0 / 704	-18.2	-18.2	0.16 (1)	10.00		
I-Q	0 / 705	-18.2	-18.2	0.16 (1)	10.00		
Q-R	0 / 705	-18.2	-18.2	0.16 (1)	10.00		
R-H	0 / 705	-18.2	-18.2	0.16 (1)	10.00		
H-G	0 / 0	-18.2	-18.2	0.04 (4)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	2-0-0	-3	-3		BACK	VERT	TOTAL		C1
E	9-4-0	-3	-3		BACK	VERT	TOTAL		C1
H	9-3-4	1	1		BACK	VERT	TOTAL		C1
J	2-0-12	1	1		BACK	VERT	TOTAL		C1
M	4-0-12	1	1		BACK	VERT	TOTAL		C1
N	6-0-12	1	1		BACK	VERT	TOTAL		C1
O	7-3-4	1	1		BACK	VERT	TOTAL		C1
P	4-0-12	1	1		BACK	VERT	TOTAL		C1
Q	6-0-12	1	1		BACK	VERT	TOTAL		C1
R	7-3-4	1	1		BACK	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/C

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

*** 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 (0.38")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL) = L/360 (0.38")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.29/0.97 (D-E-1) , BC=0.16/0.97 (I-J-1) , WB=0.19/0.97 (F-H-1) , SSI=0.23/1.00 (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)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	650 371	1747 788	1987 1873

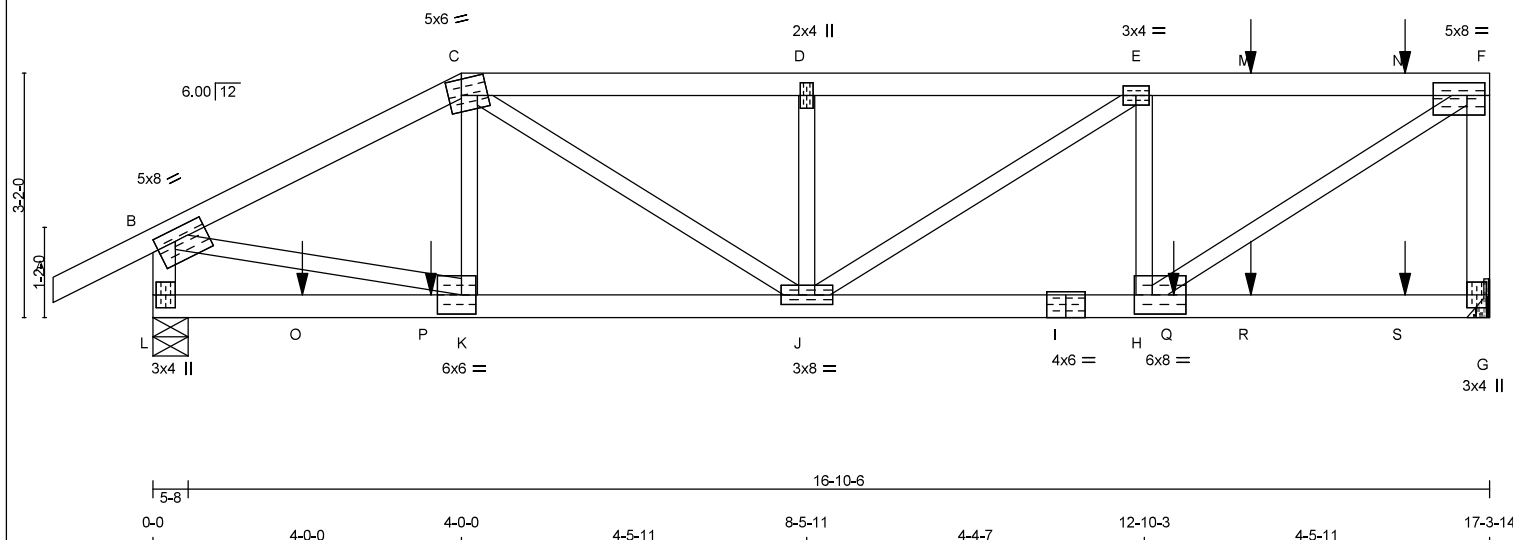
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.82 (C) (INPUT = 0.90)
JSI METAL = 0.24 (H) (INPUT = 1.00)

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

JOB NAME NE0723-109	TRUSS NAME G13	CORPORATION OF THE CITY OF OSHAWA PERMIT COPY OF PERMIT PLANS Nov 04 2023 PER: <i>Cham</i> CHIEF BUILDING OFFICIAL	JOB DESC. GREENPARK - ZADORRA ESTATES - VILLA 3-3 MHP 23035	DRWG NO.
-1-3-8 0-0 4-0-0		8-5-11 4-4-7 12-10-3 4-5-11 17-3-14	Scale = 1:29.9	



TOTAL WEIGHT = 67 lb

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - C	2x4	DRY No.2	SPF
C - F	2x4	DRY No.2	SPF
G - F	2x4	DRY No.2	SPF
L - B	2x4	DRY No.2	SPF
L - I	2x4	DRY 2100F 1.8E	SPF
I - G	2x4	DRY 2100F 1.8E	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	TMWW-4	MT20	5.0	8.0	1.75	3.00
C	TTWW-m	MT20	5.0	6.0	2.50	2.00
D	TMWW-w	MT20	2.0	4.0		
E	TMWW-4	MT20	3.0	4.0		
F	TMWW-4	MT20	5.0	8.0	2.00	2.75
G	BMV1+p	MT20	3.0	4.0	2.00	
H	BMWW-4	MT20	6.0	8.0	3.00	2.75
I	BS-t	MT20	4.0	6.0		
J	BMWWWW-4	MT20	3.0	8.0		
K	BMWW-4	MT20	6.0	6.0	3.00	2.25
L	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 GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
G	2380	0	2380	0
L	2685	0	2685	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT G. MINIMUM BEARING LENGTH AT JOINT G = 2-13.

UNFACTORED REACTIONS

	1ST LOASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
G	1660	1219 / 0	0 / 0	0 / 0	0 / 0	441 / 0	0 / 0
L	1869	1395 / 0	0 / 0	0 / 0	0 / 0	474 / 0	0 / 0

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

BEARING SIZE FACTOR = 1.15 AT JNT(S) L (BASED ON SUPPORT DEPTH = 1-8)

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.16 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 (LBS)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	
FR-TO				FR-TO			
A-B	0 / 36	-119.4	-119.4 0.17 (1)	K-C	0 / 706	0.17 (1)	
B-C	-3251 / 0	-119.4	-119.4 0.57 (1)	C-J	0 / 530	0.13 (1)	
C-D	-3377 / 0	-119.4	-119.4 0.53 (1)	J-D	-558 / 0	0.11 (1)	
D-E	-3377 / 0	-119.4	-119.4 0.57 (1)	E-J	0 / 311	0.08 (1)	
E-M	-3118 / 0	-119.4	-119.4 0.60 (1)	H-E	-816 / 0	0.16 (1)	
M-N	-3118 / 0	-119.4	-119.4 0.60 (1)	H-F	0 / 3706	0.92 (1)	
N-F	-3118 / 0	-119.4	-119.4 0.60 (1)	B-K	0 / 2968	0.73 (1)	
G-F	-2281 / 0	0.0	0.0 0.40 (1)				
L-B	-2467 / 0	0.0	0.0 0.27 (1)				
L-O	0 / 0	-18.2	-18.2 0.38 (1)				
O-P	0 / 0	-18.2	-18.2 0.38 (1)				
P-K	0 / 0	-18.2	-18.2 0.38 (1)				
K-J	0 / 2931	-18.2	-18.2 0.57 (1)				
J-I	0 / 3118	-18.2	-18.2 0.46 (1)				
I-H	0 / 3118	-18.2	-18.2 0.46 (1)				
H-Q	0 / 0	-18.2	-18.2 0.20 (1)				
Q-R	0 / 0	-18.2	-18.2 0.20 (1)				
R-S	0 / 0	-18.2	-18.2 0.20 (1)				
S-G	0 / 0	-18.2	-18.2 0.20 (1)				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
M	14-2-12	-41	-41		BACK	VERT	TOTAL		C1
N	16-2-12	-41	-41		BACK	VERT	TOTAL		C1
O	1-11-4	-172	-172		BACK	VERT	TOTAL		C1
P	3-7-4	-739	-739		BACK	VERT	TOTAL		C1
Q	13-2-12	-739	-739		BACK	VERT	TOTAL		C1
R	14-2-12	-10	-10		BACK	VERT	TOTAL		C1
S	16-2-12	-10	-10		BACK	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/C

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

*** NON STANDARD GIRDER ***

ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF 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 (0.58")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
 ALLOWABLE DEFL.(TL) = L/360 (0.58")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.19")

CSI: TC=0.60/0.97 (E-F:1) , BC=0.57/0.97 (H-K:1) ,
 WB=0.92/0.97 (F-H:1) , SSI=1.00/1.00 (K-L: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)	(PLI)
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

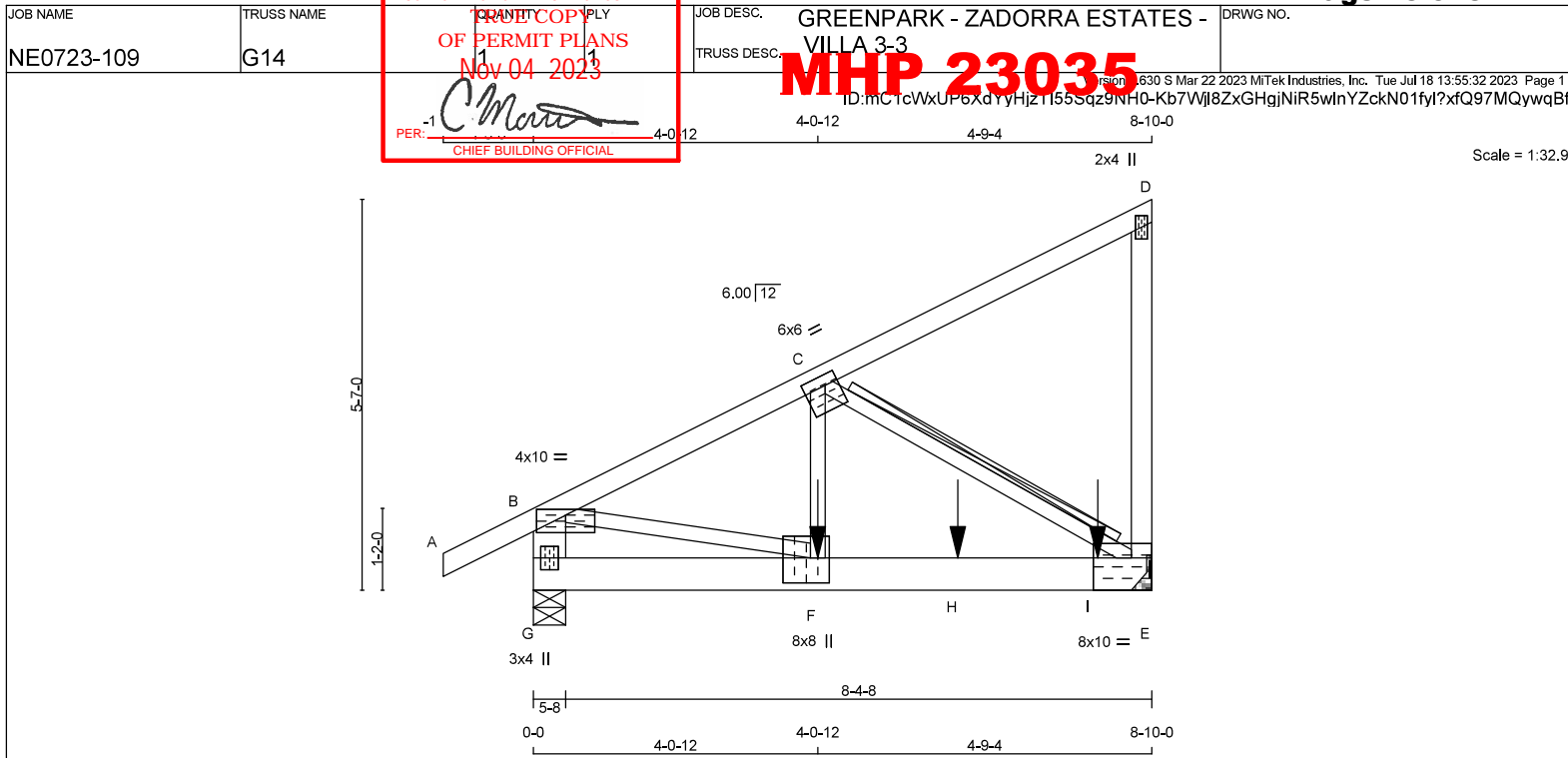
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (L) (INPUT = 0.90)
 JSI METAL = 0.82 (I) (INPUT = 1.00)



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TOTAL WEIGHT = 44 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
G - B	2x6	DRY	No.2	SPF
A - D	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF
G - E	2x6	DRY	2100F 1.8E	SPF
ALL WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	4.0	10.0	1.00	5.00
C	TMVW-t	MT20	6.0	6.0	1.75	2.25
D	TMV+p	MT20	2.0	4.0		
E	BMVW1-t	MT20	8.0	10.0	5.50	Edge
F	BMVW1-t	MT20	8.0	8.0	4.25	3.25
G	BMV1+p	MT20	3.0	4.0		

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

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

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	REQD
G	2517	0	2517	0	0	5-8	BRG
E	3574	0	3574	0	0	MECHANICAL	BRG

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
G	COMBINED	1753	1302 / 0	0 / 0	0 / 0	0 / 0	451 / 0	0 / 0
E	COMBINED	2493	1833 / 0	0 / 0	0 / 0	0 / 0	660 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.01 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 C-E

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			
G-B	-2594 / 0	0.0 0.0 0.18 (1)	6.33	B-F	0 / 3315	0.82 (1)	
A-B	0 / 36	-119.4 -119.4 0.17 (1)	10.00	F-C	0 / 2905	0.72 (1)	
B-C	-3614 / 0	-119.4 -119.4 0.62 (1)	3.01	C-E	-3777 / 0	0.94 (1)	
C-D	-23 / 0	-119.4 -119.4 0.36 (1)	6.25				
E-D	-234 / 0	0.0 0.0 0.12 (1)	7.81				
G-F	0 / 0	-18.2 -18.2 0.19 (1)	10.00				
F-H	0 / 3256	-18.2 -18.2 0.78 (1)	10.00				
H-I	0 / 3256	-18.2 -18.2 0.78 (1)	10.00				
I-E	0 / 3256	-18.2 -18.2 0.78 (1)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	4-0-12	-1646	-1646	—	FRONT	VERT	TOTAL	—	C1
H	6-0-12	-819	-819	—	FRONT	VERT	TOTAL	—	C1
I	8-0-12	-820	-820	—	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/C

*** 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 (0.28")
 CALCULATED VERT. DEFL.(LL) = L/978 (0.11")
 ALLOWABLE DEFL.(TL)= L/360 (0.28")
 CALCULATED VERT. DEFL.(TL) = L/571 (0.19")

CSI: TC=0.62/0.97 (B-C:1) , BC=0.78/0.97 (E-F:1) ,
 WB=0.94/0.97 (C-E:1) , SSI=0.95/1.00 (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

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
MT20	650	371	1747
		788	1987
			1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

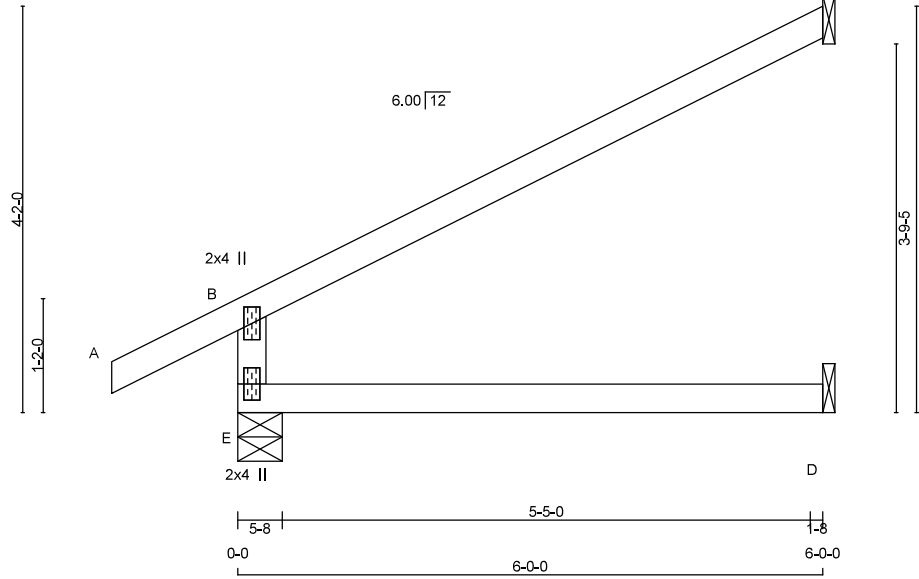


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Version 1.630 S Mar 22 2023 MiTek Industries, Inc. Tue Jul 18 13:55:33 2023 Page 1
9NH0-onhux59CiaPXLXHdfeG05n9tLQX?hQ?4u4vgvtywqBe

Scale = 1:23.6



TOTAL WEIGHT = 6 X 17 = 103 lb

MEMB.	MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD (PLF)		MAX. CS1 (LC)	MAX. UNBRAC LENGTH		MEMB. FR-TO	MAX. FACTORED FORCE (LBS)		MAX CS1 (LC)
	FR-TO	FR-TO	FROM	TO		FR-TO	FR-TO				
E-B	-610	0	0.0	0.0	0.13 (4)	7.81					
A-B	0	36	-119.4	-119.4	0.16 (1)	10.00					
B-C	-40	0	-119.4	-119.4	0.73 (1)	6.25					
E-D	0	0	-18.2	-18.2	0.13 (4)	10.00					



