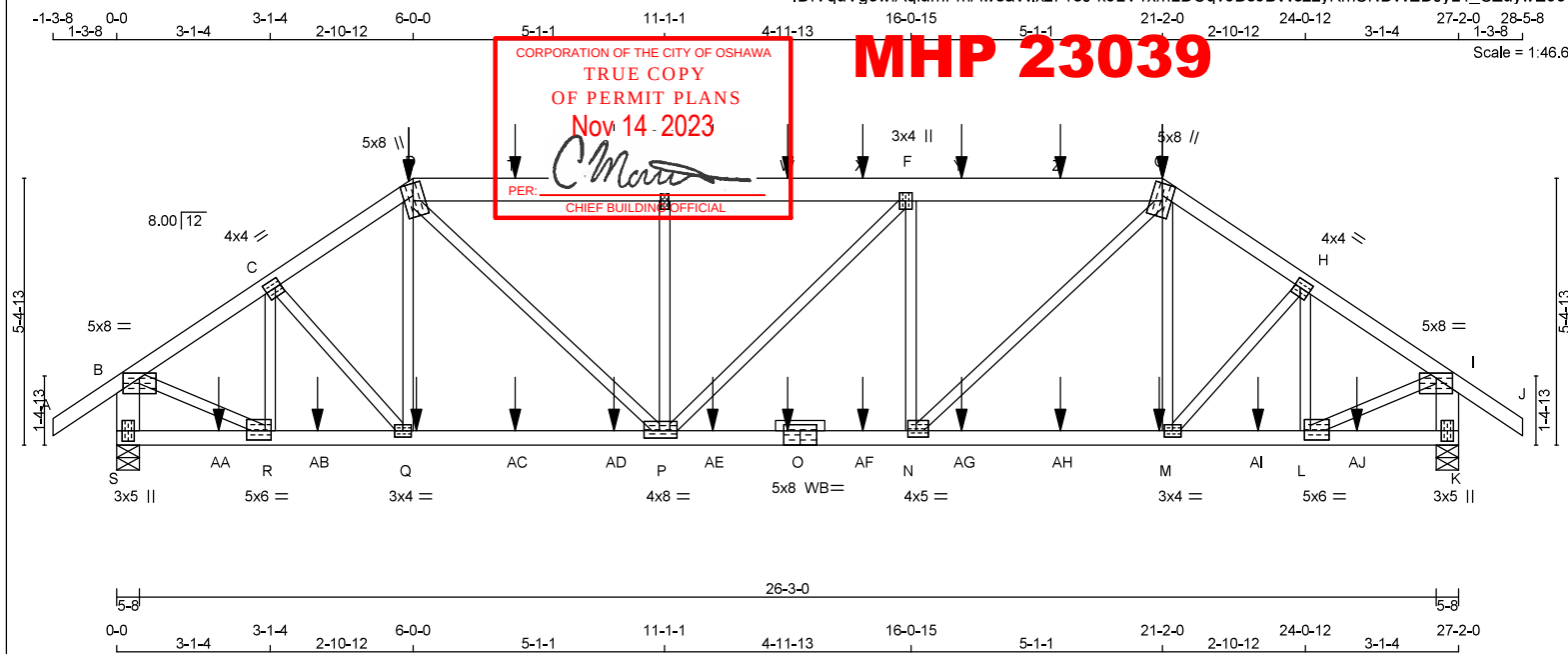


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-138	G01	1	1	GREENPARK - ZADORRA ESTATES - VILLA 12-2	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:23 2023 Page 1

ID:VquVgowiAqiumFmAwewaWlxz71eJ-k3LV1xmLDCqv0Bc3BWc2zyKmSNBWEDJyL1_SZuywE96

**LUMBER**

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - G	2x6	DRY	No.2	SPF
G - J	2x4	DRY	No.2	SPF
S - B	2x6	DRY	No.2	SPF
K - I	2x6	DRY	No.2	SPF
S - O	2x4	DRY	2100F 1.8E	SPF
O - K	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	TMVW+p	MT20	5.0	8.0	1.25	4.00
C	TMVW+q	MT20	4.0	4.0	2.00	1.50
D	TTVW+m	MT20	5.0	8.0	Edge	
E	TMVW+w	MT20	2.0	4.0		
F	TMVW+h	MT20	3.0	4.0		
G	TTVW+m	MT20	5.0	8.0	Edge	
H	TMVW+q	MT20	4.0	4.0	2.00	1.50
I	TMVW+p	MT20	5.0	8.0	1.25	4.00
K	BMV1+p	MT20	3.0	5.0		
L	BMVW+q	MT20	5.0	6.0	2.25	1.50
M	BMVW+q	MT20	3.0	4.0		
N	BMVW+q	MT20	4.0	5.0	1.50	2.00
O	BS+q	MT20	5.0	8.0		
P	BMVW+q	MT20	4.0	8.0	1.75	3.75
Q	BMVW+q	MT20	3.0	4.0		
R	BMVW+q	MT20	5.0	6.0	2.25	1.50
S	BMV1+p	MT20	3.0	5.0		

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

WB - INDICATES BLOCKING REQUIRED

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	UPLIFT	IN-SX
S	3350	0	3350	0
K	3351	0	3351	0

UNFACTORED REACTIONS

	1ST CASE	MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
S	2341	1696 / 0	0 / 0	0 / 0	0 / 0	645 / 0	0 / 0
K	2341	1696 / 0	0 / 0	0 / 0	0 / 0	645 / 0	0 / 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 = 3.17 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)
FR-TO					FR-TO			
A-B	0 / 45	-119.4	-119.4	0.18 (1)	10.00	R-C	-970 / 0	0.21 (1)
B-C	-3524 / 0	-119.4	-119.4	0.34 (1)	3.39	C-Q	0 / 482	0.12 (1)
C-D	-3930 / 0	-119.4	-119.4	0.38 (1)	3.17	Q-D	-200 / 69	0.09 (1)
D-T	-4562 / 0	-119.4	-119.4	0.47 (1)	3.55	D-P	0 / 1817	0.45 (1)
T-U	-4562 / 0	-119.4	-119.4	0.47 (1)	3.55	P-E	-1108 / 0	0.47 (1)
U-E	-4562 / 0	-119.4	-119.4	0.47 (1)	3.55	E-F	-12 / 0	0.01 (1)
E-V	-4561 / 0	-119.4	-119.4	0.48 (1)	3.53	F-H	-1116 / 0	0.47 (1)
V-W	-4561 / 0	-119.4	-119.4	0.48 (1)	3.53	N-G	0 / 1829	0.45 (1)
W-X	-4561 / 0	-119.4	-119.4	0.48 (1)	3.53	M-G	-204 / 68	0.09 (1)
X-F	-4561 / 0	-119.4	-119.4	0.48 (1)	3.53	M-H	0 / 481	0.12 (1)
F-Y	-4570 / 0	-119.4	-119.4	0.48 (1)	3.53	L-H	-969 / 0	0.21 (1)
Y-Z	-4570 / 0	-119.4	-119.4	0.48 (1)	3.53	B-R	0 / 3121	0.77 (1)
Z-G	-4570 / 0	-119.4	-119.4	0.48 (1)	3.53	L-I	0 / 3122	0.77 (1)
G-H	-3930 / 0	-119.4	-119.4	0.38 (1)	3.17			
H-I	-3525 / 0	-119.4	-119.4	0.34 (1)	3.39			
I-J	0 / 45	-119.4	-119.4	0.18 (1)	10.00			
S-B	-3307 / 0	0.0	0.0	0.24 (1)	5.71			
K-I	-3308 / 0	0.0	0.0	0.24 (1)	5.71			

S-AA	0 / 0	-18.2	-18.2	0.05 (4)	10.00
AA-R	0 / 0	-18.2	-18.2	0.05 (4)	10.00
R-AB	0 / 2948	-18.2	-18.2	0.30 (1)	10.00
AB-Q	0 / 2948	-18.2	-18.2	0.30 (1)	10.00
Q-AC	0 / 3272	-18.2	-18.2	0.32 (1)	10.00
AC-AD	0 / 3272	-18.2	-18.2	0.32 (1)	10.00
AD-P	0 / 3272	-18.2	-18.2	0.32 (1)	10.00
P-AE	0 / 4570	-18.2	-18.2	0.44 (1)	10.00
AE-O	0 / 4570	-18.2	-18.2	0.44 (1)	10.00
O-AF	0 / 4570	-18.2	-18.2	0.44 (1)	10.00
AF-N	0 / 4570	-18.2	-18.2	0.44 (1)	10.00
N-AG	0 / 3272	-18.2	-18.2	0.33 (1)	10.00
AG-AH	0 / 3272	-18.2	-18.2	0.33 (1)	10.00
AH-M	0 / 3272	-18.2	-18.2	0.33 (1)	10.00
MAI	0 / 2949	-18.2	-18.2	0.29 (1)	10.00
AI-L	0 / 2949	-18.2	-18.2	0.29 (1)	10.00
L-AJ	0 / 0	-18.2	-18.2	0.05 (4)	10.00
AJ-K	0 / 0	-18.2	-18.2	0.05 (4)	10.00

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	HEEL	CONN.
D	6-0-0	-423	-423	—	FRONT	VERT	—	C1
G	21-2-0	-423	-423	—	FRONT	VERT	—	C1
M	21-1-4	-22	-22	—	FRONT	VERT	—	C1
O	13-7-0	-22	-22	—	FRONT	VERT	—	C1
Q	6-0-12	-22	-22	—	FRONT	VERT	—	C1
T	8-0-12	-102	-102	—	FRONT	VERT	—	C1
U	10-0-12	-102	-102	—	FRONT	VERT	—	C1
V	12-0-12	-102	-102	—	FRONT	VERT	—	C1
W	13-7-0	-102	-102	—	FRONT	VERT	—	C1
X	15-1-4	-102	-102	—	FRONT	VERT	—	C1
Y	17-1-4	-102	-102	—	FRONT	VERT	—	C1

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
BOT CH.	LL	=	6.0	PSF
TOTAL	LL	=	7.3	PSF
TOTAL	LD	=	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 (0.91")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
 ALLOWABLE DEFL.(TL) = L/360 (0.91")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.27")

CSI: TC=0.48/0.97 (F-G-1), BC=0.44/0.97 (N-P-1),
 WB=0.77/0.97 (H-L-1), SSI=0.38/1.00 (F-G-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)	(PL)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (I) (INPUT = 0.90)
 JSI METAL= 0.99 (O) (INPUT = 1.00)

CONTINUED ON PAGE 2



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



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-138	G01	1	1	GREENPARK - ZADORRA ESTATES - VILLA 12-2	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:24 2023 Page 2

ID:VquVgowiAqiumFmAwewaWxz71eJ-CGvtFHz WymeLBfIE7HWAtxCnXlZgZ5Zhk06KywE95

SPEC	LOC.	LOC.	LOC.	LOC.	FACE	DIR.	TYPE	TYPE	CON.
JT	19-1-4	-102	-102	-102	FRONT	VERT	TOTAL	—	C1
AA	2-0-12	22	22	22	FRONT	VERT	TOTAL	—	C1
AB	4-0-12	22	22	22	FRONT	VERT	TOTAL	—	C1
AC	8-0-12	22	22	22	FRONT	VERT	TOTAL	—	C1
AD	10-0-12	22	22	22	FRONT	VERT	TOTAL	—	C1
AE	12-0-12	22	22	22	FRONT	VERT	TOTAL	—	C1
AF	15-1-4	22	22	22	FRONT	VERT	TOTAL	—	C1
AG	19-1-4	22	22	22	FRONT	VERT	TOTAL	—	C1
AH	23-1-4	22	22	22	FRONT	VERT	TOTAL	—	C1
AJ	25-1-4	22	22	22	FRONT	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

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

MHP 23039

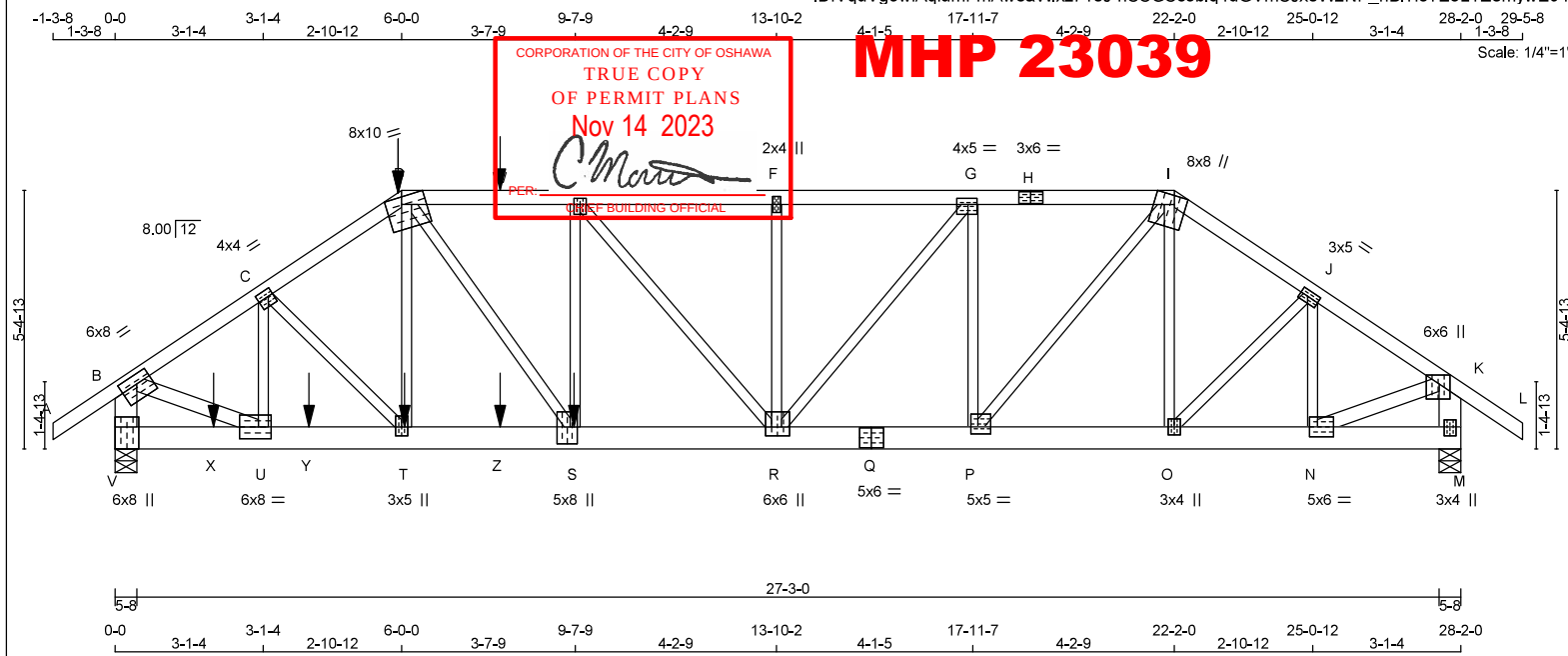
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - ZADORRA ESTATES - VILLA 12-2	DRWG NO.
NE0723-138	G02	1	1	TRUSS DESC.		