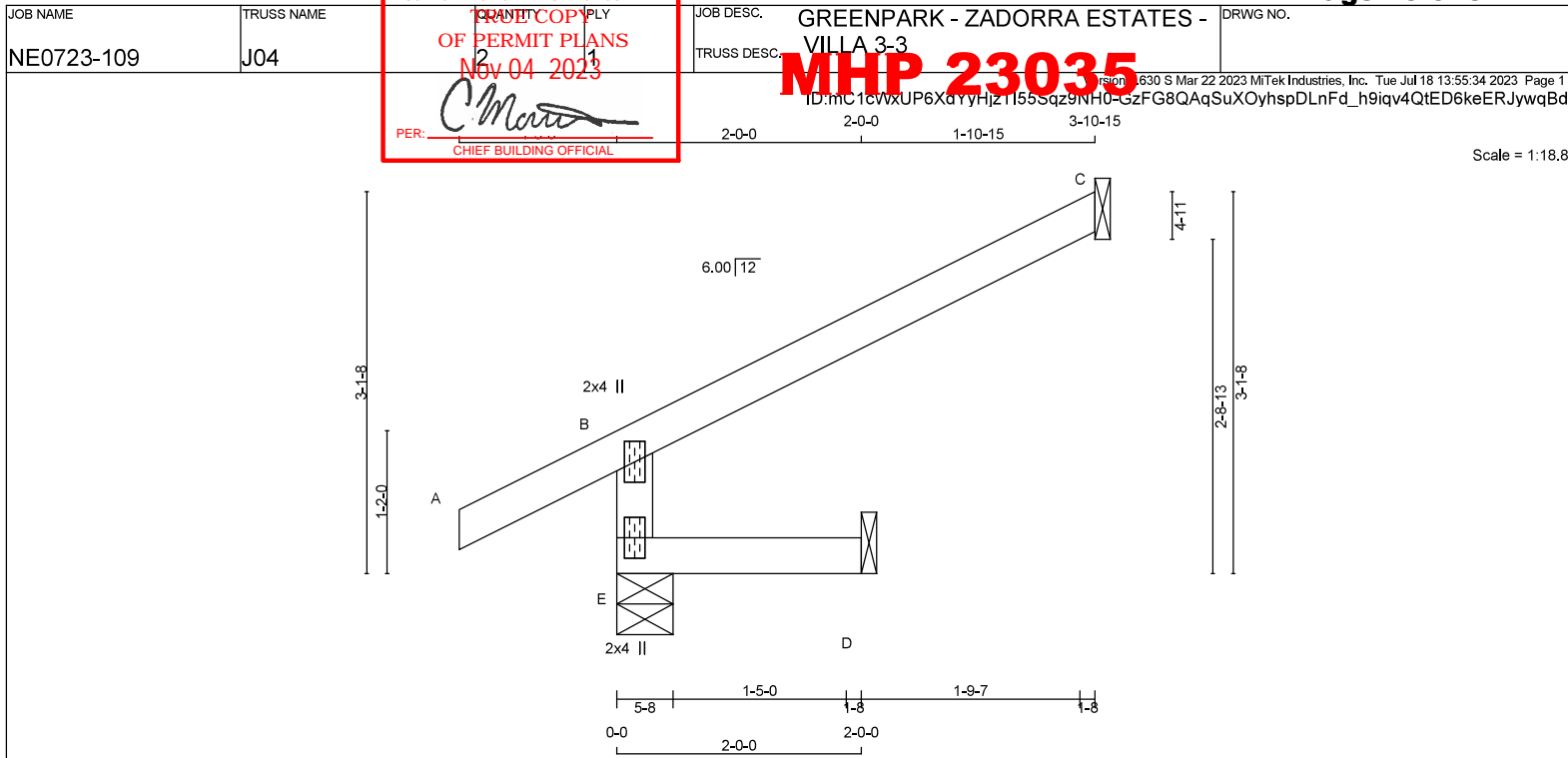
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LUMBER																		
N. L. G. A. RULES																		
CHORDS	SIZE		LUMBER		DESCR.													
E - B	2x4		DRY		SPF													
A - C	2x4		DRY		SPF													
E - D	2x4		DRY		SPF													
DRY: SEASONED LUMBER.																		
PLATES (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		MAXIMUM FACTORED		INPUT		REQRD										
		GROSS REACTION		GROSS REACTION		BRG		BRG										
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX											
E	368	0	368	0	0	5-8	1-8											
C	86	0	86	0	0	1-8	1-8											
D	45	0	51	0	0	1-8	1-8											
SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C , D																		
UNFACTORED REACTIONS																		
		1ST CASE MAX./MIN. COMPONENT REACTIONS																
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL											
E	259	177 / 0	0 / 0	0 / 0	0 / 0	82 / 0	0 / 0											
C	59	50 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0											
D	36	0 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0											
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E, C																		
BRACING																		
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.																		
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.																		
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.																		
LOADING																		
TOTAL LOAD CASES: (4)																		
C H O R D S																		
		MAX. FACTORED		FACTORED		W E B S		MAX. FACTORED										
MEMB.	FORCE	VERT. LOAD	LC1	MAX	MAX.	MEMB.	FORCE	MAX										
	(LBS)	(PLF)	CSI (LC)	UNBRAC	LENGTH		(LBS)	CSI (LC)										

	<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>	
<u>CONNECTION REQUIREMENTS</u>		TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .
1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.		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= 0.17 (B) (INPUT = 0.90) JSI METAL= 0.13 (B) (INPUT = 1.00)



TOTAL WEIGHT = 2 X 10 = 20 lb

LUMBER

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

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**

JT	VERT	HORZ	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
E	474	0	474	0	5-8	1-8
C	175	0	175	0	1-8	1-8
D	16	0	16	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	326	265 / 0	0 / 0	0 / 0	0 / 0	62 / 0	0 / 0	0 / 0
C	120	102 / 0	0 / 0	0 / 0	0 / 0	18 / 0	0 / 0	0 / 0
D	13	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 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)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LC1)	MAX. HORIZ. LOAD (LC2)	MEMB. UNBRACED LENGTH (FT)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. HORIZ. LOAD (LC2)
FR-TO									
E-B		-454 / 0	0.0	0.0	0.01 (4)	7.81			
A-B		0 / 36	-119.4	-119.4	0.16 (1)	10.00			
B-C		-26 / 0	-119.4	-119.4	0.31 (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=0.31/0.97 (B-C:1) , BC=0.02/0.97 (D-E:4) ,
 WB=0.00/0.97 (n/a:0) , SSH=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)	SHEAR	SECTION
	(PL)	(PL)	(PL)
	MAX MIN	MAX MIN	MAX MIN
MT20	650 371	1747 788	1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

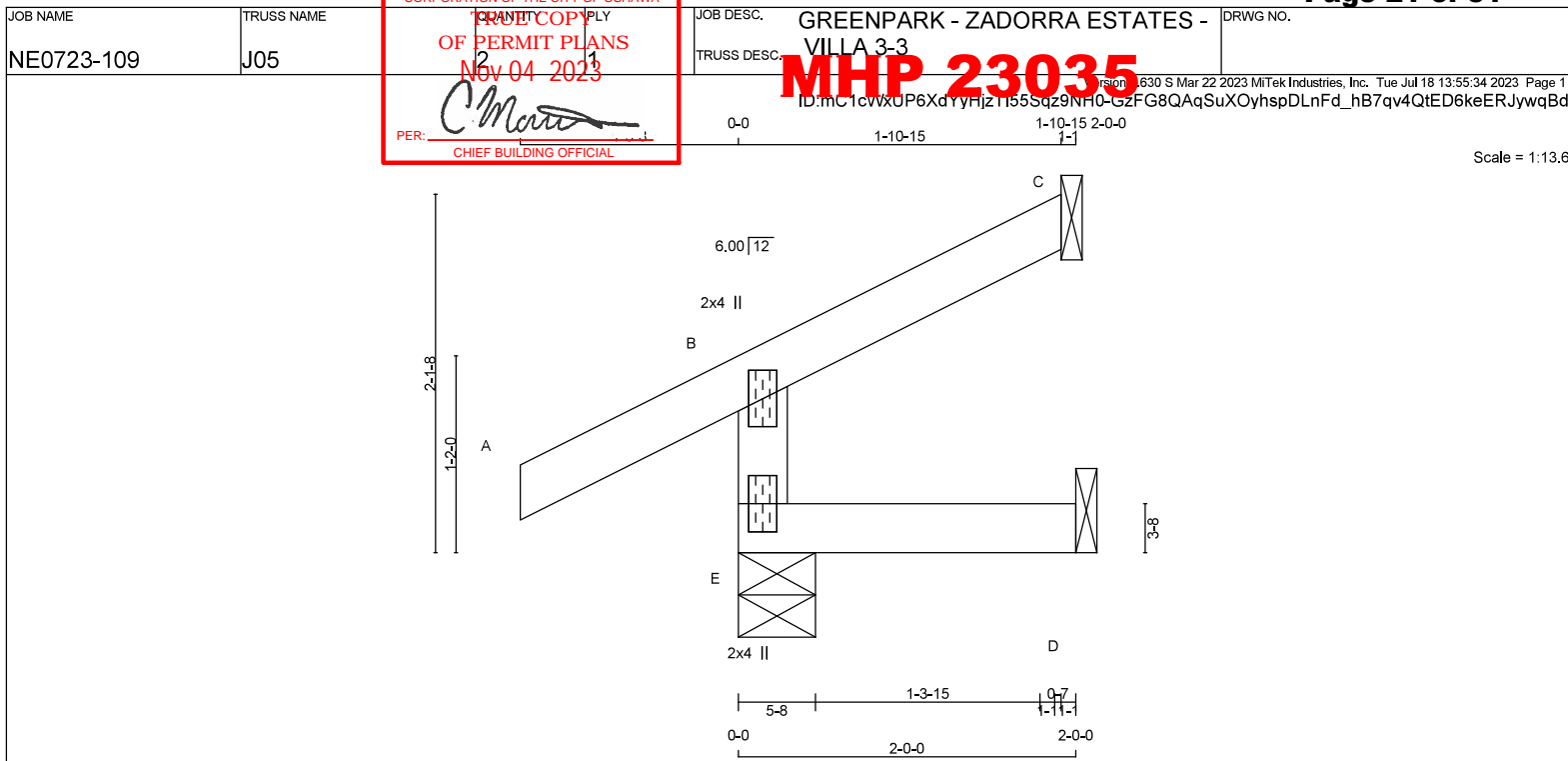
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.25 (B) (INPUT = 0.90)
 JSI METAL= 0.19 (B) (INPUT = 1.00)



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 = 2 X 7 = 15 lb

LUMBER

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

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**

JT	VERT	HORZ	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
E	324	0	324	0	5-8	1-8
C	86	0	86	0	1-8	1-8
D	16	0	16	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	224	177 / 0	0 / 0	0 / 0	0 / 0	47 / 0	0 / 0
C	59	50 / 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, C

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: (5)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LC1)	MAX. HORIZ. LOAD (LC2)	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. HORIZ. LOAD (LC2)
FR-TO						FR-TO			
E-B		-304 / 0	0.0	0.0	0.01 (4)	7.81			
A-B		0 / 36	-119.4	-119.4	0.16 (1)	10.00			
B-C		-12 / 0	-119.4	-119.4	0.07 (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 LOADALLOWABLE 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
	(PL)	(PL)	(PL)
MT20	650	371	1747
		788	1987
			1873

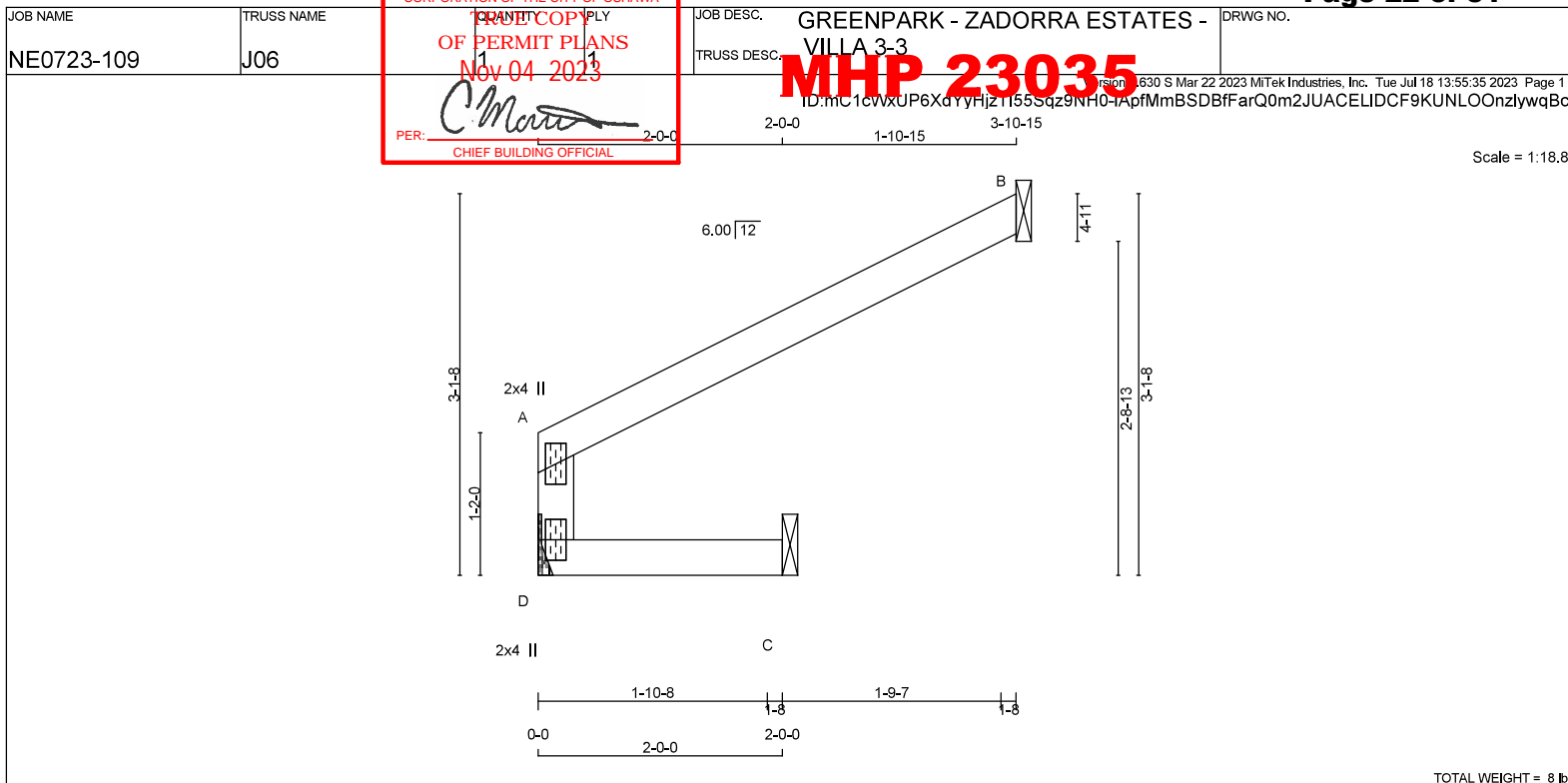
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (B) (INPUT = 0.90)
JSI METAL= 0.13 (B) (INPUT = 1.00)

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.





LUMBER	DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER						DESIGN CRITERIA
N. L. G. A. RULES							
CHORDS SIZE	LUMBER	DESCR.					
D - A	2x4	DRY	No.2	SPF			
A - B	2x4	DRY	No.2	SPF			
D - C	2x4	DRY	No.2	SPF			
DRY: SEASONED LUMBER.							
			BEARINGS				
			FACTORED	MAXIMUM FACTORED	INPUT	REQRD	
			GROSS REACTION	GROSS REACTION	BRG	BRG	SPECIFIED LOADS:
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
D	225	0	225	0	0	MECHANICAL	
B	206	0	206	0	0	1-8	1-8
							TOP CH. LL = 34.8 PSF DL = 6.0 PSF BOT CH. LL = 0.0 PSF DL = 7.3 PSF

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

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

DESIGNER BEARINGS		FACTORED GROSS REACTION			MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	MECHANICAL	IN-SX	
D	225	0	225	0	0				
B	206	0	206	0	0	1-8		1-8	
C	73	0	73	0	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

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
D	156	120 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0
B	141	120 / 0	0 / 0	0 / 0	0 / 0	21 / 0	0 / 0
C	52	32 / 0	0 / 0	0 / 0	0 / 0	19 / 0	0 / 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO		FR-TO		
D-A	-262 / 0	0.0	0.13 (1)	7.81			
A-B	-13 / 0	-119.4	-119.4	0.23 (1)	6.25		
D-C	0 / 0	-18.2	-18.2	0.15 (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=0.23/0.97 (A-B:1) , BC=0.15/0.97 (C-D:1) ,
WB=0.00/0.97 (n/a:0) , SSI=0.18/1.00 (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= 0.15 (A) (INPUT = 0.90)
JSI METAL= 0.11 (A) (INPUT = 1.00)



**READ ALL NOTES ON THIS PAGE AND ON THE
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IN THE DESIGN OF THIS COMPONENT.**

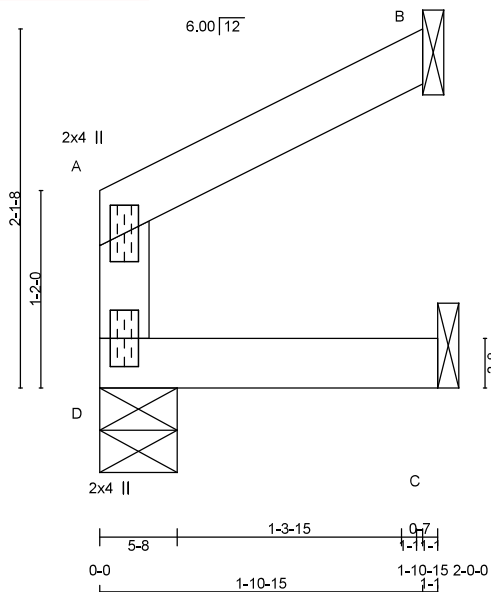


JOB NAME NE0723-109	TRUSS NAME J07	CORPORATION OF THE CITY OF OSHAWA PERMIT COPY OF PERMIT PLANS NOV 04 2023 PER: <i>C. M...</i> CHIEF BUILDING OFFICIAL	JOB DESC. GREENPARK - ZADORRA ESTATES - VILLA 3-3	DRWG NO.
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Version: 1.030 S Mar 22 2023 MiTek Industries, Inc. Tue Jul 18 13:55:35 2023 Page 1
ID: mC1cvxUP6XdYYHjZ1I55Sqz9NHU-IapfMmBSDBfFarQ0m2JUACEOSDEB9KUNLOOnzlywqBc

1-10-15 1-10-15 2-0-0 1-1

Scale = 1:13.6



TOTAL WEIGHT = 6 lb

LUMBER

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

JT	VERT	HORZ	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
D	133	0	133	0	5-8	1-8
B	107	0	107	0	1-8	1-8
C	25	0	25	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
D	93	67 / 0	0 / 0	0 / 0	0 / 0	26 / 0	0 / 0
B	73	61 / 0	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0
C	19	5 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0

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

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)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LC1)	MAX. HORIZ. LOAD (LC2)	MEMB. LENGTH FR-TO	MAX. FACTORED FORCE (LBS)	MAX. HORIZ. LOAD (LC2)
FR-TO							
D-A	-122 / 0	0.0	0.0	0.02 (1)	7.81		
A-B	-3 / 0	-119.4	-119.4	0.05 (1)	10.00		
D-C	0 / 0	-18.2	-18.2	0.02 (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 LOADALLOWABLE 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=0.05/0.97 (A-B:1), BC=0.02/0.97 (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.