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:25 2023 Page 1

ID:VquVgowiAqiumFmAwearMxz71eJ-hSSGScoblq4dGVmSJxeW2NP_nBI?i8?EoLTZemywE94



TOTAL WEIGHT = 148 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - H	2x4	DRY	No.2	SPF
H - I	2x4	DRY	No.2	SPF
I - L	2x4	DRY	No.2	SPF
V - B	2x6	DRY	No.2	SPF
M - K	2x6	DRY	No.2	SPF
V - Q	2x6	DRY	No.2	SPF
Q - M	2x6	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
B - U	2x4	DRY	No.2	SPF
N - K	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-H	MT20	6.0	8.0	2.25	3.75
C	TMVW-H	MT20	4.0	4.0	1.75	1.25
D	TTVW-H-m	MT20	8.0	10.0	Edge	4.00
E	TMVW-H-t	MT20	3.0	4.0	1.50	1.50
F	TMVW-H	MT20	2.0	4.0		
G	TMVW-H	MT20	4.0	5.0	1.50	2.25
H	TS-4	MT20	3.0	6.0		
I	TTVW-H-m	MT20	8.0	8.0	Edge	3.00
J	TMVW-H	MT20	3.0	5.0	1.50	2.00
K	TMVW-H	MT20	6.0	6.0	2.25	2.75
M	BMV1-H	MT20	3.0	4.0	2.25	1.50
N	BMVW-H	MT20	5.0	6.0	2.50	2.00
O	BMVW-H	MT20	3.0	4.0		
P	BMVW-H	MT20	5.0	5.0	1.75	1.75
Q	BS-4	MT20	5.0	6.0		
R	BMVW-H	MT20	6.0	6.0	2.25	1.50
S	BMVW-H	MT20	5.0	8.0	4.25	1.75
T	BMVW-H	MT20	3.0	5.0	2.25	1.50
U	BMVW-H	MT20	6.0	8.0	3.00	3.25
V	BMV1-H	MT20	6.0	8.0	5.00	

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
V	4414	0	4414	0
M	3144	0	3144	0

UNFACTORED REACTIONS

	1ST CASE	MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
V	3080	2257 / 0	0 / 0	0 / 0	0 / 0	823 / 0	0 / 0
M	2193	1614 / 0	0 / 0	0 / 0	0 / 0	579 / 0	0 / 0

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

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 1.67 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LC1)	MAX. HORIZ. LOAD (LC1)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. HORIZ. LOAD (LC1)
FR-TO						FR-TO			
A-B	0 / 45	-119.4	-119.4	0.18 (1)	10.00	U-C	-1336 / 0	0.28 (1)	0.19 (1)
B-C	-4872 / 0	-119.4	-119.4	0.50 (1)	2.73	C-T	0 / 753	0.11 (1)	0.11 (1)
C-D	-5555 / 0	-119.4	-119.4	0.58 (1)	2.42	T-D	-266 / 38	0.72 (1)	0.72 (1)
D-W	-6289 / 0	-119.4	-119.4	0.94 (1)	1.67	S-D	0 / 2896	0.72 (1)	0.72 (1)
W-E	-6289 / 0	-119.4	-119.4	0.94 (1)	1.67	S-E	0 / 105	0.03 (4)	0.03 (4)
E-F	-5698 / 0	-119.4	-119.4	0.86 (1)	2.06	E-R	-919 / 0	0.70 (1)	0.70 (1)
F-G	-5698 / 0	-119.4	-119.4	0.83 (1)	2.09	R-F	-465 / 0	0.20 (1)	0.20 (1)
G-H	-4661 / 0	-119.4	-119.4	0.67 (1)	2.60	R-G	0 / 1639	0.41 (1)	0.41 (1)
H-I	-4661 / 0	-119.4	-119.4	0.67 (1)	2.60	P-G	-1810 / 0	0.76 (1)	0.76 (1)
I-J	-3745 / 0	-119.4	-119.4	0.37 (1)	3.26	P-I	0 / 2444	0.60 (1)	0.60 (1)
J-K	-3353 / 0	-119.4	-119.4	0.33 (1)	3.48	O-I	-152 / 12	0.06 (1)	0.06 (1)
K-L	0 / 45	-119.4	-119.4	0.18 (1)	10.00	O-J	0 / 408	0.10 (1)	0.10 (1)
V-B	-4336 / 0	0.0	0.0	0.31 (1)	5.04	N-J	-928 / 0	0.19 (1)	0.19 (1)
M-K	-3086 / 0	0.0	0.0	0.22 (1)	5.89	B-U	0 / 4273	0.76 (1)	0.76 (1)
V-X	0 / 0	-18.2	-18.2	0.09 (1)	10.00	N-K	0 / 2947	0.52 (1)	0.52 (1)
X-U	0 / 0	-18.2	-18.2	0.09 (1)	10.00				
U-Y	0 / 4069	-18.2	-18.2	0.62 (1)	10.00				
Y-T	0 / 4069	-18.2	-18.2	0.62 (1)	10.00				
T-Z	0 / 4590	-18.2	-18.2	0.73 (1)	10.00				
Z-S	0 / 4590	-18.2	-18.2	0.73 (1)	10.00				
S-R	0 / 6289	-18.2	-18.2	0.95 (1)	10.00				
R-Q	0 / 4661	-18.2	-18.2	0.66 (1)	10.00				
Q-P	0 / 4661	-18.2	-18.2	0.66 (1)	10.00				
P-O	0 / 3088	-18.2	-18.2	0.45 (1)	10.00				
O-N	0 / 2806	-18.2	-18.2	0.43 (1)	10.00				
N-M	0 / 0	-18.2	-18.2	0.07 (1)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	6-0-0	-423	-423	—	BACK	VERT	TOTAL	—	C1
S	9-7-4	-1727	-1727	—	BACK	VERT	TOTAL	—	C1
T	6-0-12	-22	-22	—	BACK	VERT	TOTAL	—	C1
W	8-0-12	-102	-102	—	BACK	VERT	TOTAL	—	C1
X	2-0-12	-21	-21	—	BACK	VERT	TOTAL	—	C1
Y	4-0-12	-22	-22	—	BACK	VERT	TOTAL	—	C1
Z	8-0-12	-22	-22	—	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
BOT CH.	LL	=	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 (0.94")
CALCULATED VERT. DEFL.(LL) = L/999 (0.22")
ALLOWABLE DEFL.(TL) = L/360 (0.94")
CALCULATED VERT. DEFL.(TL) = L/896 (0.38")

CSI: TC=0.94/0.97 (D-E-1), BC=0.95/0.97 (R-S-1),
WB=0.76/0.97 (G-P-1), SSI=0.31/1.00 (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 HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (R) (INPUT = 0.90)
JSI METAL = 0.95 (D) (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.



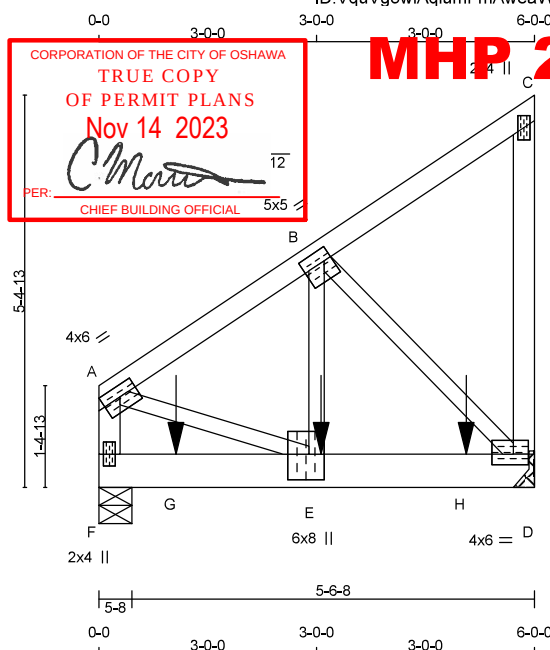
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - ZADORRA ESTATES -	DRWG NO.
NE0723-138	G03	1	1	TRUSS DESC.	VILLA 12-2	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:25 2023 Page 1

ID:VquVgowiAqiumFmAwewaVmxz71eJ-hSSGScobIq4dGVmSjxeVW2NP9DBnbiAKEoLTZemywE94

**MHP 23039**

Scale: 3/8"=1'



TOTAL WEIGHT = 33 lb

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)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW4	MT20	4.0	6.0	1.75	Edge
B	TMVW4	MT20	5.0	5.0	2.00	1.25
C	TMV+p	MT20	2.0	4.0		
D	BMVW14	MT20	4.0	6.0	1.75	2.50
E	BMVW14	MT20	6.0	8.0	4.25	2.50
F	BMV1+p	MT20	2.0	4.0		

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

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
D	2497	0	2497	0	0	MECHANICAL	
F	1708	0	1708	0	0	5-8	2-1

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 2-14.

UNFACTORED REACTIONS

SNOW-ROOFED REACTIONS							
	1ST LCASE	MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
D	1741	1281 / 0	0 / 0	0 / 0	0 / 0	460 / 0	0 / 0
F	1190	882 / 0	0 / 0	0 / 0	0 / 0	309 / 0	0 / 0

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

BRACINGTOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.74 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

C H O R D S					W E B S				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS1 (LC)	MAX. UNBRACED LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)		
FR-TO		FROM	TO		FR-TO				
A-B	-1771 / 0	-119.4	-119.4	0.21 (1)	4.74	E-B	0 / 2052 0.51 (1)		
B-C	-20 / 0	-119.4	-119.4	0.16 (1)	6.25	B-D	-2106 / 0 0.61 (1)		
D-C	-144 / 0	0.0	0.0	0.07 (1)	7.81	A-E	0 / 1570 0.39 (1)		
F-A	-1632 / 0	0.0	0.0	0.18 (1)	6.36				
F-G	0 / 0	-18.2	-18.2	0.06 (1)	10.00				
G-E	0 / 0	-18.2	-18.2	0.06 (1)	10.00				
E-H	0 / 1490	-18.2	-18.2	0.78 (1)	10.00				
H-D	0 / 1490	-18.2	-18.2	0.78 (1)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	3-0-12	-1399	-1399		BACK	VERT	TOTAL		C1
G	1-0-12	-79	-79		BACK	VERT	TOTAL		C1
H	5-0-12	-876	-876		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 (0.20")
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=0.21/0.97 (A-B:1), BC=0.78/0.97 (D-E:1),
WB=0.61/0.97 (B-D:1), SS=0.57/1.00 (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

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (D) (INPUT = 0.90)
JSI METAL= 0.45 (E) (INPUT = 1.00)

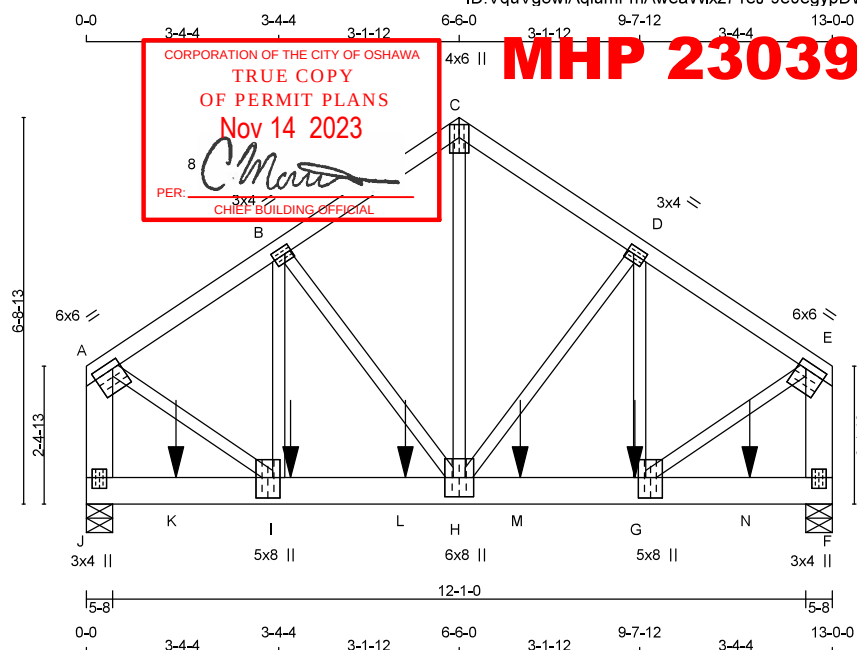


READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - ZADORRA ESTATES - VILLA 12-2	DRWG NO.
NE0723-138	G04	1	2	TRUSS DESC.		