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


PLATE PLACEMENT TOL. = 0.250 inches

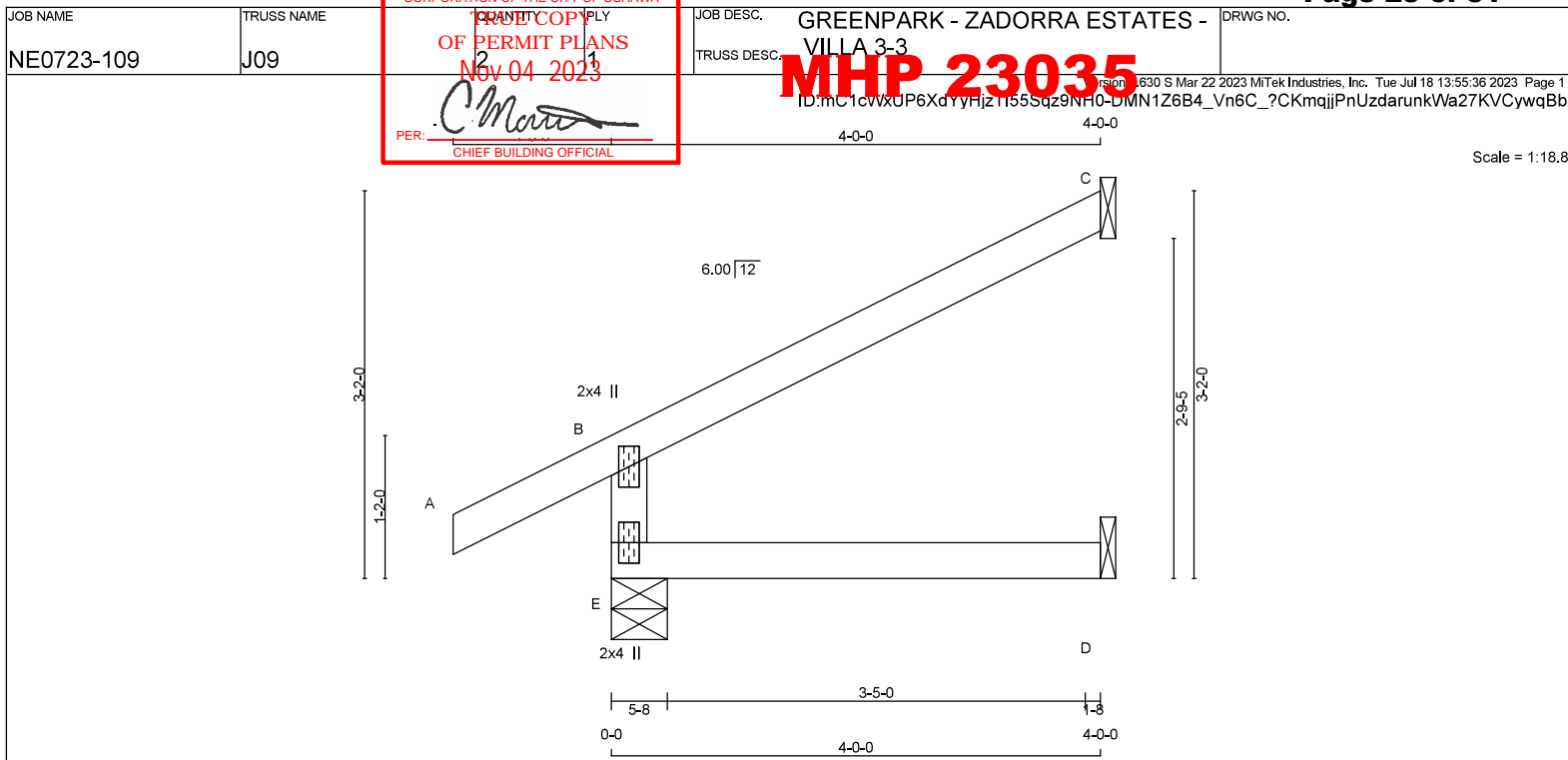
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.07 (A) (INPUT = 0.90)
JSI METAL = 0.05 (A) (INPUT = 1.00)

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>Jul 18, 2023</p> <div style="border: 2px solid red; padding: 5px; margin-top: 10px;"> <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> </div>	
	<div> <div>MT20 650 371 1747 788 1987 1873</div> <div>PLATE PLACEMENT TOL. = 0.250 inches</div> <div>PLATE ROTATION TOL. = 5.0 Deg.</div> <div>JSI GRIP= 0.18 (B) (INPUT = 0.90)</div> <div>JSI METAL= 0.13 (B) (INPUT = 1.00)</div> </div> <div style="text-align: right; margin-top: 20px;">  </div>



TOTAL WEIGHT = 2 X 12 = 25 lb

LUMBER

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

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**

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
E	503	0	503	0	0	5-8	1-8
C	179	0	179	0	0	1-8	1-8
D	31	0	35	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	348	268 / 0	0 / 0	0 / 0	0 / 0	80 / 0	0 / 0
C	123	105 / 0	0 / 0	0 / 0	0 / 0	18 / 0	0 / 0
D	25	0 / 0	0 / 0	0 / 0	0 / 0	25 / 0	0 / 0

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

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. VERT. LOAD (LC1)	MAX. HORIZ. LOAD (LC2)	MAX. UNBRACED LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. HORIZ. LOAD (LC2)
FR-TO						FR-TO		
E-B	-460 / 0	0.0	0.0	0.05 (4)	7.81			
A-B	0 / 36	-119.4	-119.4	0.16 (1)	10.00			
B-C	-27 / 0	-119.4	-119.4	0.32 (1)	6.25			
E-D	0 / 0	-18.2	-18.2	0.06 (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 LOADALLOWABLE 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=0.32/0.97 (B-C:1) , BC=0.06/0.97 (D-E:4) ,
WB=0.00/0.97 (n/a:0) , SSH=0.21/1.00 (B-C:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10
SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

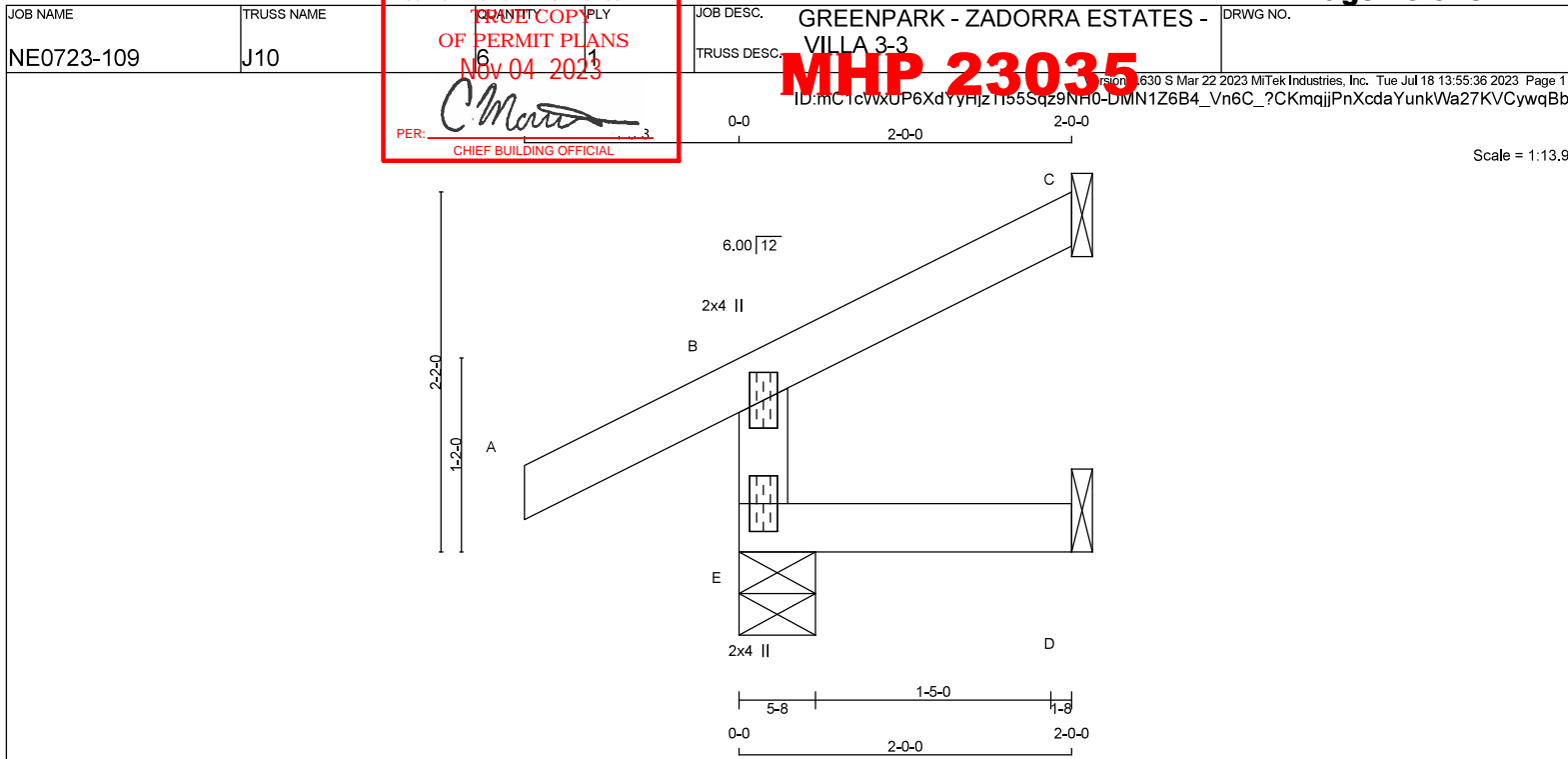
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.26 (B) (INPUT = 0.90)
JSI METAL = 0.19 (B) (INPUT = 1.00)

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 = 6 X 7 = 45 lb

LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

JT	VERT	HORZ	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
E	331	0	331	0	5-8	1-8
C	90	0	90	0	1-8	1-8
D	16	0	16	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	229	181 / 0	0 / 0	0 / 0	0 / 0	47 / 0	0 / 0
C	62	53 / 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, C

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: (5)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LC1)	MAX. HORIZ. LOAD (LC2)	MEMB. UNBRACED LENGTH (FT)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. HORIZ. LOAD (LC2)
FR-TO									
E-B		-311 / 0	0.0	0.0	0.01 (4)	7.81			
A-B		0 / 36	-119.4	-119.4	0.16 (1)	10.00			
B-C		-13 / 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
	BOT CH.	LL	=	6.0	PSF
		DL	=	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 LOADALLOWABLE 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
	(PL)	(PL)	(PL)
	MAX MIN	MAX MIN	MAX MIN
MT20	650 371	1747 788	1987 1873

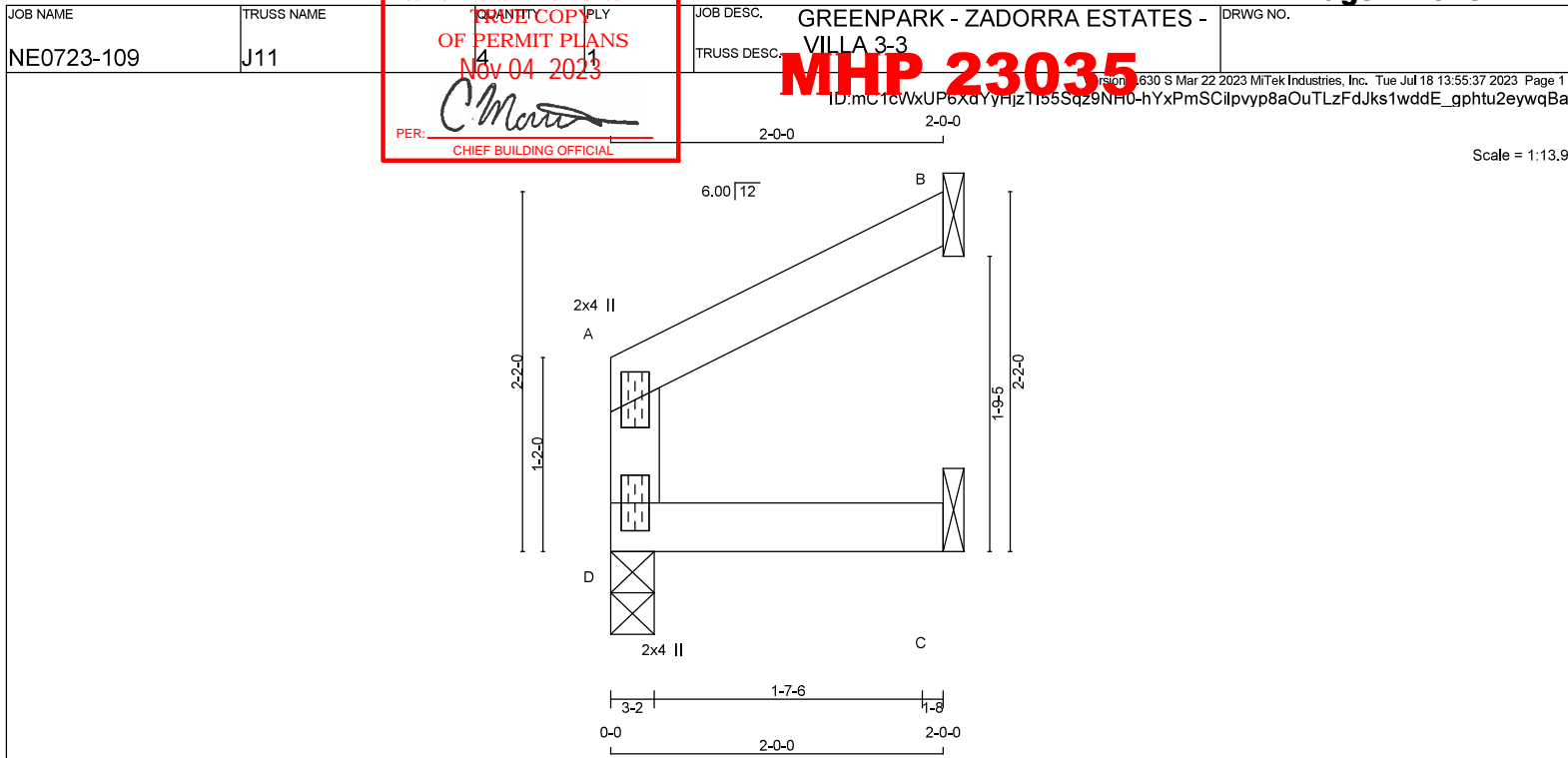
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (B) (INPUT = 0.90)
JSI METAL= 0.13 (B) (INPUT = 1.00)

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.





LUMBER

N. L. G. A. RULES

CHORDS SIZE

D - A2x4

A - B2x4

D - C2x4

DRY

No.2

No.2

No.2

DESIGNER

BEARINGS

FACTORED

GROSS REACTION

VERT

HORZ

DOWN

HORZ

UPLIFT

IN-SX

IN-SX

JT

D

B

C

138

0

111

0

27

0

138

0

0

0

1-8

1-8

1-8

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT

TYPE

PLATES

W

LEN

Y

X

D

TMV+p

MT20

2.0

4.0

D

BMV1+p

MT20

2.0

4.0

SPF

SPF

SPF

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

UNFACTORED REACTIONS

1ST LCASE

MAX./MIN. COMPONENT REACTIONS

D

B

C

96

76

20

70 / 0

64 / 0

6 / 0

0 / 0

0 / 0

0 / 0

0 / 0

0 / 0

0 / 0

27 / 0

12 / 0

15 / 0

0 / 0

0 / 0

0 / 0

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

BRACING

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

C H O R D S

MAX. FACTORED

FORCE

VERT. LOAD

LC1

MAX

CS

UNBRAC

MEMB.

MEMB.

FORCE

MAX

CS

FR-TO

D- A

A- B

D- C

-128 / 0

-4 / 0

0 / 0

0.0

-119.4

-18.2

0.02 (1)

0.06 (1)

0.03 (1)

7.81

10.00

10.00

W E B S

MAX. FACTORED

FORCE

MAX

CS

FR-TO

D- A

A- B

D- C

-128 / 0

-4 / 0

0 / 0

0.0

-119.4

-18.2

0.02 (1)

0.06 (1)

0.03 (1)

7.81

10.00

10.00

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= 0.07 (A) (INPUT = 0.90)

JSI METAL= 0.05 (A) (INPUT = 1.00)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.

LL

=

34.8

PSF

BOT CH.

LL

=

0.0

PSF

TOTAL LOAD

=

48.1

PSF

SPACING = 24.0 IN./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=0.09/1.00 (A-B:1)

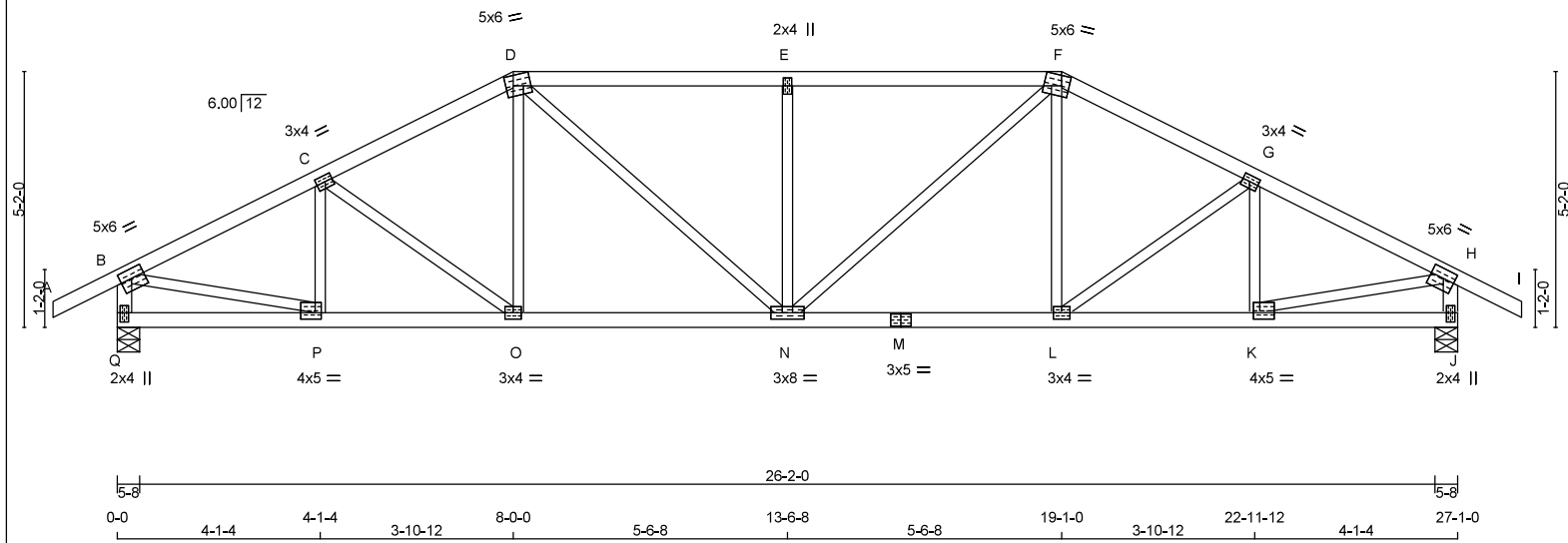
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10