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:26 2023 Page 1



Scale = 1:40.2

TOTAL WEIGHT = 2 X 73 = 146 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
J - A	2x6	DRY	No.2	SPF
F - E	2x6	DRY	No.2	SPF
J - F	2x6	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C	1 12	TOP
C-E	1 12	TOP
J-A	2 12	TOP
F-E	2 12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
J-F	2 12	SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	1 6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMWW4	MT20	6.0	6.0	1.50	1.75
B	TMWW4	MT20	3.0	4.0	1.50	1.50
C	TTW+p	MT20	4.0	6.0	2.75	2.00

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
J	6415	0	6415	0
F	6486	0	6486	0

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
J	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
J	4477	3271 / 0	0 / 0	0 / 0	1206 / 0	0 / 0
F	4528	3308 / 0	0 / 0	0 / 0	1220 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.10 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.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO						FR-TO			
A-B	-5105 / 0	-119.4	-119.4	0.20 (1)	4.10	H-C	0 / 4478	0.55 (1)	
B-C	-4344 / 0	-119.4	-119.4	0.15 (1)	4.44	H-D	-1106 / 0	0.26 (1)	
C-D	-4344 / 0	-119.4	-119.4	0.15 (1)	4.44	G-D	0 / 892	0.11 (1)	
D-E	-5111 / 0	-119.4	-119.4	0.20 (1)	4.10	B-H	-1097 / 0	0.25 (1)	
J-A	-5551 / 0	0.0	0.0	0.24 (1)	6.16	I-B	0 / 882	0.11 (1)	
F-E	-5557 / 0	0.0	0.0	0.24 (1)	6.15	A-I	0 / 4955	0.61 (1)	
J-K	0 / 0	-18.2	-18.2	0.49 (1)	10.00	G-E	0 / 4961	0.61 (1)	
K-I	0 / 0	-18.2	-18.2	0.49 (1)	10.00				
I-L	0 / 4258	-18.2	-18.2	0.54 (1)	10.00				
L-H	0 / 4258	-18.2	-18.2	0.54 (1)	10.00				
H-M	0 / 4263	-18.2	-18.2	0.54 (1)	10.00				
M-G	0 / 4263	-18.2	-18.2	0.54 (1)	10.00				
G-N	0 / 0	-18.2	-18.2	0.48 (1)	10.00				
N-F	0 / 0	-18.2	-18.2	0.48 (1)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	9-6-12	-1292	-1292	—	BACK	VERT	TOTAL	—	C1
I	3-6-12	-1292	-1292	—	BACK	VERT	TOTAL	—	C1
K	1-6-12	-1292	-1292	—	BACK	VERT	TOTAL	—	C1
L	5-6-12	-1292	-1292	—	BACK	VERT	TOTAL	—	C1
M	7-6-12	-1292	-1292	—	BACK	VERT	TOTAL	—	C1
N	11-6-12	-1292	-1292	—	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, 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 (0.43")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")CSI: TC=0.24/0.97 (E-F:1), BC=0.54/0.97 (G-H:1),
WB=0.61/0.97 (E-G:1), SSI=0.46/1.00 (H-I:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00
SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (E) (INPUT = 0.90)
JSI METAL= 0.77 (I) (INPUT = 1.00)

CONTINUED ON PAGE 2

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



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-138	G04	1	2	GREENPARK - ZADORRA ESTATES - VILLA 12-2	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:26 2023 Page 2

ID:VquVgowiAqiumFmAweaWmxz71eJ-9e0egypDW7CUtffLete9lbyKWbBaRdXO1?D6ADywe93

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
D	TMWW-t	MT20	3.0	4.0	1.50	1.50
E	TMWW-t	MT20	6.0	6.0	1.50	1.75
F	BMV1+p	MT20	3.0	4.0	2.25	1.50
G	BMWW-t	MT20	5.0	8.0	4.25	1.50
H	BMWW-t	MT20	6.0	8.0		
I	BMWW-t	MT20	5.0	8.0	4.25	1.50
J	BMV1+p	MT20	3.0	4.0	2.25	1.50

CORPORATION OF THE CITY OF OSHAWA

TRUE COPY
OF PERMIT PLANS

Nov 14 2023

PER:

CHIEF BUILDING OFFICIAL

MHP 23039

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.

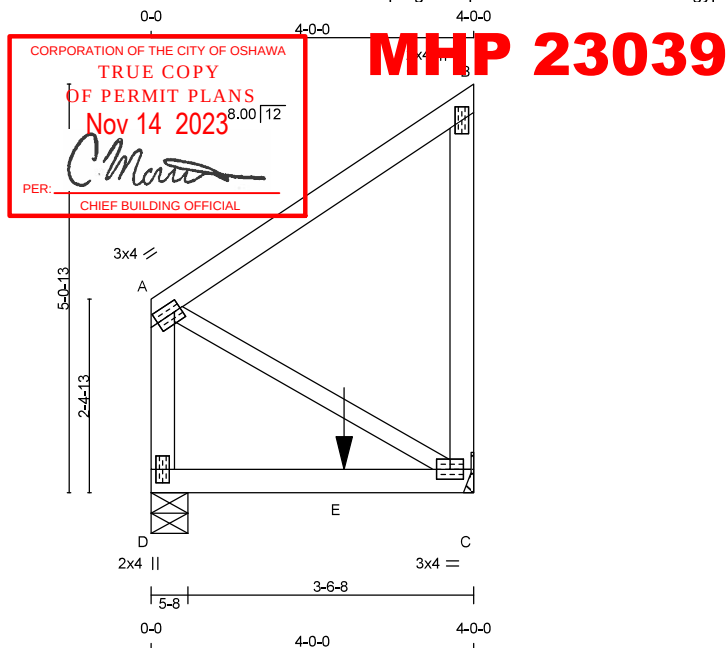


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-138	G05	1	1	GREENPARK - ZADORRA ESTATES - VILLA 12-2	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:26 2023 Page 1

ID:VquVgwiAqumFmAwearWxz71eJ-9e0egypDW7CUtflLete9lbbylfb8FRm7O1?D6ADywE93

Scale = 1:28.6



TOTAL WEIGHT = 21 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - B	2x4	DRY	No.2	SPF
C - B	2x4	DRY	No.2	SPF
D - A	2x4	DRY	No.2	SPF
D - C	2x4	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
A	TMVW4	MT20	3.0	4.0	1.50	1.00
B	TMV+p	MT20	2.0	4.0		
C	BMVW1+t	MT20	3.0	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	732	0	732	0	0	MECHANICAL	
D	581	0	581	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	1ST LOASE	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
C	510	376 / 0	0 / 0	0 / 0	0 / 0	135 / 0	0 / 0	0 / 0
D	405	297 / 0	0 / 0	0 / 0	0 / 0	108 / 0	0 / 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. VERT. LOAD (LBS)	MAX. HORZ. LOAD (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. HORZ. LOAD (LBS)
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	0.10 (1)			
D-A	-239 / 0	0.0	0.0	0.03 (1)			
D-E	0 / 0	-18.2	-18.2	0.76 (1)			
E-C	0 / 0	-18.2	-18.2	0.76 (1)			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	2-4-12	-531	-531		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 LOADALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/536 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/360 (0.16")CSI: TC=0.36/0.97 (A-B-1) , BC=0.76/0.97 (C-D-1) ,
WB=0.00/0.97 (A-C-1) , SS=0.42/1.00 (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