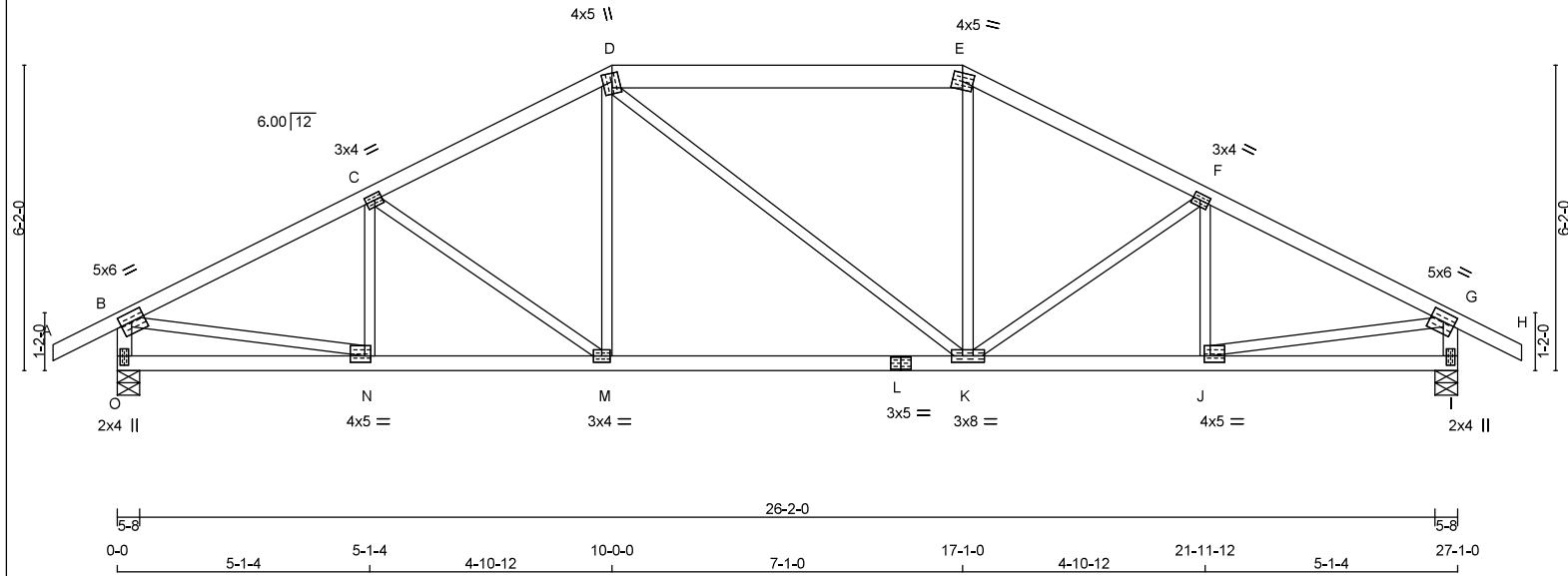
**READ ALL NOTES ON THIS PAGE AND ON THE
ENGINEERING NOTES: TRUSSES. THE NOTE PAGE
IS AN INTEGRAL PART OF THIS DRAWING AS IT
CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.**



JOB NAME NE0723-109	TRUSS NAME T01	CORPORATION OF THE CITY OF OSHAWA DESIGN COPY OF PERMIT PLANS Nov 04 2023 CHIEF BUILDING OFFICIAL	JOB DESC. GREENPARK - ZADORRA ESTATES - VILLA 3-3	DRWG NO.
ID: mC1cWxUP6xdYyHjz1155Sqz9NH0-hYxPmSCilpvyyp8aOuTLzFdJcv1qQd6kgphtu2eywqBa Version: 1.030 S Mar 22 2023 MiTek Industries, Inc. Tue Jul 18 13:55:37 2023 Page 1 Scale = 1:46.5				



JOB NAME NE0723-109	TRUSS NAME T02	CORPORATION OF THE CITY OF OSHAWA PERMIT COPY OF PERMIT PLANS Nov 04 2023 CHIEF BUILDING OFFICIAL	JOB DESC. GREENPARK - ZADORRA ESTATES - VILLA 3-3	DRWG NO.
Design: 1630 S Mar 22 2023 MiTek Industries, Inc. Tue Jul 18 13:55:38 2023 Page 1 ID: mC1cwxUP6XdyHjz1I55Sqz9NH0-9IVn_oDKV62pRI9bSBsCoqso9R9uMYop1LcRa4ywwqBZ				
Scale = 1:46.5 1-3-8 0-0 5-1-4 5-1-4 7-1-0 17-1-0 4-10-12 21-11-12 5-1-4 27-1-0 28-4-8 1-3-8				



TOTAL WEIGHT = 113 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - E	2x6	DRY	No.2
E - H	2x4	DRY	No.2
O - B	2x4	DRY	No.2
I - G	2x4	DRY	No.2
O - L	2x4	DRY	No.2
L - I	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW4	MT20	5.0	6.0	2.25	2.75
C	TMVW4	MT20	3.0	4.0	1.50	1.75
D	TTWV+m	MT20	4.0	5.0	2.00	1.75
E	TTWV-m	MT20	4.0	5.0		
F	TMVW4	MT20	3.0	4.0	1.50	1.75
G	TMVW4	MT20	5.0	6.0	2.25	2.75
I	BMV1+p	MT20	2.0	4.0	2.25	1.00
J	BMVW4	MT20	4.0	5.0	1.50	1.50
K	BMVW4	MT20	3.0	8.0		
L	BS4	MT20	3.0	5.0		
M	BMVW4	MT20	3.0	4.0		
N	BMVW4	MT20	4.0	5.0	1.50	1.50
O	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**

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
O	2026	0	2026	0	0	5-8	3-1
I	2026	0	2026	0	0	5-8	3-1

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
O	1414	1037 / 0	0 / 0	0 / 0	0 / 0	376 / 0	0 / 0
I	1414	1037 / 0	0 / 0	0 / 0	0 / 0	376 / 0	0 / 0

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

BRACINGTOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.78 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 CSI (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 36	-119.4	-119.4 0.16 (1)	10.00	N-C	-317 / 0	0.07 (1)
B-C	-2618 / 0	-119.4	-119.4 0.47 (1)	3.78	C-M	-410 / 0	0.24 (1)
C-D	-2300 / 0	-119.4	-119.4 0.44 (1)	4.03	M-D	0 / 358	0.08 (1)
D-E	-2029 / 0	-119.4	-119.4 0.40 (1)	5.14	D-K	0 / 0	0.00 (1)
E-F	-2301 / 0	-119.4	-119.4 0.44 (1)	4.03	K-E	0 / 359	0.08 (1)
F-G	-2618 / 0	-119.4	-119.4 0.47 (1)	3.78	K-F	-408 / 0	0.24 (1)
G-H	0 / 36	-119.4	-119.4 0.16 (1)	10.00	J-F	-318 / 0	0.07 (1)
O-B	-1982 / 0	0.0	0.0 0.20 (1)	5.91	B-N	0 / 2402	0.54 (1)
I-G	-1982 / 0	0.0	0.0 0.20 (1)	5.91	J-G	0 / 2402	0.54 (1)
O-N	0 / 0	-18.2	-18.2 0.10 (4)	10.00			
N-M	0 / 2369	-18.2	-18.2 0.47 (1)	10.00			
M-L	0 / 2029	-18.2	-18.2 0.42 (1)	10.00			
L-K	0 / 2029	-18.2	-18.2 0.42 (1)	10.00			
K-J	0 / 2369	-18.2	-18.2 0.47 (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

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 LOADALLOWABLE DEFL.(LL) = L/360 (0.90")
CALCULATED VERT. DEFL.(LL) = L/999 (0.10")
ALLOWABLE DEFL.(TL) = L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")CSI: TC=0.47/0.97 (B-C:1) , BC=0.47/0.97 (J-K:1) ,
WB=0.54/0.97 (B-N:1) , SS=0.26/1.00 (F-G:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10
SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

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

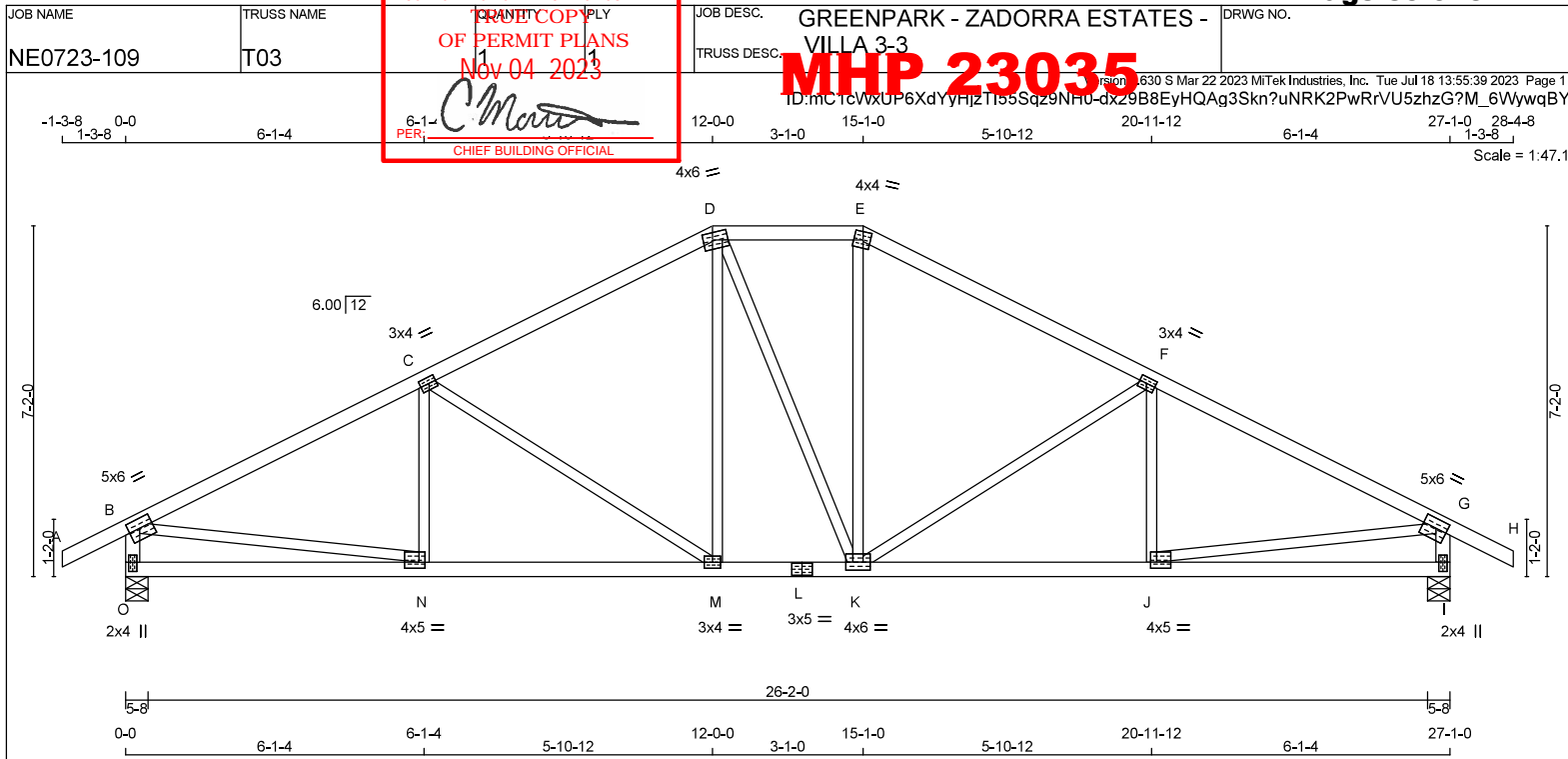
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (D) (INPUT = 0.90)
JSI METAL = 0.68 (N) (INPUT = 1.00)

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.



**LUMBER**

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - H	2x4	DRY	No.2
O - B	2x4	DRY	No.2
I - G	2x4	DRY	No.2
O - L	2x4	DRY	No.2
L - I	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	TMVW4	MT20	5.0	6.0	2.25	2.75
C	TMVW4	MT20	3.0	4.0	1.50	1.75
D	TTVW-m	MT20	4.0	6.0	1.75	2.25
E	TTVW-m	MT20	4.0	4.0	2.00	1.75
F	TMVW4	MT20	3.0	4.0	1.50	1.75
G	TMVW4	MT20	5.0	6.0	2.25	2.75
I	BMV1+p	MT20	2.0	4.0	2.25	1.00
J	BMVW4	MT20	4.0	5.0	1.50	1.50
K	BMVW4	MT20	4.0	6.0		
L	BS4	MT20	3.0	5.0		
M	BMVW4	MT20	3.0	4.0		
N	BMVW4	MT20	4.0	5.0	1.50	1.50
O	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	MAXIMUM FACTORED	INPUT	REQRD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
O	2026	0	2026	0
I	2026	0	2026	0

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
O	1414	1037 / 0	0 / 0	0 / 0	0 / 0	376 / 0	0 / 0
I	1414	1037 / 0	0 / 0	0 / 0	0 / 0	376 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.43 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. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 36	-119.4	-119.4 0.16 (1)	10.00	N-C	-216 / 53	0.06 (1)
B-C	-2643 / 0	-119.4	-119.4 0.69 (1)	3.43	C-M	-698 / 0	0.69 (1)
C-D	-2066 / 0	-119.4	-119.4 0.62 (1)	3.92	M-D	0 / 456	0.10 (1)
D-E	-1821 / 0	-119.4	-119.4 0.18 (1)	4.77	D-K	0 / 4	0.00 (1)
E-F	-2068 / 0	-119.4	-119.4 0.62 (1)	3.92	K-E	0 / 460	0.10 (1)
F-G	-2642 / 0	-119.4	-119.4 0.69 (1)	3.43	K-F	-696 / 0	0.69 (1)
G-H	0 / 36	-119.4	-119.4 0.16 (1)	10.00	J-F	-218 / 52	0.06 (1)
O-B	-1979 / 0	0.0	0.0 0.20 (1)	5.92	B-N	0 / 2421	0.54 (1)
I-G	-1978 / 0	0.0	0.0 0.20 (1)	5.92	J-G	0 / 2421	0.54 (1)
O-N	0 / 0	-18.2	-18.2 0.16 (4)	10.00			
N-M	0 / 2398	-18.2	-18.2 0.45 (1)	10.00			
M-L	0 / 1819	-18.2	-18.2 0.35 (1)	10.00			
L-K	0 / 1819	-18.2	-18.2 0.35 (1)	10.00			
K-J	0 / 2397	-18.2	-18.2 0.45 (1)	10.00			
J-I	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

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 (0.90")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
 ALLOWABLE DEFL.(TL) = L/360 (0.90")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.20")

CSI: TC=0.69/0.97 (B-C:1) , BC=0.45/0.97 (M-N:1) ,
 WB=0.69/0.97 (C-M:1) , SSI=0.31/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

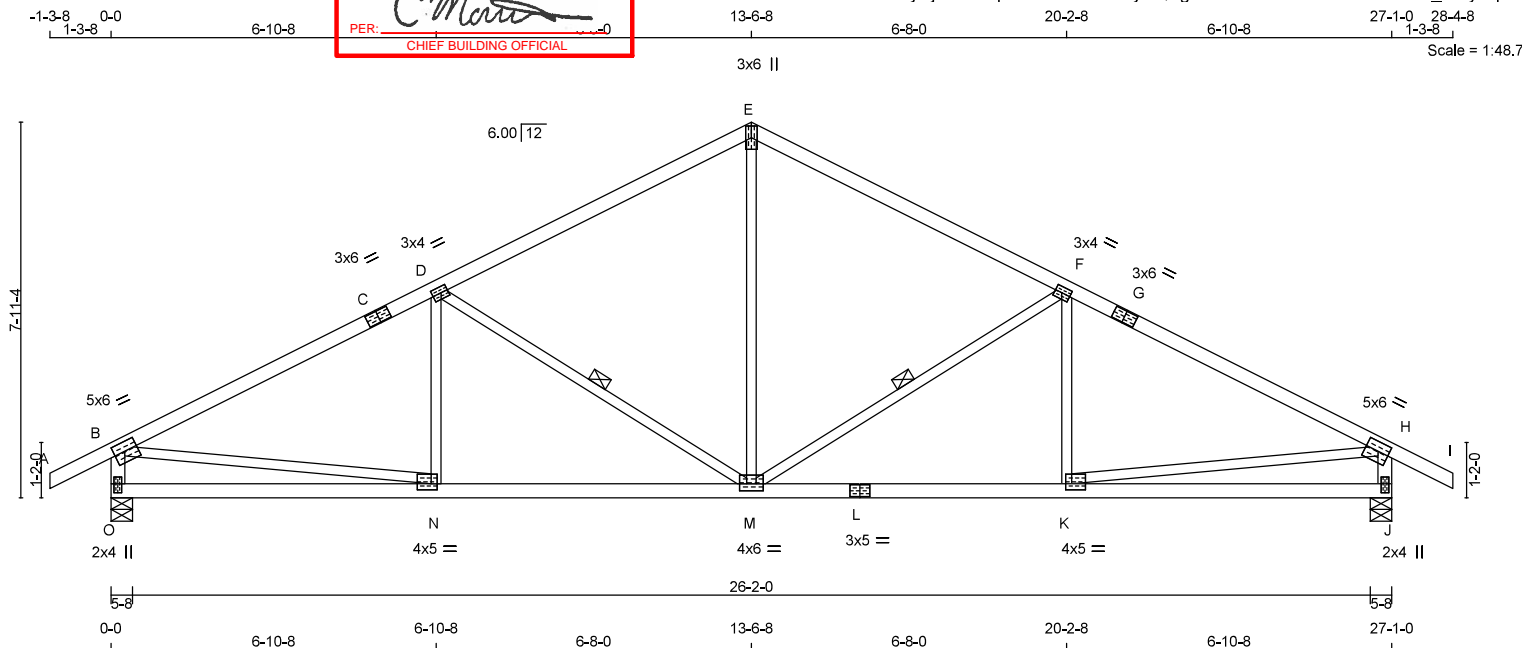
JSI GRIP = 0.89 (B) (INPUT = 0.90)
 JSI METAL = 0.68 (N) (INPUT = 1.00)



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 NE0723-109	TRUSS NAME T04	CORPORATION OF THE CITY OF OSHAWA PERMIT COPY NOV 04 2023 CHIEF BUILDING OFFICIAL	JOB DESC. GREENPARK - ZADORRA ESTATES - VILLA 3-3	DRWG NO.
ID: mC1cwXUP6XdYyHjz1t55Sqz9NH0-ax29B8EyHQAq3Skn?uNRK2Ps6rV55?0zG?M_6WywqBY				

**LUMBER**

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
G - I	2x4	DRY	No.2
O - B	2x4	DRY	No.2
J - H	2x4	DRY	No.2
O - L	2x4	DRY	No.2
L - J	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	TMWW4	MT20	5.0	6.0	2.25	2.75
C	TS4	MT20	3.0	6.0		
D	TMWW4	MT20	3.0	4.0	1.50	1.75
E	TTW+p	MT20	3.0	6.0		
F	TMWW4	MT20	3.0	4.0	1.50	1.75
G	TS4	MT20	3.0	6.0		
H	TMWW4	MT20	5.0	6.0	2.25	2.75
J	BMV1+p	MT20	2.0	4.0	2.25	1.00
K	BMWW4	MT20	4.0	5.0	1.50	1.50
L	BS4	MT20	3.0	5.0		
M	BMWW4	MT20	4.0	6.0	1.75	3.00
N	BMWW4	MT20	4.0	5.0	1.50	1.50
O	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	MAXIMUM FACTORED	INPUT	REQRD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
O	2026	0	2026	0
J	2026	0	2026	0

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN.	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
O	1414	1037 / 0	0 / 0
J	1414	1037 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.97 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF F-M, D-M, DBS = 20-0-0. CBF = 109 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)

MEMB.	CHORDS	MAX. FACTORED	VERT. LOAD	LC1	MAX	CS1 (LC)	MAX.	MEMB.	WEBS	MAX. FACTORED	MAX	CS1 (LC)
		FORCE (LBS)			(PLF)		UNBRAC			FORCE (LBS)		
FR-TO			FROM	TO			LENGTH	FR-TO				
A-B	0 / 36	-119.4	-119.4	0.16	(1)	10.00	M-E	0 / 1065	0.24	(1)		
B-C	-2634 / 0	-119.4	-119.4	0.91	(1)	2.97	M-F	-870 / 0	0.37	(1)		
C-D	-2634 / 0	-119.4	-119.4	0.91	(1)	2.97	K-F	-167 / 76	0.05	(1)		
D-E	-1904 / 0	-119.4	-119.4	0.79	(1)	3.65	D-M	-870 / 0	0.37	(1)		
E-F	-1904 / 0	-119.4	-119.4	0.79	(1)	3.65	N-D	-167 / 76	0.05	(1)		
F-G	-2634 / 0	-119.4	-119.4	0.91	(1)	2.97	B-N	0 / 2413	0.54	(1)		
G-H	-2634 / 0	-119.4	-119.4	0.91	(1)	2.97	K-H	0 / 2413	0.54	(1)		
H-I	0 / 36	-119.4	-119.4	0.16	(1)	10.00						
O-B	-1973 / 0	0.0	0.0	0.20	(1)	5.92						
J-H	-1973 / 0	0.0	0.0	0.20	(1)	5.92						
O-N	0 / 0	-18.2	-18.2	0.20	(4)	10.00						
N-M	0 / 2394	-18.2	-18.2	0.47	(1)	10.00						
M-L	0 / 2394	-18.2	-18.2	0.47	(1)	10.00						
L-K	0 / 2394	-18.2	-18.2	0.47	(1)	10.00						
K-J	0 / 0	-18.2	-18.2	0.20	(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 (0.90")
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")
ALLOWABLE DEFL.(TL) = L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")

CSI: TC=0.91/0.97 (B-D:1), BC=0.47/0.97 (M-N:1), WB=0.54/0.97 (B-N:1), SSI=0.35/1.00 (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.

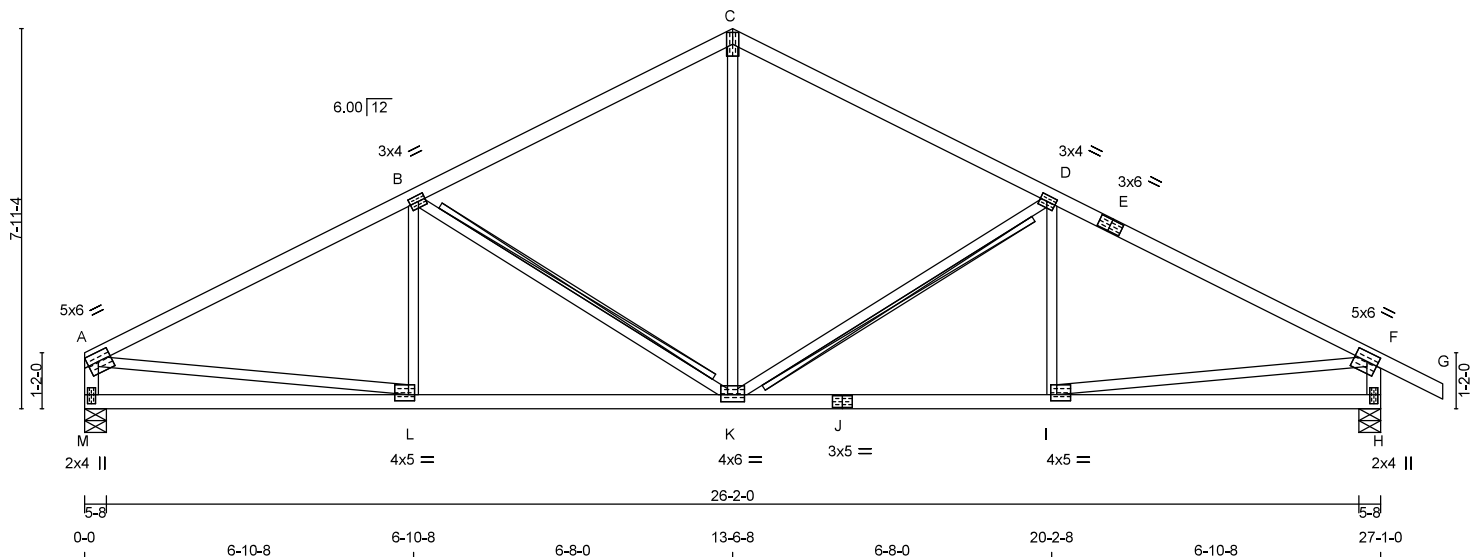
JSI GRIP = 0.89 (B) (INPUT = 0.90)
JSI METAL = 0.74 (L) (INPUT = 1.00)



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 NE0723-109	TRUSS NAME T05	CORPORATION OF THE CITY OF OSHAWA PERMIT COPY NOV 04 2023 PER: <i>C. M...</i> CHIEF BUILDING OFFICIAL	JOB DESC. GREENPARK - ZADORRA ESTATES - VILLA 3-3	DRWG NO. ID:mc1cVwXUP6xdYyHjz11555qz9NNH0-57cYPUFb2kIXgcJzZcugtFx1sErKqSG6Vf5YezywqBX
0-0 6-10-8 13-6-8 6-8-0 20-2-8 6-10-8 27-1-0 1-3-8		Scale: 1/4"=1'		



TOTAL WEIGHT = 2 X 105 = 209 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
M - A	2x4	DRY	No.2
H - F	2x4	DRY	No.2
M - J	2x4	DRY	No.2
J - H	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2 EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW4	MT20	5.0	6.0	2.25	Edge
B	TMVW4	MT20	3.0	4.0	1.50	1.75
C	TTW+p	MT20	3.0	6.0		
D	TMVW4	MT20	3.0	4.0	1.50	1.75
E	TS4	MT20	3.0	6.0		
F	TMVW4	MT20	5.0	6.0	2.25	2.75
H	BMV1+p	MT20	2.0	4.0	2.25	1.00
I	BMVW4	MT20	4.0	5.0	1.50	1.50
J	BS4	MT20	3.0	5.0		
K	BMVW4	MT20	4.0	6.0	1.75	3.00
L	BMVW4	MT20	4.0	5.0	1.50	1.50
M	BMV1+p	MT20	2.0	4.0	2.25	1.00

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
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
M	1864	0	1864	0
H	2026	0	2026	0

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
M	1303	943 / 0	0 / 0	0 / 0	0 / 0	360 / 0	0 / 0
H	1414	1037 / 0	0 / 0	0 / 0	0 / 0	376 / 0	0 / 0

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

BRACINGTOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.97 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

2x4 DRY SPF No.2 T-BRACE AT D-K, B-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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)	
FR-TO		FROM TO		FR-TO			
A-B	-2634 / 0	-119.4 -119.4	0.91 (1)	K-C	0 / 1065	0.24 (1)	
B-C	-1904 / 0	-119.4 -119.4	0.79 (1)	K-D	-870 / 0	0.41 (1)	
C-D	-1904 / 0	-119.4 -119.4	0.79 (1)	I-D	-167 / 76	0.05 (1)	
D-E	-2634 / 0	-119.4 -119.4	0.91 (1)	B-K	-870 / 0	0.41 (1)	
E-F	-2634 / 0	-119.4 -119.4	0.91 (1)	L-B	-167 / 76	0.05 (1)	
F-G	0 / 36	-119.4 -119.4	0.18 (1)	A-L	0 / 2413	0.54 (1)	
M-A	-1811 / 0	0.0 0.0	0.18 (1)	I-F	0 / 2413	0.54 (1)	
H-F	-1973 / 0	0.0 0.0	0.20 (1)				
M-L	0 / 0	-18.2 -18.2	0.20 (4)				
L-K	0 / 2394	-18.2 -18.2	0.47 (1)				
K-J	0 / 2394	-18.2 -18.2	0.47 (1)				
J-I	0 / 2394	-18.2 -18.2	0.47 (1)				
I-H	0 / 0	-18.2 -18.2	0.20 (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./CTHIS 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 LOADALLOWABLE DEFL.(LL) = L/360 (0.90")
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")
ALLOWABLE DEFL.(TL) = L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")CSI: TC=0.91/0.97 (A-B:1), BC=0.47/0.97 (K-L:1),
WB=0.54/0.97 (A-L:1), SSI=0.35/1.00 (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	

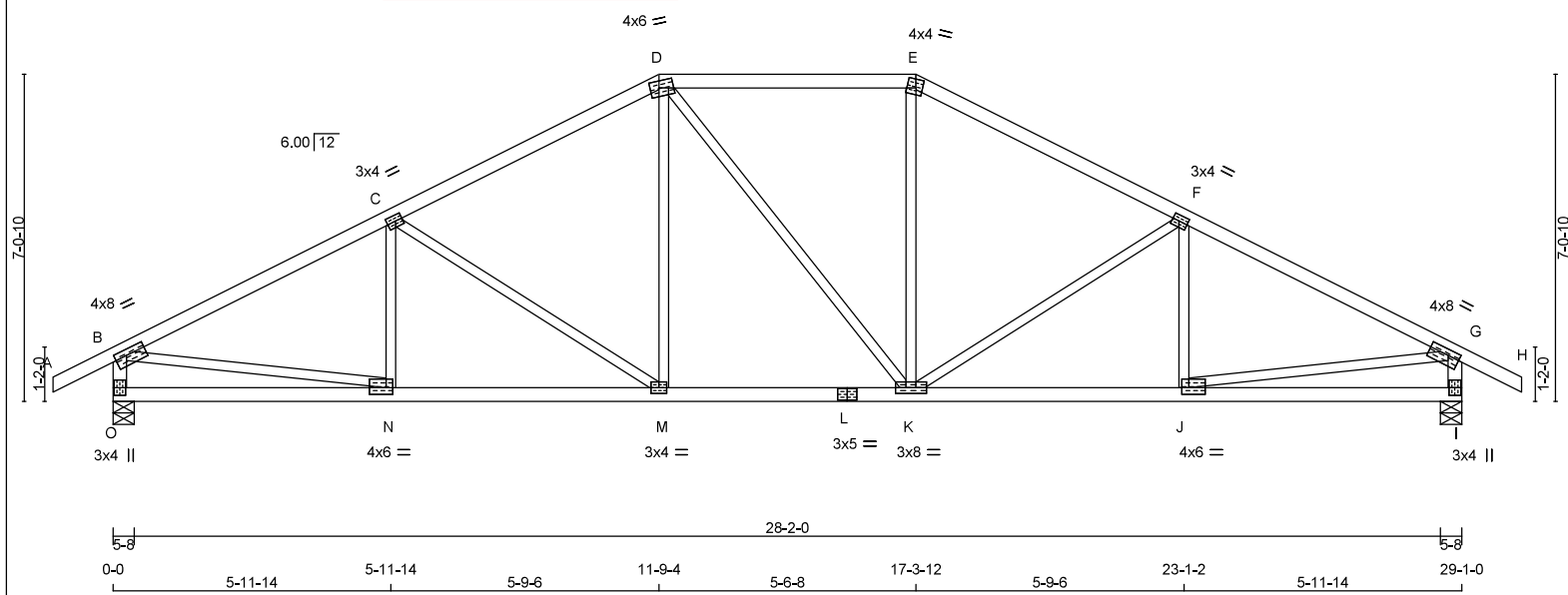
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (A) (INPUT = 0.90)
JSI METAL = 0.74 (J) (INPUT = 1.00)

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.





LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING										DESIGN CRITERIA			
N. L. G. A. RULES				DESIGNER													
CHORDS		SIZE	LUMBER	DESCR.	BEARINGS												
A - D	No.2	2x4	DRY	No.2	SPF	FACTORED		MAXIMUM FACTORED		INPUT		REQRD		SPECIFIED LOADS:			
D - E	2x4	DRY	No.2	SPF	GROSS REACTION		GROSS REACTION		BRG		BRG		TOP CH. LL = 34.8 PSF				
E - H	2x4	DRY	No.2	SPF	JT	VERT	HORZ	DOWN	HORZ	UPLFT	IN-SX	IN-SX	DL = 6.0 PSF				
O - B	2x4	DRY	No.2	SPF	O	2164	0	2164	0	0	5-8	3-9	BOT CH. LL = 0.0 PSF				
I - G	2x4	DRY	No.2	SPF	I	2164	0	2164	0	0	5-8	3-9	DL = 7.3 PSF				
O - L	2x4	DRY	No.2	SPF											TOTAL LOAD = 48.1 PSF		
L - I	2x4	DRY	No.2	SPF													
				UNFACTORED REACTIONS										SPACING = 24.0 IN. C/C			
ALL WEBS				2x3				DRY		No.2		SPF		1ST CASE		MAX./MIN. COMPONENT REACTIONS	
EXCEPT														JT		COMBINED	
														SNOW		LIVE	
														PERM.LIVE		WIND	
														DEAD		SOIL	
														O		1510	
														I		1510	
														O		1107 / 0	
														I		1107 / 0	
														O		0 / 0	
														I		0 / 0	
														O		403 / 0	
														I		403 / 0	
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PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW4	MTZ0	4.0	8.0	1.50	3.00
C	CTMWW4	MTZ0	3.0	4.0	1.50	1.75
D	DTWw-m	MTZ0	4.0	6.0	1.75	2.25
E	TTW-m	MTZ0	4.0	4.0	2.25	1.75
F	TMVW4	MTZ0	3.0	4.0	1.50	1.75
G	TMVW4	MTZ0	4.0	8.0	1.50	3.00
I	BMV1+p	MTZ0	3.0	4.0		
J	BMVW4	MTZ0	4.0	6.0	1.75	1.75
K	CTMWW4	MTZ0	3.0	4.0		
L	BS4	MTZ0	3.0	5.0		
M	BMVW4	MTZ0	3.0	4.0		
N	BMVW4	MTZ0	4.0	6.0	1.75	1.75
O	BMV1+p	MTZ0	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
VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
2164	0	2164	0	0	5-8
2164	0	2164	0	0	3-9
2164	0	2164	0	0	5-8
2164	0	2164	0	0	3-9

UNFACTORED REACTIONS

JT	1ST LCASE	MAX, MIN, COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
O	1510	1107 / 0	0 / 0	0 / 0	0 / 0	403 / 0	0 / 0
I	1510	1107 / 0	0 / 0	0 / 0	0 / 0	403 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.32 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM TO		LENGTH	FR-TO			
A-B	0 / 36	-119.4	-119.4	0.16 (1)	10.00	N-C	-259 / 36	0.07 (1)
B-C	-2880 / 0	-119.4	-119.4	0.89 (1)	3.32	C-M	-634 / 0	0.60 (1)
C-D	-2362 / 0	-119.4	-119.4	0.82 (1)	3.71	M-D	0 / 450	0.10 (1)
D-E	-2085 / 0	-119.4	-119.4	0.54 (1)	4.03	D-K	0 / 1	0.00 (1)
E-F	-2363 / 0	-119.4	-119.4	0.82 (1)	3.71	K-E	0 / 451	0.10 (1)
F-G	-2880 / 0	-119.4	-119.4	0.89 (1)	3.32	K-F	-633 / 0	0.60 (1)
G-H	0 / 36	-119.4	-119.4	0.16 (1)	10.00	J-F	-280 / 35	0.07 (1)
C-B	-2116 / 0	0.0	0.0	0.21 (1)	5.75	B-N	0 / 2635	0.59 (1)
I-G	-2116 / 0	0.0	0.0	0.21 (1)	5.75	J-G	0 / 2635	0.59 (1)
O-N	0 / 0	-18.2	-18.2	0.15 (4)	10.00			
N-M	0 / 2609	-18.2	-18.2	0.48 (1)	10.00			
M-L	0 / 2085	-18.2	-18.2	0.40 (1)	10.00			
L-K	0 / 2085	-18.2	-18.2	0.40 (1)	10.00			
K-J	0 / 2608	-18.2	-18.2	0.48 (1)	10.00			
J-I	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

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 (0.97")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.22")

CSI: TC=0.69/0.97 (B-C:1), BC=0.48/0.97 (J-K:1), WB=0.60/0.97 (C-M:1), SSI=0.31/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

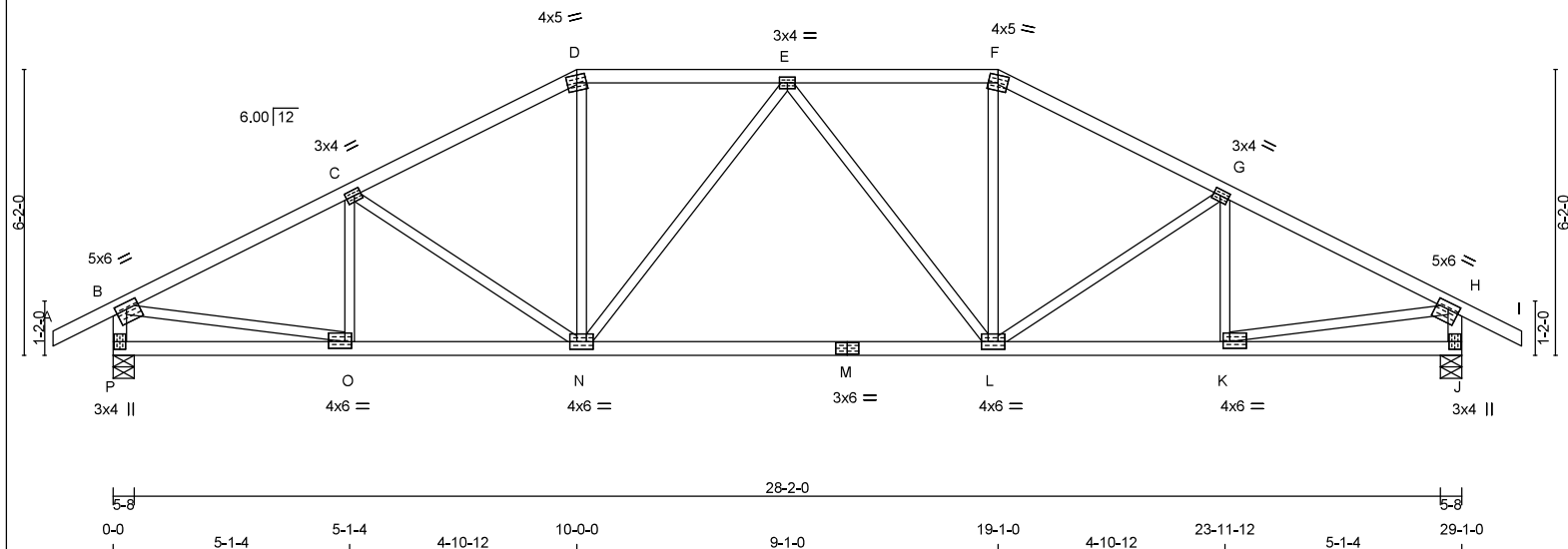
JSI GRIP= 0.86 (N) (INPUT = 0.90)
JSI METAL= 0.62 (N) (INPUT = 1.00)