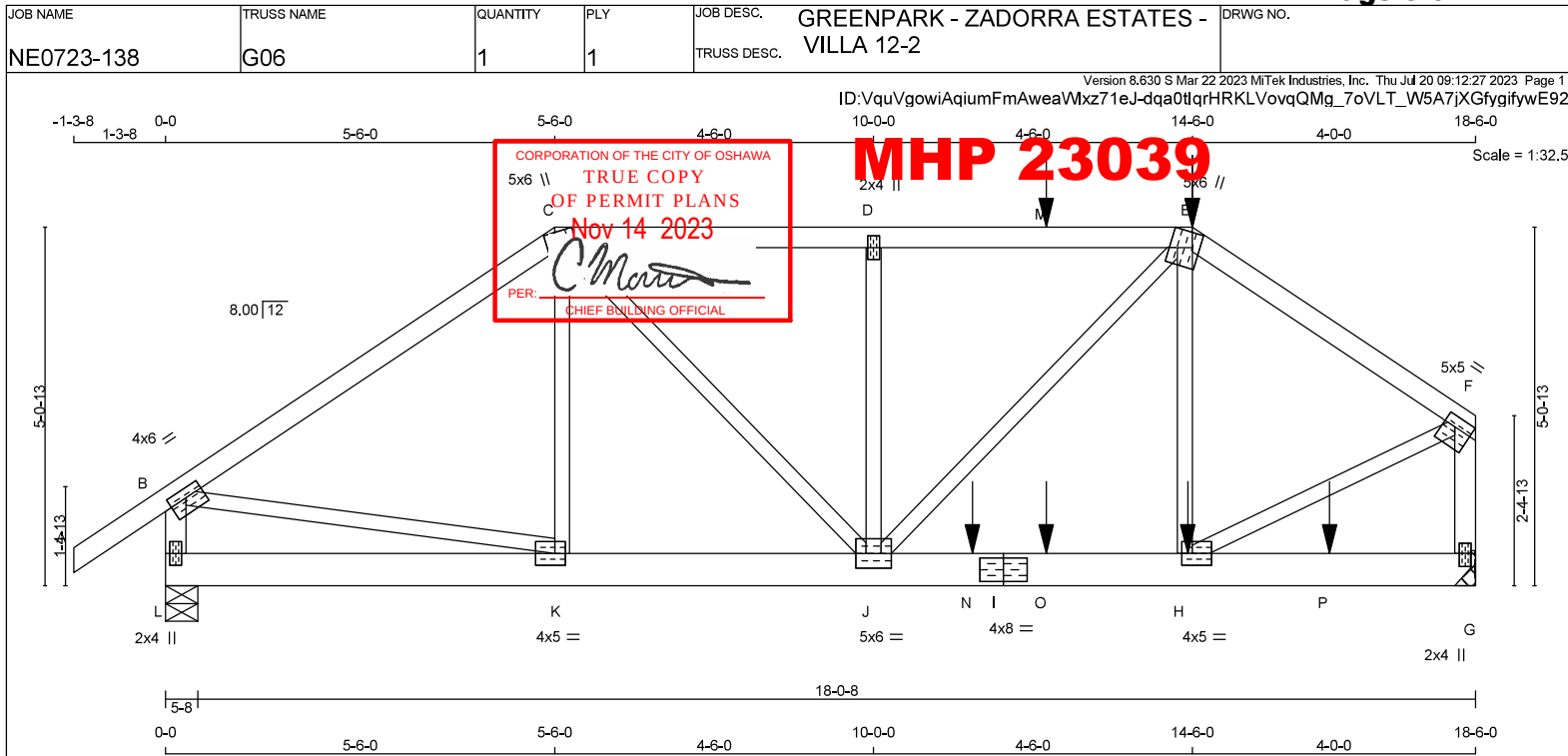
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.23 (C) (INPUT = 0.90)
JSI METAL= 0.12 (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 = 90 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
L - B	2x4	DRY No.2
G - F	2x4	DRY No.2
L - I	2x6	DRY No.2
I - G	2x6	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	6.0	1.50	3.00
C	TMVW+m	MT20	5.0	6.0	Edge	3.75
D	TMVW+w	MT20	2.0	4.0		
E	TMVW+m	MT20	5.0	6.0	Edge	3.75
F	TMVW4	MT20	5.0	5.0	1.75	Edge
G	BMV1+p	MT20	2.0	4.0	2.25	1.00
H	BMVW4	MT20	4.0	5.0	2.00	1.75
I	BS-t	MT20	4.0	8.0		
J	BMVW4	MT20	5.0	6.0		
K	BMVW4	MT20	4.0	5.0	2.00	1.75
L	BMV1+p	MT20	2.0	4.0		

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

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
L	1807	0	1807	0
G	2026	0	2026	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT G. MINIMUM BEARING LENGTH AT JOINT G = 3-1.

UNFACTORED REACTIONS

1ST LCASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED
L	1259 933 / 0
G	1414 1034 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.59 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. UNBRAC LENGTH (LC)	WEBS MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO					
A-B	0 / 45	-119.4	-119.4 0.18 (1)	10.00	K-C -223 / 32 0.08 (1)
B-C	-1791 / 0	-119.4	-119.4 0.87 (1)	3.59	C-J 0 / 945 0.23 (1)
C-D	-2138 / 0	-119.4	-119.4 0.56 (1)	3.87	J-D -684 / 0 0.25 (1)
D-M	-2138 / 0	-119.4	-119.4 0.56 (1)	3.87	E - 0 / 863 0.21 (1)
M-E	-2138 / 0	-119.4	-119.4 0.56 (1)	3.87	H-E -368 / 1 0.14 (1)
E-F	-1864 / 0	-119.4	-119.4 0.44 (1)	4.32	B-K 0 / 1512 0.37 (1)
L-B	-1753 / 0	0.0	0.0 0.20 (1)	6.17	H-F 0 / 1722 0.43 (1)
G-F	-2030 / 0	0.0	0.0 0.27 (1)	5.80	
L-K	0 / 0	-18.2	-18.2 0.07 (4)	10.00	
K-J	0 / 1483	-18.2	-18.2 0.34 (1)	10.00	
J-N	0 / 1540	-18.2	-18.2 0.59 (1)	10.00	
N-I	0 / 1540	-18.2	-18.2 0.59 (1)	10.00	
I-O	0 / 1540	-18.2	-18.2 0.59 (1)	10.00	
O-H	0 / 1540	-18.2	-18.2 0.59 (1)	10.00	
H-P	0 / 0	-18.2	-18.2 0.15 (1)	10.00	
P-G	0 / 0	-18.2	-18.2 0.15 (1)	10.00	

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	14-6-0	-209	-209	—	FRONT	VERT	TOTAL	—	C1
H	14-5-4	-12	-12	—	FRONT	VERT	TOTAL	—	C1
M	12-5-4	-41	-41	—	FRONT	VERT	TOTAL	—	C1
N	11-4-12	-496	-496	—	FRONT	VERT	TOTAL	—	C1
O	12-5-4	-12	-12	—	FRONT	VERT	TOTAL	—	C1
P	16-5-4	-12	-12	—	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, 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 (0.62")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (0.62")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.87/0.97 (B-C-1), BC=0.59/0.97 (H-J-1), WB=0.43/0.97 (F-H-1), SSI=0.35/1.00 (H-J-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