**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 NE0723-109	TRUSS NAME T07	CORPORATION OF THE CITY OF OSHAWA TRUE COPY OF PERMIT PLANS NOV 04 2023 PER: <i>Chen</i> CHIEF BUILDING OFFICIAL	JOB DESC. GREENPARK - ZADORRA ESTATES - VILLA 3-3	DRWG NO. 1630 S Mar 22 2023 MiTek Industries, Inc. Tue Jul 18 13:55:41 2023 Page 1 ID: mC1cwXUP6XdYyHjz1t55Sqz9NH0-ZJAwcqFdp1QOImuA7JPvQTUJ6eAVZupFjJr5BPYwqBW
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TOTAL WEIGHT = 2 X 117 = 234 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW4	MT20	5.0	6.0	1.75	2.75
C	TMVW4	MT20	3.0	4.0	1.50	1.75
D	TTW-m	MT20	4.0	5.0		
E	TMVW4	MT20	3.0	4.0		
F	TTW-m	MT20	4.0	5.0		
G	TMVW4	MT20	3.0	4.0	1.50	1.75
H	TMVW4	MT20	5.0	6.0	1.75	2.75
J	BMV1+p	MT20	3.0	4.0		
K	BMVW4	MT20	4.0	6.0	1.75	1.75
L	BMVW4	MT20	4.0	6.0		
M	BS4	MT20	3.0	6.0		
N	BMVW4	MT20	4.0	6.0		
O	BMVW4	MT20	4.0	6.0	1.75	1.75
P	BMV1+p	MT20	3.0	4.0		

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

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
P	2164	0	2164	0	0	5-8	3-9
J	2164	0	2164	0	0	5-8	3-9

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
P	1510	1107 / 0	0 / 0	0 / 0	0 / 0	403 / 0	0 / 0
J	1510	1107 / 0	0 / 0	0 / 0	0 / 0	403 / 0	0 / 0

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

BRACINGTOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.63 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. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 36	-119.4	-119.4 0.16 (1)	10.00	O-C	-358 / 0	0.08 (1)
B-C	-2845 / 0	-119.4	-119.4 0.49 (1)	3.63	C-N	-389 / 0	0.25 (1)
C-D	-2549 / 0	-119.4	-119.4 0.46 (1)	3.84	N-D	0 / 695	0.16 (1)
D-E	-2263 / 0	-119.4	-119.4 0.37 (1)	4.14	N-E	-414 / 0	0.44 (1)
E-F	-2263 / 0	-119.4	-119.4 0.37 (1)	4.14	E-L	-414 / 0	0.44 (1)
F-G	-2549 / 0	-119.4	-119.4 0.46 (1)	3.84	L-F	0 / 695	0.16 (1)
G-H	-2845 / 0	-119.4	-119.4 0.49 (1)	3.63	L-G	-389 / 0	0.25 (1)
H-I	0 / 36	-119.4	-119.4 0.16 (1)	10.00	K-G	-358 / 0	0.08 (1)
P-B	-2118 / 0	0.0	0.0 0.21 (1)	5.75	B-O	0 / 2608	0.59 (1)
J-H	-2118 / 0	0.0	0.0 0.21 (1)	5.75	K-H	0 / 2608	0.59 (1)
P-O	0 / 0	-18.2	-18.2 0.11 (4)	10.00			
O-N	0 / 2572	-18.2	-18.2 0.54 (1)	10.00			
N-M	0 / 2512	-18.2	-18.2 0.53 (1)	10.00			
M-L	0 / 2512	-18.2	-18.2 0.53 (1)	10.00			
L-K	0 / 2572	-18.2	-18.2 0.54 (1)	10.00			
K-J	0 / 0	-18.2	-18.2 0.11 (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 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 (0.97")
CALCULATED VERT. DEFL.(LL)= L/999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL)= L/999 (0.31")CSI: TC=0.49/0.97 (G-H:1), BC=0.54/0.97 (K-L:1),
WB=0.59/0.97 (H-K:1), SS=0.26/1.00 (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
(PS)	(PL)	(PS)	(PL)
MAX	MIN	MAX	MIN
MT20	650	371	1747
		788	1987

PLATE PLACEMENT TOL. = 0.250 inches

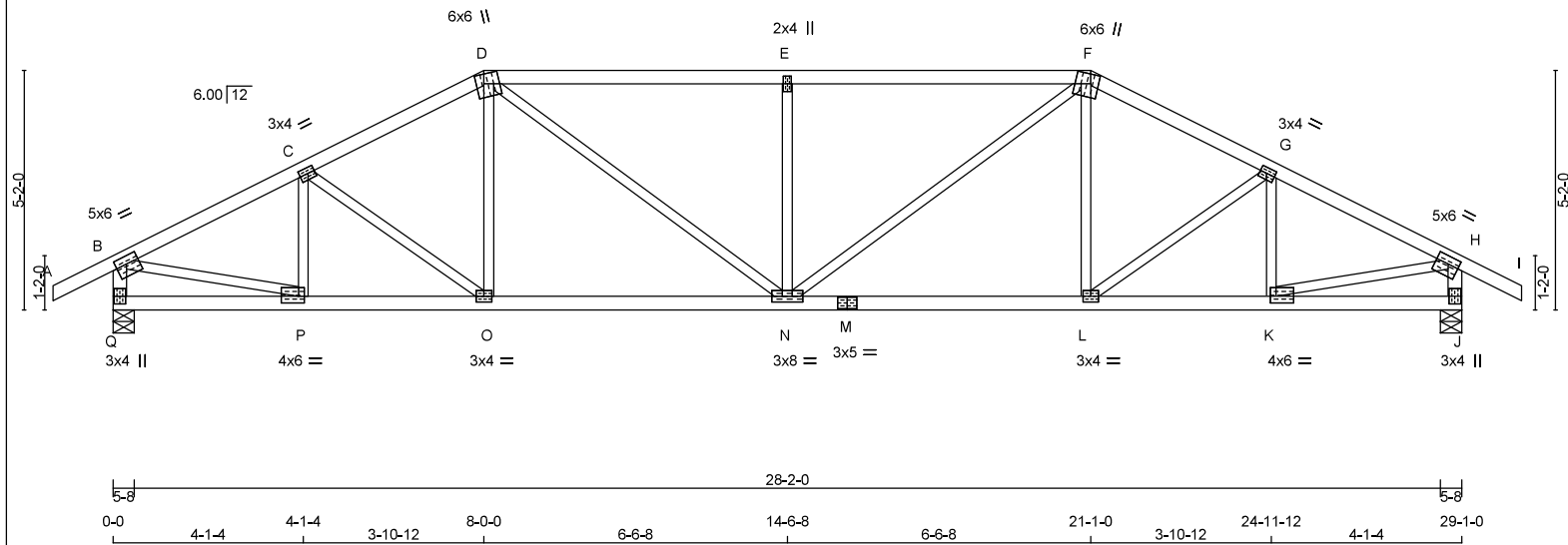
PLATE ROTATION TOL. = 5.0 Deg.

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

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 NE0723-109	TRUSS NAME T08	CORPORATION OF THE CITY OF OSHAWA DESIGN COPY OF PERMIT PLANS NOV 04 2023 CHIEF BUILDING OFFICIAL	JOB DESC. GREENPARK - ZADORRA ESTATES - VILLA 3-3	DRWG NO.
-1-3-8 0-0 4-1-4 3-10-12 14-6-8 6-6-8 21-1-0 3-10-12 24-11-12 4-1-4 29-1-0 30-4-8 1-3-8 Scale = 1:49.6				



TOTAL WEIGHT = 115 lb

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW4	MT20	5.0	6.0	2.00	2.75
C	TMVW4	MT20	3.0	4.0	1.50	1.75
D	TTVW+m	MT20	6.0	6.0	2.50	2.00
E	TMVW+w	MT20	2.0	4.0		
F	TTVW+m	MT20	6.0	6.0	2.50	2.00
G	TMVW4	MT20	3.0	4.0	1.50	1.75
H	TMVW4	MT20	5.0	6.0	2.00	2.75
J	BMV1+p	MT20	3.0	4.0		
K	BMVW4	MT20	4.0	6.0	1.75	1.50
L	BMVW4	MT20	3.0	4.0		
M	BS4	MT20	3.0	5.0		
N	BMVW4	MT20	3.0	8.0		
O	BMVW4	MT20	3.0	4.0		
P	BMVW4	MT20	4.0	6.0	1.75	1.50
Q	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	HORZ
Q	2164	0	2164	0
J	2164	0	2164	0

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
Q	1510	1107 / 0	0 / 0	0 / 0	0 / 0	403 / 0	0 / 0
J	1510	1107 / 0	0 / 0	0 / 0	0 / 0	403 / 0	0 / 0

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

BRACINGTOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.86 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 LC1 (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO				FR-TO			
A-B	0 / 36	-119.4	-119.4 0.16 (1)	P-C	-465 / 0	0.09 (1)	
B-C	-2764 / 0	-119.4	-119.4 0.32 (1)	C-D	-121 / 0	0.05 (1)	
C-D	-2703 / 0	-119.4	-119.4 0.31 (1)	D-E	0 / 183	0.04 (4)	
D-E	-3121 / 0	-119.4	-119.4 0.84 (1)	E-F	0 / 902	0.20 (1)	
E-F	-3121 / 0	-119.4	-119.4 0.84 (1)	F-G	-961 / 0	0.38 (1)	
F-G	-2703 / 0	-119.4	-119.4 0.31 (1)	G-H	0 / 902	0.20 (1)	
G-H	-2764 / 0	-119.4	-119.4 0.32 (1)	H-I	0 / 183	0.04 (4)	
H-I	0 / 36	-119.4	-119.4 0.16 (1)	I-J	-121 / 0	0.05 (1)	
I-J	-2124 / 0	0.0	0.0 0.21 (1)	J-K	-465 / 0	0.09 (1)	
J-K	-2124 / 0	0.0	0.0 0.21 (1)	K-L	0 / 2546	0.57 (1)	
K-L	0 / 0	-18.2	-18.2 0.07 (4)	L-M	0 / 2546	0.57 (1)	
L-M	0 / 2492	-18.2	-18.2 0.47 (1)	M-N			
M-N	0 / 2398	-18.2	-18.2 0.46 (1)	N-O			
N-O	0 / 2398	-18.2	-18.2 0.46 (1)	O-P			
O-P	0 / 2398	-18.2	-18.2 0.46 (1)	P-Q			
P-Q	0 / 2492	-18.2	-18.2 0.47 (1)	Q-R			
Q-R	0 / 0	-18.2	-18.2 0.07 (4)	R-S			

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 (0.97")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
 ALLOWABLE DEFL.(TL) = L/360 (0.97")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.27")

 CSI: TC=0.84/0.97 (D-E:1) , BC=0.47/0.97 (K-L:1) ,
 WB=0.57/0.97 (H-K:1) , SS=0.38/1.00 (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 (PSI)	SECTION (PL)
MT20	650	371	1747
			788
			1987
			1873

PLATE PLACEMENT TOL. = 0.250 inches

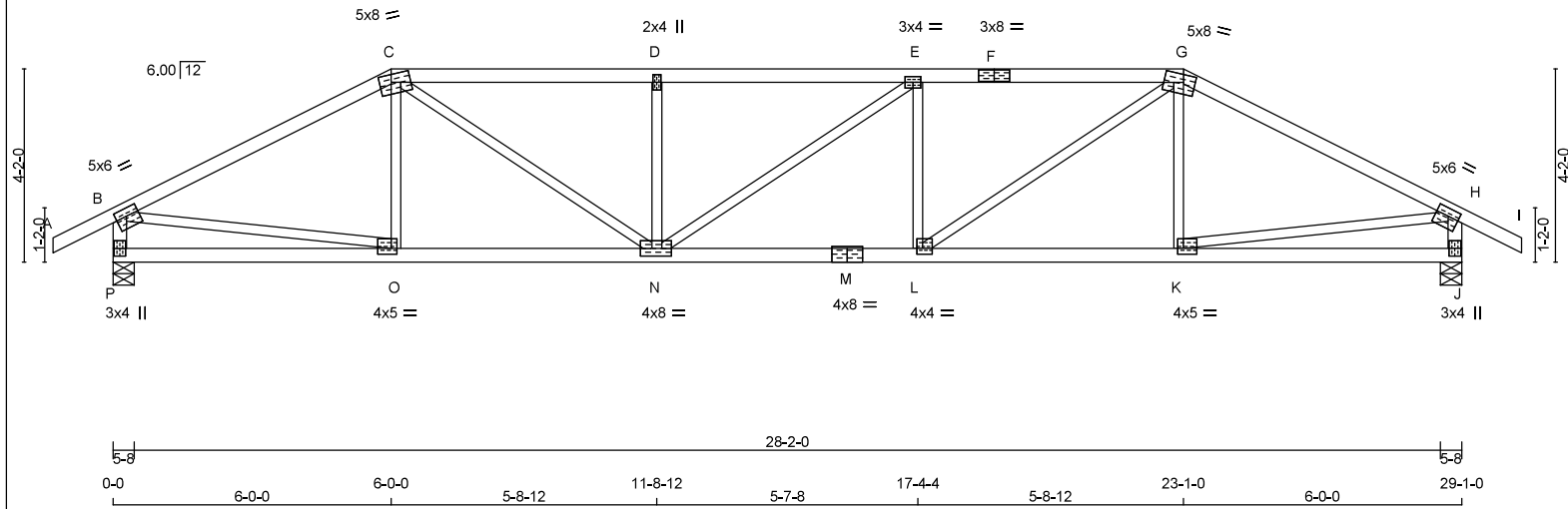
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (H) (INPUT = 0.90)
JSI METAL = 0.70 (M) (INPUT = 1.00)

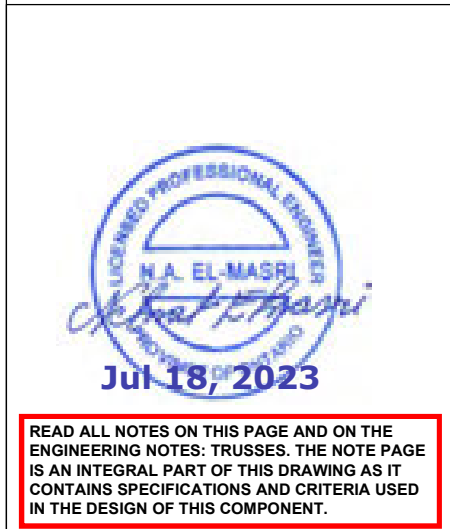
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



JOB NAME NE0723-109	TRUSS NAME T09	CORPORATION OF THE CITY OF OSHAWA PERMIT COPY OF PERMIT PLANS NOV 04 2023 CHIEF BUILDING OFFICIAL	JOB DESC. GREENPARK - ZADORRA ESTATES - VILLA 3-3	DRWG NO.
ID: mC1cvwUP6XdYyHjz1I55Sqz9NHU-Wilg1VHTLf6X32YEkSNVuzYhSp31peYBdKCFlywqBU Version: 1.630 S Mar 22 2023 MiTek Industries, Inc. Tue Jul 18 13:55:43 2023 Page 1				
Scale = 1:49.6 -1-3-8 0-0 6-0-0 6-0-0 5-7-8 17-4-4 5-8-12 23-1-0 6-0-0 29-1-0 1-3-8 30-4-8				

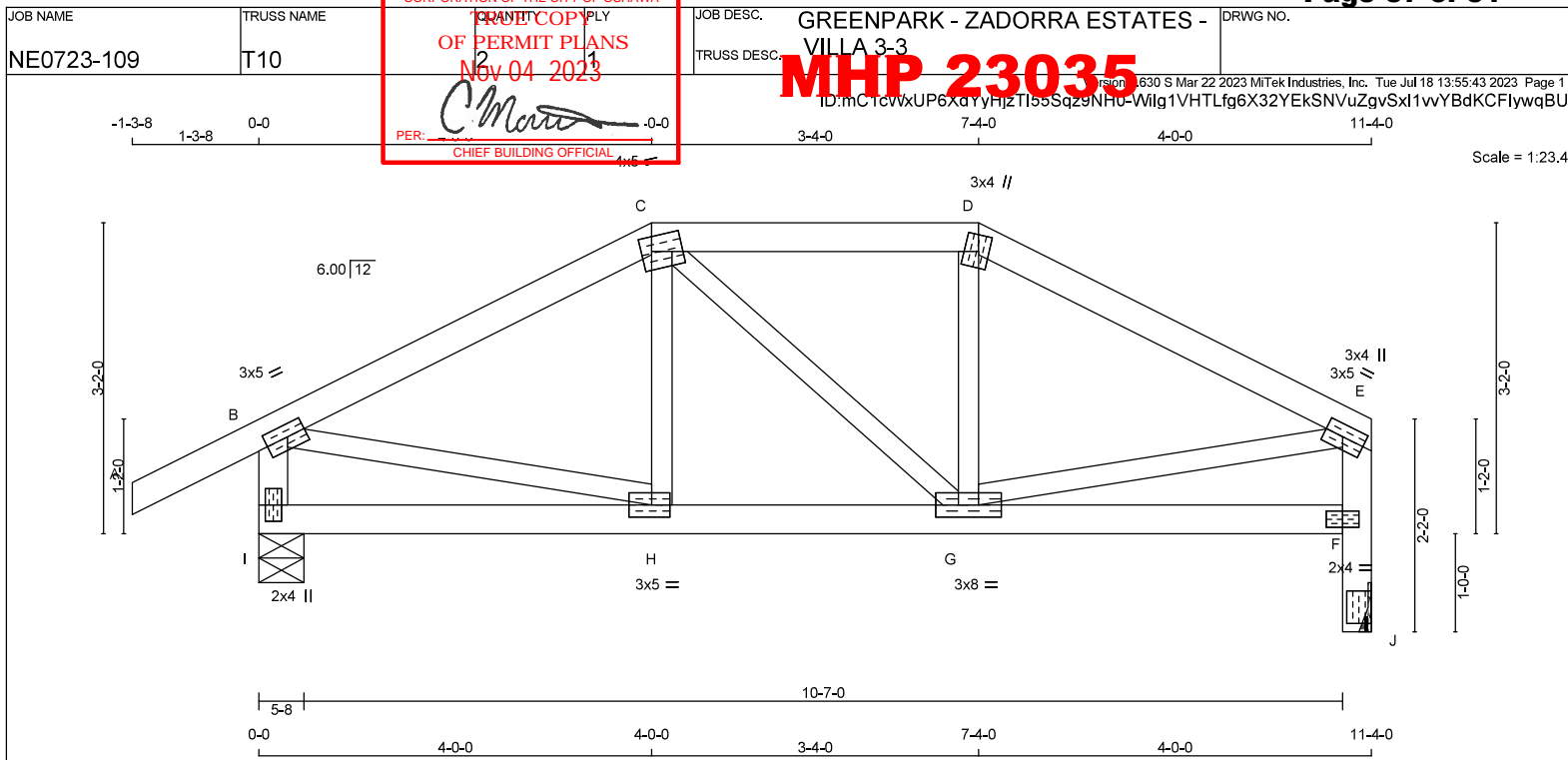


LUMBER										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING										DESIGN CRITERIA									
N. L. G. A. RULES										DESIGNER										SPECIFIED LOADS:									
CHORDS SIZE LUMBER										BEARINGS										TOP CH. LL = 34.8 PSF									
A - C 2x4 DRY 2100F 1.8E										FACTORED										DL = 6.0 PSF									
C - F 2x4 DRY No.2										GROSS REACTION										BOT CH. LL = 0.0 PSF									
F - G 2x4 DRY No.2										JT VERT HORZ DOWN HORZ UPLIFT IN-SX										DL = 7.3 PSF									
G - I 2x4 DRY 2100F 1.8E										P 2164 0 2164 0 0 5-8 3-9										TOTAL LOAD = 48.1 PSF									
P - B 2x4 DRY No.2										J 2164 0 2164 0 0 5-8 3-9																			
J - H 2x4 DRY No.2																													
P - M 2x4 DRY No.2																													
M - J 2x4 DRY No.2																													
ALL WEBS 2x3 DRY No.2										UNFACTORED REACTIONS										SPACING = 24.0 IN./C/C									
EXCEPT										1ST CASE MAX./MIN. COMPONENT REACTIONS																			
DRY: SEASONED LUMBER.										JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL										LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM									
										P 1510 1107 / 0 0 / 0 0 / 0 403 / 0 0 / 0										THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015									
										J 1510 1107 / 0 0 / 0 0 / 0 403 / 0 0 / 0										THIS DESIGN COMPLIES WITH:									
										BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) P, J										- PART 9 OF CBC 2018 , NBC-2019AE									
										BRACING										- PART 9 OF OBC 2012 (2019 AMENDMENT)									
										TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.78 FT.										- CSA 086-14									
										MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.										- TPIC 2014									
										ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.										(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									
PLATES (table is in inches)										LOADING										ALLOWABLE DEFL.(LL)= L/360 (0.97")									
JT TYPE PLATES W LEN Y X										TOTAL LOAD CASES: (4)										CALCULATED VERT. DEFL.(LL) = L/ 999 (0.21")									
B TMWV4 MT20 5.0 6.0 2.00 2.75										CHORDS										ALLOWABLE DEFL.(TL)= L/360 (0.97")									
C TTWW-m MT20 5.0 8.0 2.00 3.00										MAX. FACTORED										CALCULATED VERT. DEFL.(TL) = L/ 947 (0.37")									
D TMWV-w MT20 2.0 4.0										VERT. LOAD LC1										CSI: TC=0.87/0.97 (C-D:1) , BC=0.86/0.97 (L-N:1) ,									
E TMWV-H MT20 3.0 4.0										MAX. UNBRAC										WB=0.57/0.97 (B-O:1) , SSI=0.32/1.00 (C-D:1)									
F TS4 MT20 3.0 8.0										MEMB.										DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10									
G TTWW-m MT20 5.0 8.0 2.00 3.00										MAX. FACTORED										SHEAR=1.10 TENS= 1.10									
H TMWV4 MT20 5.0 6.0 2.00 2.75										FORCE (LBS)										COMPANION LIVE LOAD FACTOR = 1.00									
J BMV1+p MT20 3.0 4.0										VERT. LOAD LC1										TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE									
K BMWV4 MT20 4.0 5.0 1.50 1.50										MAX. UNBRAC										FOR QUALITY CONTROL IN THE TRUSS									
L BMWV4 MT20 4.0 4.0 1.50 1.50										LENGTH FR-TO										MANUFACTURING PLANT .									
M BS4 MT20 4.0 8.0										FR-TO										NAIL VALUES									
N BMWVWV-H MT20 4.0 8.0 2.00 3.00										A-B 0 / 36										PLATE GRIP(DRY) SHEAR SECTION									
O BMWV4 MT20 4.0 5.0 1.50 1.50										B-C -2784 / 0										(PSI) (PLI)									
P BMV1+p MT20 3.0 4.0										C-D -3714 / 0																			
										D-E -3714 / 0																			
										E-F -3715 / 0																			
										F-G -3715 / 0																			
										G-H -2784 / 0																			
										H-I 0 / 36																			
										P-B -2118 / 0																			
										J-H -2118 / 0																			



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 = 2 X 45 = 90 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
I - B	2x4	DRY	No.2
J - E	2x4	DRY	No.2
I - F	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	TMVW-4	MT20	3.0	5.0	1.50	2.25
C	TTVW-m	MT20	4.0	5.0	1.75	1.25
D	TTW-m	MT20	3.0	4.0	2.00	1.25
E	TMVW-4	MT20	3.0	5.0	1.50	2.25
F	BVM-4	MT20	2.0	4.0		
G	BMVW-4	MT20	3.0	8.0		
H	BMVW-4	MT20	3.0	5.0	1.50	2.25
I	BMV1+p	MT20	2.0	4.0		
J	EBSP-t	MT20	3.0	4.0		1.00

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
I	942	0	942	0
J	780	0	780	0

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	656	489 / 0	0 / 0	0 / 0	0 / 0	167 / 0	0 / 0
J	545	395 / 0	0 / 0	0 / 0	0 / 0	151 / 0	0 / 0

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

BRACINGTOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.20 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 LC1 (PLF)	MAX. UNBRACED LENGTH FR-TO (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH FR-TO (LC)	
FR-TO	0 / 36	-119.4	-119.4 0.16 (1)	10.00	H-C	-80 / 37	0.01 (1)
B-C	-799 / 0	-119.4	-119.4 0.34 (1)	6.21	C-G	0 / 2	0.00 (4)
C-D	-712 / 0	-119.4	-119.4 0.23 (1)	6.25	G-D	-78 / 39	0.01 (1)
D-E	-803 / 0	-119.4	-119.4 0.34 (1)	6.20	B-H	0 / 730	0.16 (1)
I-B	-909 / 0	0.0	0.0 0.08 (1)	7.81	G-E	0 / 732	0.16 (1)
J-F	-780 / 0	0.0	0.0 0.08 (1)	7.81			
F-E	-746 / 0	0.0	0.0 0.08 (1)	7.81			
I-H	0 / 0	-18.2	-18.2 0.07 (4)	10.00			
H-G	0 / 711	-18.2	-18.2 0.14 (1)	10.00			
G-F	0 / 0	-18.2	-18.2 0.07 (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 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 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.38")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")CSI: TC=0.34/0.97 (D-E:1), BC=0.14/0.97 (G-H:1),
WB=0.16/0.97 (E-G:1), SSI=0.17/1.00 (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.

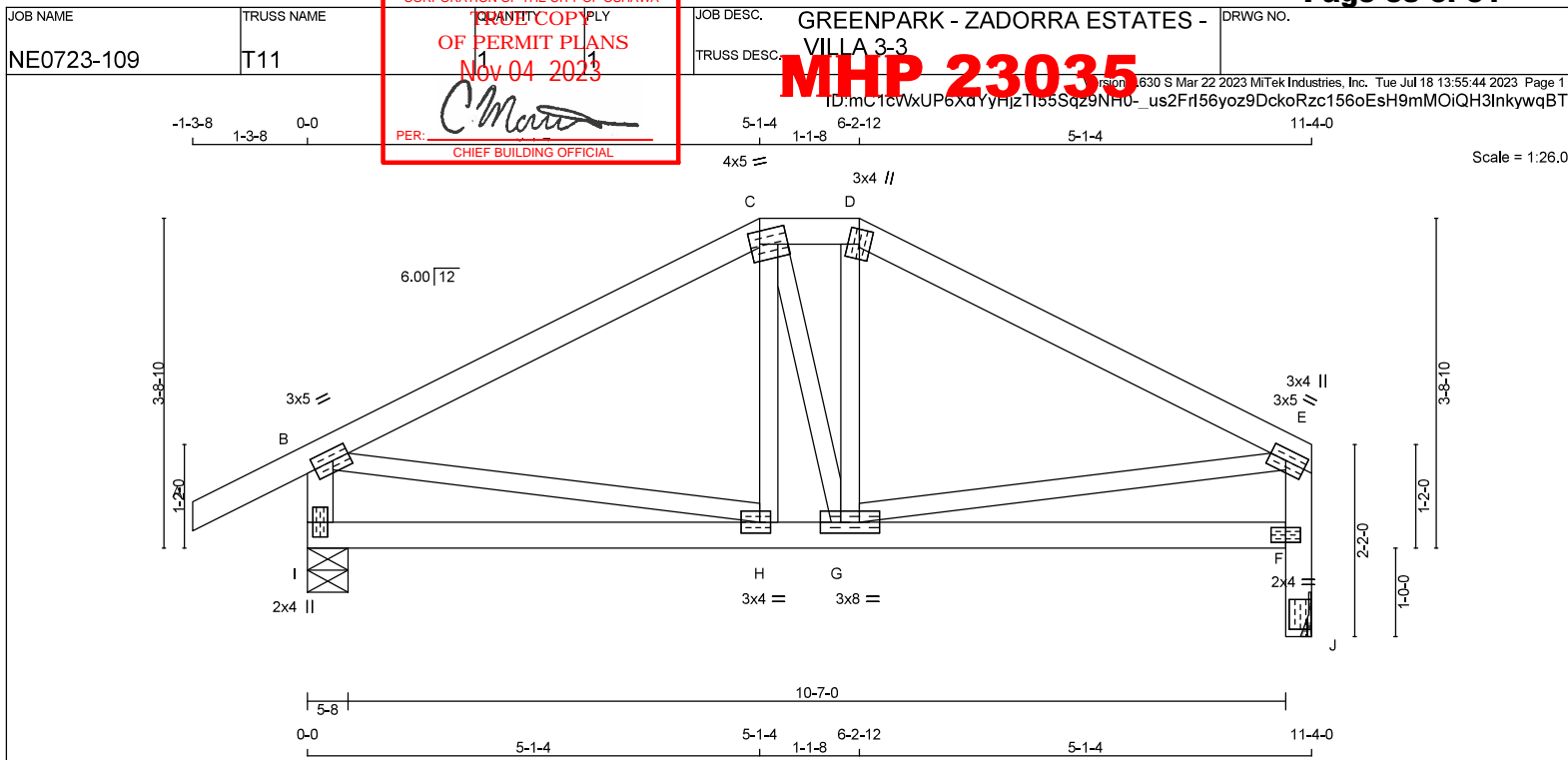
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PL)
(PSI) (PL)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (G) (INPUT = 0.90)
JSI METAL = 0.28 (B) (INPUT = 1.00)

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.

**LUMBER**

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
I - B	2x4	DRY	No.2
J - E	2x4	DRY	No.2
I - F	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	TMVW-4	MT20	3.0	5.0	1.50	2.25
C	TTVW-m	MT20	4.0	5.0	1.75	1.25
D	TTW-m	MT20	3.0	4.0		
E	TMVW-4	MT20	3.0	5.0	1.50	2.25
F	BVM-4	MT20	2.0	4.0		
G	BMVW-4	MT20	3.0	8.0		
H	BMVW-4	MT20	3.0	4.0	1.50	1.50
I	BMV1+p	MT20	2.0	4.0		
J	EBSP-t	MT20	3.0	4.0		1.00

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
I	942	0	942	0	0	5-8	1-8
J	780	0	780	0	0	MECHANICAL	

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	656	489 / 0	0 / 0	0 / 0	0 / 0	167 / 0	0 / 0
J	545	395 / 0	0 / 0	0 / 0	0 / 0	151 / 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 = 5.93 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. VERT. LOAD (LC1)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. VERT. LOAD (LC1)	
FR-TO		FROM	TO		FR-TO			
A-B	0 / 36	-119.4	-119.4	0.16 (1)	10.00	H-C	-44 / 38	0.01 (4)
B-C	-731 / 0	-119.4	-119.4	0.56 (1)	5.93	C-G	0 / 4	0.00 (4)
C-D	-652 / 0	-119.4	-119.4	0.03 (1)	6.25	G-D	-44 / 42	0.01 (4)
D-E	-732 / 0	-119.4	-119.4	0.56 (1)	5.93	B-H	0 / 663	0.15 (1)
I-B	-902 / 0	0.0	0.0	0.09 (1)	7.81	G-E	0 / 663	0.15 (1)
J-F	-780 / 0	0.0	0.0	0.08 (1)	7.81			
F-E	-740 / 0	0.0	0.0	0.08 (1)	7.81			
I-H	0 / 0	-18.2	-18.2	0.11 (4)	10.00			
H-G	0 / 652	-18.2	-18.2	0.16 (4)	10.00			
G-F	0 / 0	-18.2	-18.2	0.11 (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 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 (0.03")

CSI: TC=0.56/0.97 (D-E:1), BC=0.16/0.97 (G-H:4),
 WB=0.15/0.97 (E-G:1), SSI=0.21/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION
 (PSI) (PLI)
 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= 0.79 (B) (INPUT = 0.90)
 JSI METAL = 0.27 (B) (INPUT = 1.00)



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: NE0723-109

TRUSS NAME: T12

CORPORATION OF THE CITY OF OSHAWA

TRUE COPY

OF PERMIT PLANS

Nov 04 2023

PER: *[Signature]*

CHIEF BUILDING OFFICIAL

JOB DESC. GREENPARK - ZADORRA ESTATES - VILLA 3-3

TRUSS DESC. VILLA 3-3

DRWG NO.

Version: 1.630 S Mar 22 2023 MiTek Industries, Inc. Tue Jul 18 13:55:44 2023 Page 1

ID: mC TcWxUP6XdYyHjz1I55Sqz9NH0-us2F156yoz9DckoRzc156rYslymMPiQH3InkywqBT

Scale = 1:17.8

0-0 4-9-0 4-9-0 9-6-0

3x4 II

4.00 | 12

2-9-0 1-2-0

A 3x5 = B 3x5 = C 3x5 =

F 2x4 II E 3x8 = D 2x4 II

0-0 5-8 4-9-0 4-9-0 5-8 9-6-0

LUMBER

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

ALL WEBS EXCEPT 2x3 DRY No.2

DRY: SEASONED LUMBER.

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

DESCR.	SPF	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT VERT	SPF	0	DOWN	IN-SX	IN-SX
F	SPF	654	0	5-8	1-8
D	SPF	654	0	0	1-8

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	457	331 / 0	0 / 0	0 / 0	0 / 0	126 / 0	0 / 0
D	457	331 / 0	0 / 0	0 / 0	0 / 0	126 / 0	0 / 0

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	FR-TO
A-B	-684 / 0	-119.4	-119.4 0.35 (1)	E-B	-135 / 49	6.25	0.02 (1)
B-C	-684 / 0	-119.4	-119.4 0.35 (1)	A-E	0 / 659	6.25	0.15 (1)
F-A	-618 / 0	0.0	0.0 0.06 (1)	E-C	0 / 659	7.81	0.15 (1)
D-C	-618 / 0	0.0	0.0 0.06 (1)			7.81	
F-E	0 / 0	-18.2	-18.2 0.11 (4)				10.00
E-D	0 / 0	-18.2	-18.2 0.11 (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

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 (0.32")

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

ALLOWABLE DEFL.(TL) = L/360 (0.32")

CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.35/0.97 (B-C:1), BC=0.11/0.97 (D-E:4), WB=0.15/0.97 (A-E:1), SSI=0.21/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.71 (E) (INPUT = 0.90)

JSI METAL = 0.22 (C) (INPUT = 1.00)

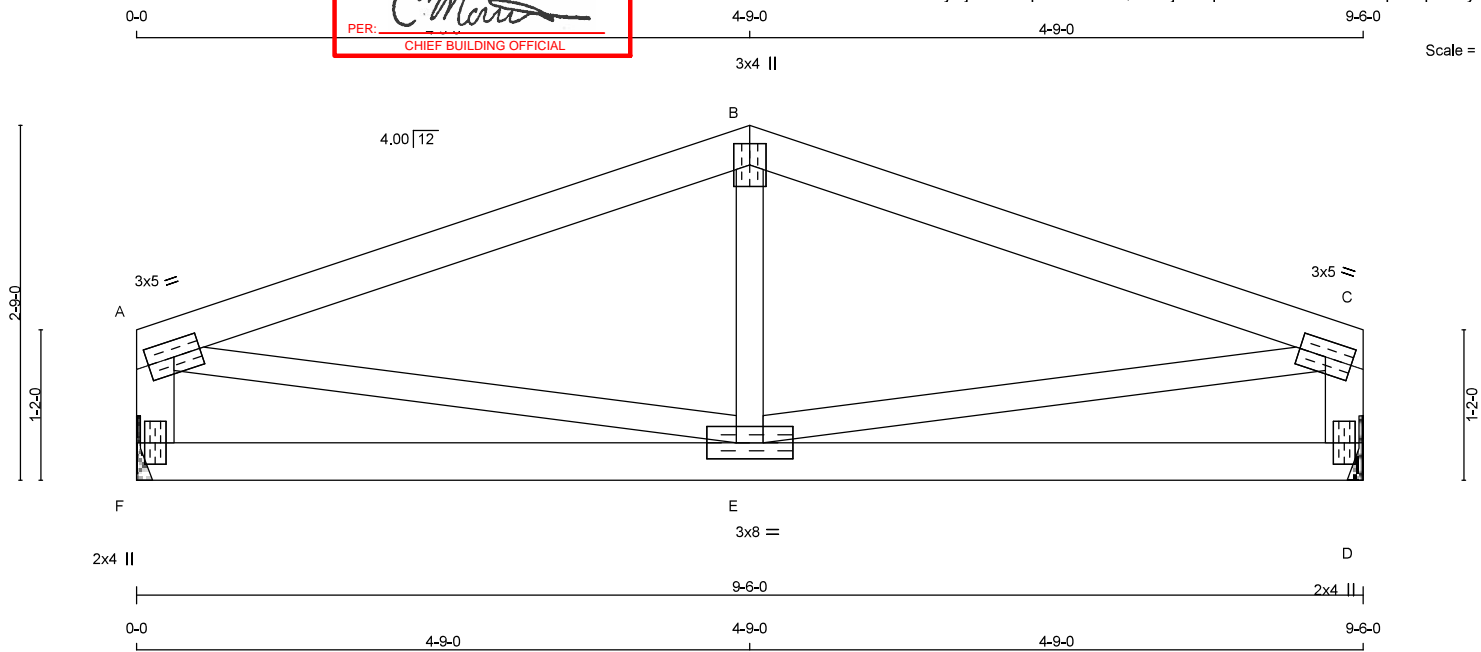
TOTAL WEIGHT = 33 lb [M][F]

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVWH	MT20	3.0	5.0		
B	TTW+p	MT20	3.0	4.0		
C	TMVWH	MT20	3.0	5.0		
D	BMV1+p	MT20	2.0	4.0		
E	BMVWH	MT20	3.0	8.0		
F	BMV1+p	MT20	2.0	4.0		