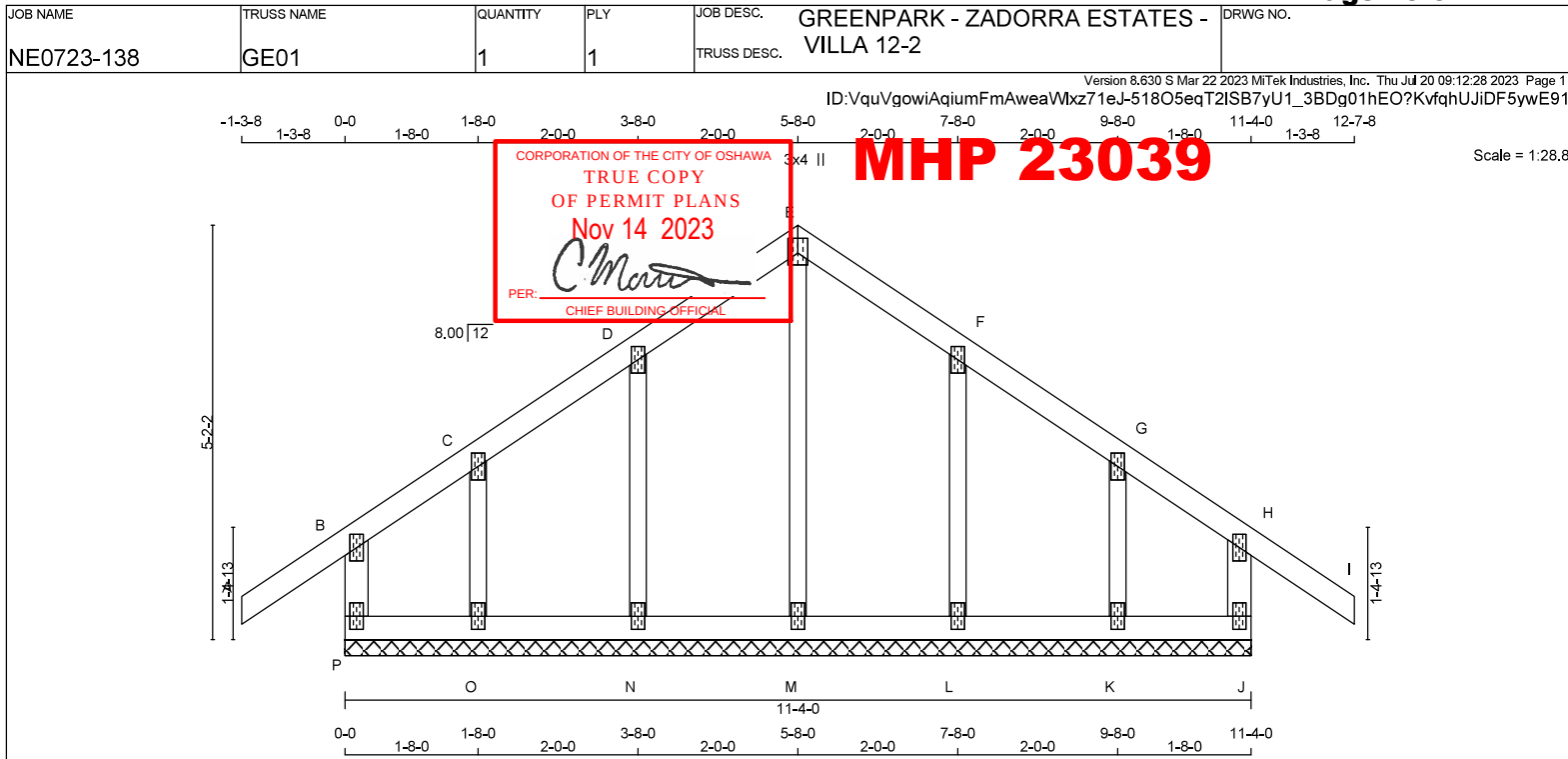
PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (L) (INPUT = 0.90)
JSI METAL = 0.98 (I) (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
P - B	2x4	DRY	No.2
A - E	2x4	DRY	No.2
E - I	2x4	DRY	No.2
J - H	2x4	DRY	No.2
P - J	2x4	DRY	No.2

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

GABLE STUDS SPACED AT 24-0 OC.

PLATES (table is in inches)

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

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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH (LC)	FACTORED MAX (LC)
FR-TO		FROM TO		FR-TO			
P-B	-269 / 0	0.0 0.0 0.06 (1)	7.81	M-E	-298 / 0	0.12 (1)	
A-B	0 / 45	-119.4 -119.4 0.16 (1)	10.00	N-D	-257 / 0	0.06 (1)	
B-C	0 / 21	-119.4 -119.4 0.10 (1)	10.00	O-C	-166 / 0	0.03 (1)	
C-D	0 / 53	-119.4 -119.4 0.07 (1)	10.00	L-F	-257 / 0	0.06 (1)	
D-E	0 / 50	-119.4 -119.4 0.07 (1)	10.00	K-G	-166 / 0	0.03 (1)	
E-F	0 / 50	-119.4 -119.4 0.07 (1)	10.00				
F-G	0 / 53	-119.4 -119.4 0.07 (1)	10.00				
G-H	0 / 21	-119.4 -119.4 0.10 (1)	10.00				
H-I	0 / 45	-119.4 -119.4 0.16 (1)	10.00				
J-H	-269 / 0	0.0 0.0 0.06 (1)	7.81				
P-O	-32 / 0	-18.2 -18.2 0.01 (4)	6.25				
O-N	-38 / 0	-18.2 -18.2 0.01 (4)	6.25				
N-M	-44 / 0	-18.2 -18.2 0.01 (4)	6.25				
M-L	-44 / 0	-18.2 -18.2 0.01 (4)	6.25				
L-K	-38 / 0	-18.2 -18.2 0.01 (4)	6.25				
K-J	-32 / 0	-18.2 -18.2 0.01 (4)	6.25				

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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

CSI: TC=0.16/0.97 (A-B:1), BC=0.01/0.97 (M-N:4),
WB=0.12/0.97 (E-M:1), SSI=0.11/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