Jul 18, 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 = 2 X 33 = 66 lb

LUMBER

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

ALL WEBS EXCEPT	2x3	DRY	No.2
--------------------	-----	-----	------

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	3.0	5.0		
B	TTW+p	MT20	3.0	4.0		
C	TMVW-t	MT20	3.0	5.0		
D	BMV1+p	MT20	2.0	4.0		
E	BMVWWW-t	MT20	3.0	8.0		
F	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	UPLIFT	IN-SX	IN-SX
F	654	0	654	0	0	MECHANICAL	
D	654	0	654	0	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	457	331 / 0	0 / 0	0 / 0	0 / 0	126 / 0	0 / 0
D	457	331 / 0	0 / 0	0 / 0	0 / 0	126 / 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. UNBRAC LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH (LC)	
FR-TO				FR-TO			
A-B	-684 / 0	-119.4	0.35 (1)	E-B	-135 / 49	0.02 (1)	
B-C	-684 / 0	-119.4	0.35 (1)	E-C	0 / 659	0.15 (1)	
F-A	-618 / 0	0.0	0.06 (1)	E-C	0 / 659	0.15 (1)	
D-C	-618 / 0	0.0	0.06 (1)				
F-E	0 / 0	-18.2	0.11 (4)	10.00			
E-D	0 / 0	-18.2	0.11 (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 (0.32")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.32")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.35/0.97 (B-C:1), BC=0.11/0.97 (D-E:4), WB=0.15/0.97 (A-E:1), SSI=0.21/1.00 (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	MAX	MIN
MT20	650	371	1747	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

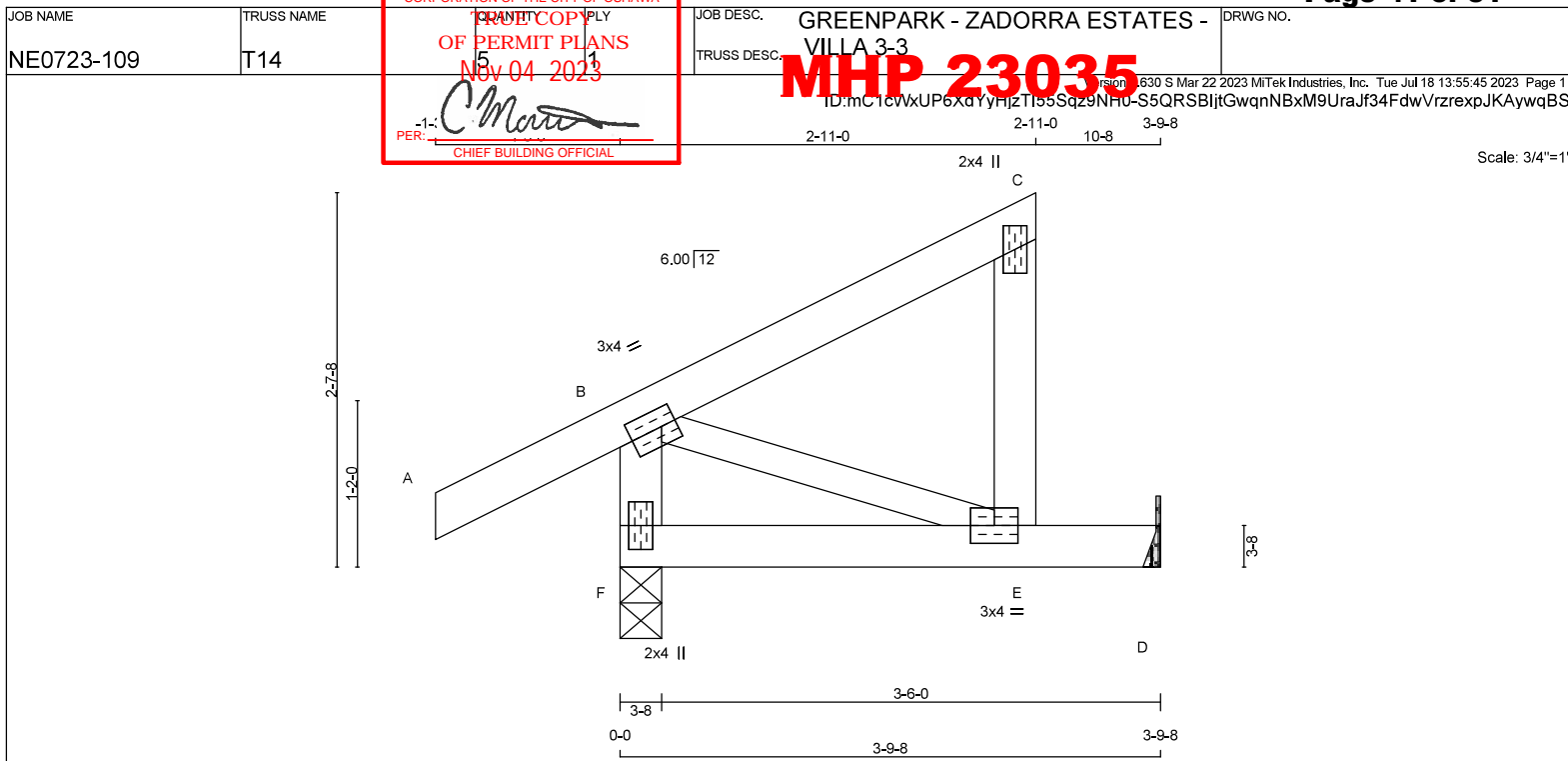
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.71 (E) (INPUT = 0.90)
JSI METAL= 0.22 (C) (INPUT = 1.00)



**READ ALL NOTES ON THIS PAGE AND ON THE
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IN THE DESIGN OF THIS COMPONENT.**





TOTAL WEIGHT = 5 X 15 = 75 lb

LUMBER

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

ALL WEBS 2x3 DRY No.2
 DRY: SEASONED LUMBER.

DESCR.
 SPF
 SPF
 SPF
 SPF

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW4	MT20	3.0	4.0	1.50	1.25
C	TMV+p	MT20	2.0	4.0		
E	BMVW4	MT20	3.0	4.0		
F	BMV1+p	MT20	2.0	4.0		

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

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
F	411	0	411	0	0	3-8	1-8
D	169	0	169	0	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	285	219 / 0	0 / 0	0 / 0	0 / 0	0 / 0	66 / 0	0 / 0
D	119	78 / 0	0 / 0	0 / 0	0 / 0	0 / 0	41 / 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 = 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: (7)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO				FR-TO		
A-B	0 / 36	-119.4	-119.4 0.16 (5)	B-E	0 / 0	0.00 (1)
B-C	0 / 0	-119.4	-119.4 0.17 (1)			
E-C	-174 / 0	0.0	0.0 0.02 (1)			
F-B	-336 / 0	0.0	0.0 0.03 (1)			
F-E	0 / 0	-18.2	-18.2 0.19 (1)			
E-D	0 / 0	-18.2	-18.2 0.19 (1)			

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

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 (0.02")
 ALLOWABLE DEFL.(TL) = L/360 (0.19")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.17/0.97 (B-C:1), BC=0.19/0.97 (E-F:1),
 WB=0.00/0.97 (B-E:1), SSI=0.13/1.00 (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.

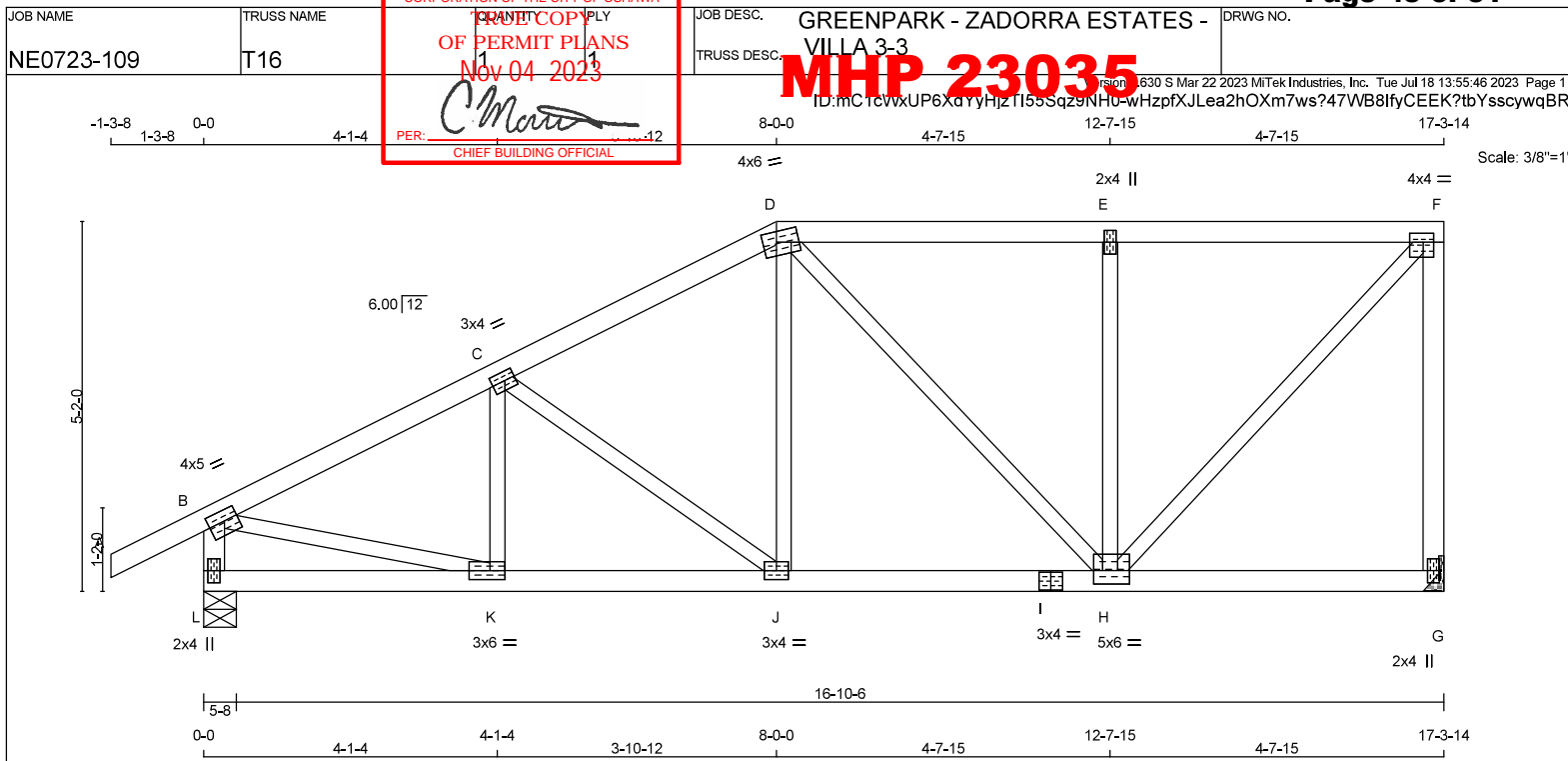
JSI GRIP= 0.30 (B) (INPUT = 0.90)
 JSI METAL= 0.07 (C) (INPUT = 1.00)



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.





**LUMBER**

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
G - F	2x4	DRY	No.2
L - B	2x4	DRY	No.2
L - I	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	TMVW4	MT20	4.0	5.0	1.75	2.25
C	TMVW4	MT20	3.0	4.0	1.50	1.75
D	TTVW4	MT20	4.0	6.0	1.75	2.25
E	TMVW4	MT20	2.0	4.0		
F	TMVW4	MT20	4.0	4.0	1.50	1.75
G	BMV1+p	MT20	2.0	4.0		
H	BMVW4	MT20	5.0	6.0	2.25	1.50
I	BS4	MT20	3.0	4.0		
J	BMVW4	MT20	3.0	4.0		
K	BMVW4	MT20	3.0	6.0	1.50	2.50
L	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
G 1192	0	1192	0
L 1355	0	1355	0

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
G	833	603 / 0	0 / 0	0 / 0	0 / 0	230 / 0	0 / 0
L	944	697 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.91 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.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM TO		LENGTH	FR-TO			
A-B	0 / 36	-119.4	-119.4	0.16 (1)	10.00	K-C	-212 / 14	0.04 (1)
B-C	-1499 / 0	-119.4	-119.4	0.34 (1)	4.91	C-D	-380 / 0	0.15 (1)
C-D	-1205 / 0	-119.4	-119.4	0.33 (1)	5.36	J-D	0 / 304	0.07 (1)
D-E	-903 / 0	-119.4	-119.4	0.45 (1)	5.74	D-H	-228 / 0	0.18 (1)
E-F	-903 / 0	-119.4	-119.4	0.45 (1)	5.74	H-E	-688 / 0	0.27 (1)
G-F	-1156 / 0	0.0	0.0	0.53 (1)	7.32	H-F	0 / 1306	0.29 (1)
L-B	-1319 / 0	0.0	0.0	0.13 (1)	6.96	B-K	0 / 1391	0.31 (1)
L-K	0 / 0	-18.2	-18.2	0.06 (4)	10.00			
K-J	0 / 1362	-18.2	-18.2	0.25 (1)	10.00			
J-I	0 / 1061	-18.2	-18.2	0.21 (1)	10.00			
I-H	0 / 1061	-18.2	-18.2	0.21 (1)	10.00			
H-G	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, 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 (0.58")

CALCULATED VERT. DEFL.(LL) = L/999 (0.04")

ALLOWABLE DEFL.(TL) = L/360 (0.58")

CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.53/0.97 (F-G:1), BC=0.25/0.97 (H-K:1), WB=0.31/0.97 (B-K:1), SSI=0.27/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

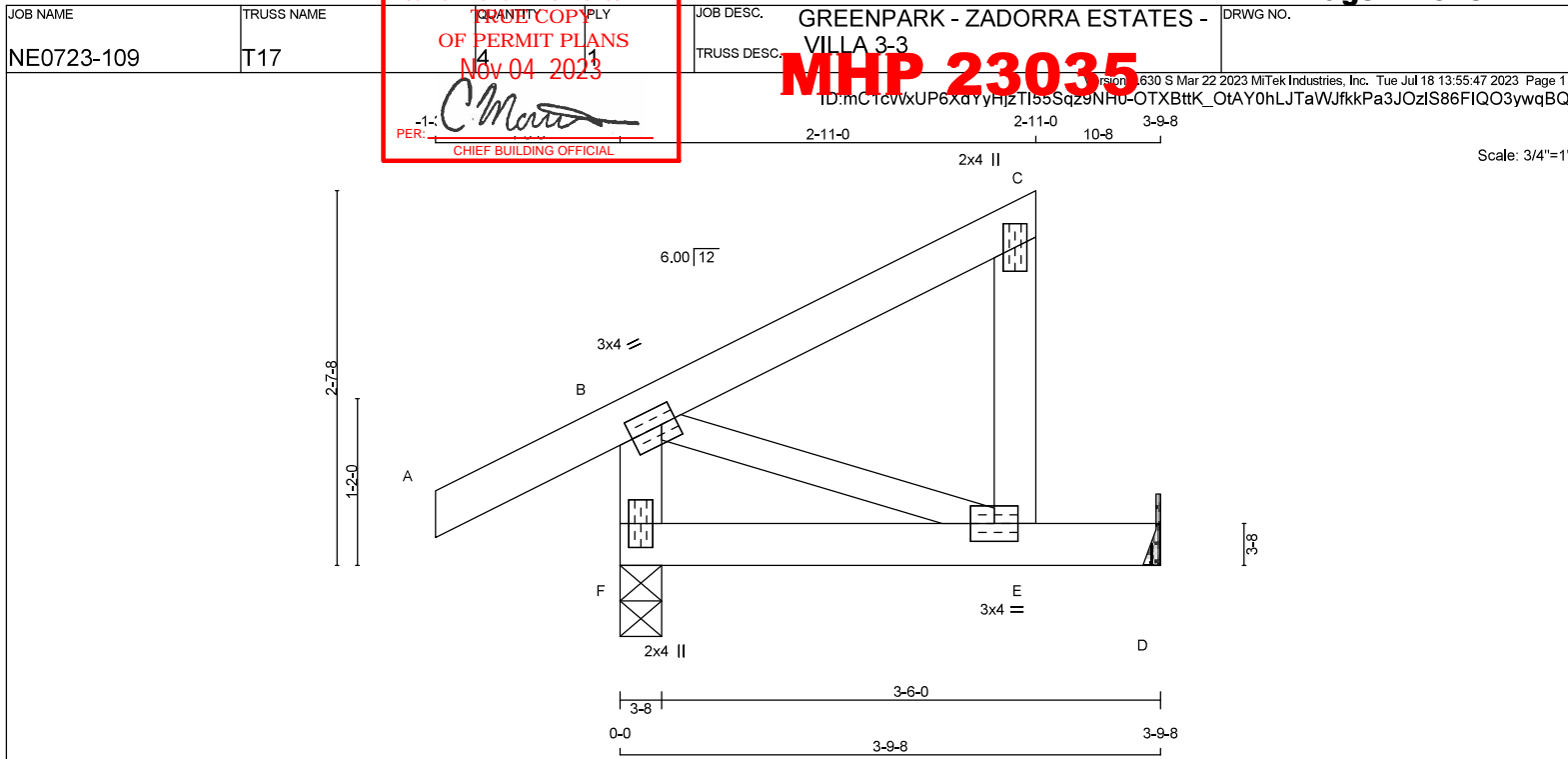
JSI GRIP= 0.90 (B) (INPUT = 0.90)

JSI METAL= 0.46 (B) (INPUT = 1.00)



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**LUMBER**

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

ALL WEBS 2x3 DRY No.2
 DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW4	MT20	3.0	4.0	1.50	1.25
C	TMV+p	MT20	2.0	4.0		
E	BMVW4	MT20	3.0	4.0		
F	BMV1+p	MT20	2.0	4.0		

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

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
F	411	0	411	0	0	3-8	1-8
D	169	0	169	0	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	285	219 / 0	0 / 0	0 / 0	0 / 0	0 / 0	66 / 0	0 / 0
D	119	78 / 0	0 / 0	0 / 0	0 / 0	0 / 0	41 / 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 = 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: (7)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO				FR-TO		
A-B	0 / 36	-119.4	-119.4 0.16 (5)	B-E	0 / 0	0.00 (1)
B-C	0 / 0	-119.4	-119.4 0.17 (1)			
E-C	-174 / 0	0.0	0.0 0.02 (1)			
F-B	-336 / 0	0.0	0.0 0.03 (1)			
F-E	0 / 0	-18.2	-18.2 0.19 (1)			
E-D	0 / 0	-18.2	-18.2 0.19 (1)			

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

(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 (0.02")
 ALLOWABLE DEFL.(TL) = L/360 (0.19")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.17/0.97 (B-C:1), BC=0.19/0.97 (D-E:1),
 WB=0.00/0.97 (B-E:1), SSI=0.13/1.00 (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)
 MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.30 (B) (INPUT = 0.90)
 JSI METAL= 0.07 (C) (INPUT = 1.00)



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.