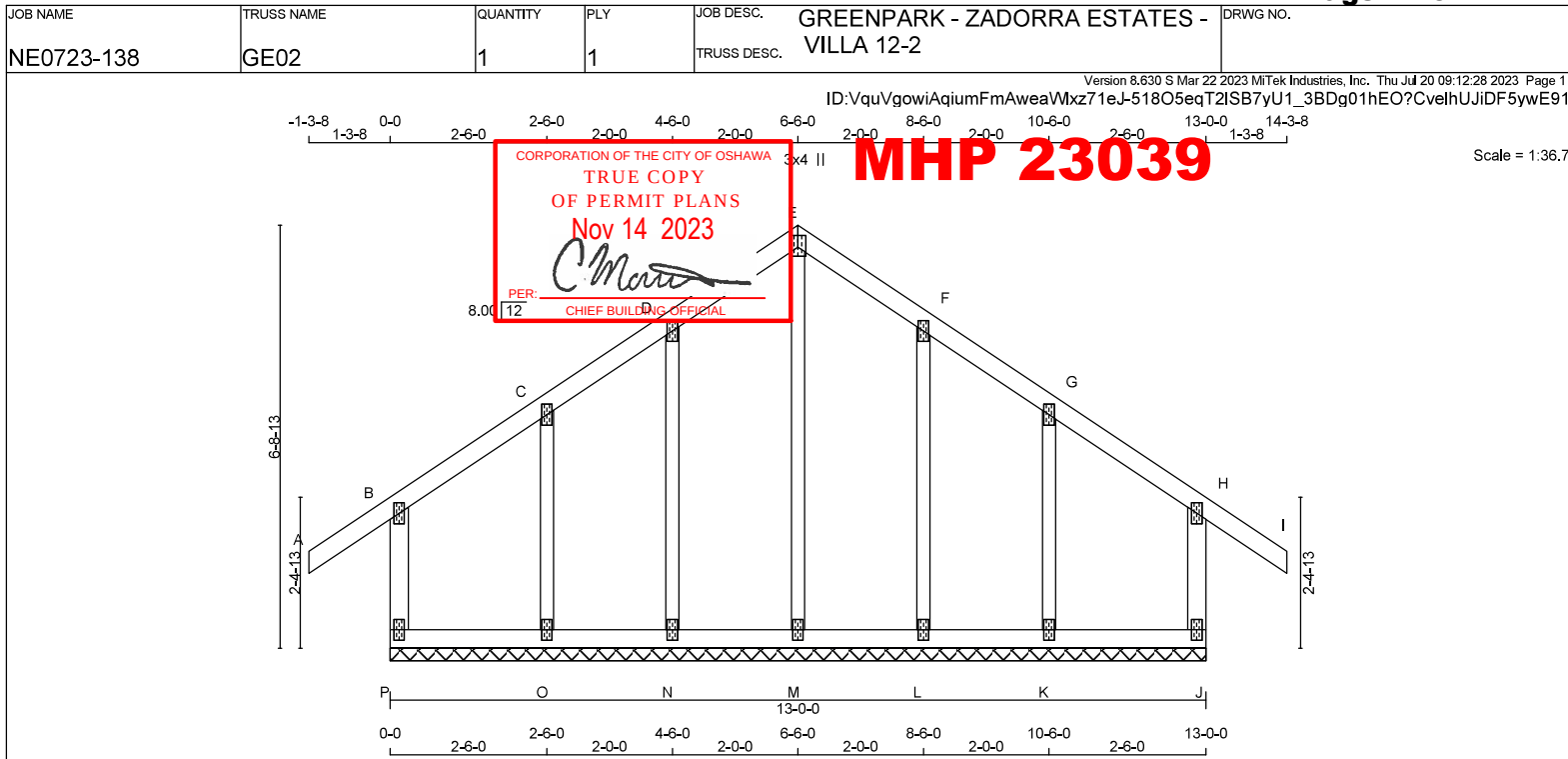
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (E) (INPUT = 0.90)
JSI METAL= 0.13 (D) (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 = 60 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
P - B	2x4	DRY	No.2
A - E	2x4	DRY	No.2
E - I	2x4	DRY	No.2
J - H	2x4	DRY	No.2
P - J	2x4	DRY	No.2

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

GABLE STUDS SPACED AT 24-0 OC.

PLATES (table is in inches)

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

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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)
FR-TO		FROM TO			FR-TO		
P-B	-322 / 0	0.0 0.0 0.02 (1)	7.81	M-E	-250 / 0	0.18 (1)	
A-B	0 / 45	-119.4 -119.4 0.16 (1)	10.00	N-D	-237 / 0	0.10 (1)	
B-C	-15 / 0	-119.4 -119.4 0.09 (1)	6.25	O-C	-256 / 0	0.06 (1)	
C-D	-6 / 0	-119.4 -119.4 0.06 (1)	10.00	L-F	-237 / 0	0.10 (1)	
D-E	-4 / 0	-119.4 -119.4 0.06 (1)	10.00	K-G	-256 / 0	0.06 (1)	
E-F	-4 / 0	-119.4 -119.4 0.06 (1)	10.00				
F-G	-6 / 0	-119.4 -119.4 0.06 (1)	10.00				
G-H	-15 / 0	-119.4 -119.4 0.09 (1)	6.25				
H-I	0 / 45	-119.4 -119.4 0.16 (1)	10.00				
J-H	-322 / 0	0.0 0.0 0.02 (1)	7.81				
P-O	0 / 9	-18.2 -18.2 0.02 (4)	10.00				
O-N	0 / 4	-18.2 -18.2 0.02 (4)	10.00				
N-M	0 / 4	-18.2 -18.2 0.02 (4)	10.00				
M-L	0 / 4	-18.2 -18.2 0.02 (4)	10.00				
L-K	0 / 4	-18.2 -18.2 0.02 (4)	10.00				
K-J	0 / 9	-18.2 -18.2 0.02 (4)	10.00				

DESIGN CRITERIA**SPECIFIED LOADS:**

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

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

CSI: TC=0.16/0.97 (A-B:1), BC=0.02/0.97 (J-K:4),
WB=0.18/0.97 (E-M:1), SSI=0.11/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP (DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
	MAX MIN	MAX MIN	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 (H) (INPUT = 0.90)
JSI METAL= 0.17 (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.

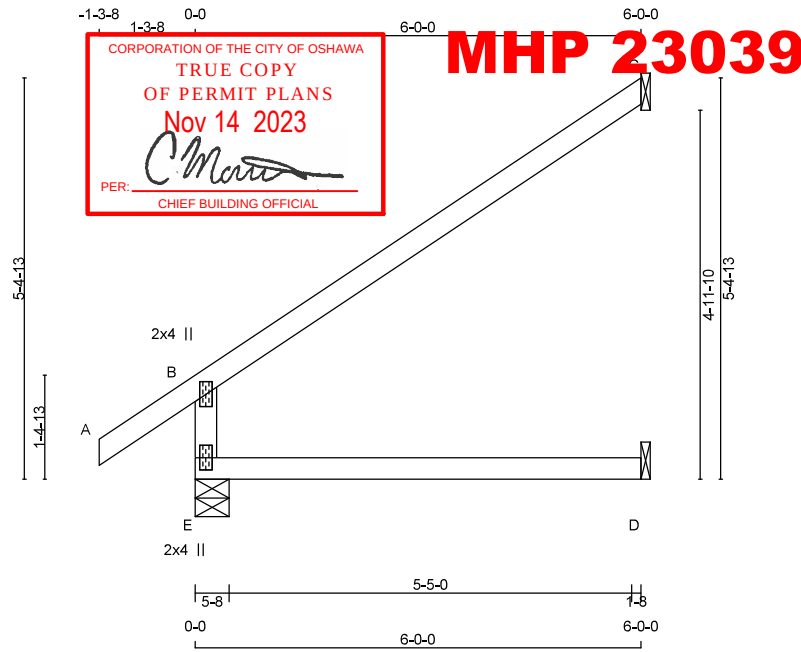


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - ZADORRA ESTATES - VILLA 12-2	DRWG NO.
NE0723-138	J01	11	1	TRUSS DESC.		

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:29 2023 Page 1

ID:VquVgowiAqumFmAwearMxz71eJ-ZDiml_r6p2a2k63DYnjSDDaj0oJge7sqjzRmnXywE90

Scale = 1:31.0



TOTAL WEIGHT = 11 X 18 = 200 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	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
E	675	0	675	0	0	5-8	1-8
C	269	0	269	0	0	1-8	1-8
D	46	0	51	0	0	1-8	1-8

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

UNFACTORED REACTIONS

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

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

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

DESIGN CRITERIA**SPECIFIED LOADS:**

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

SPACING = 24.0 IN./C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

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

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.38 (B) (INPUT = 0.90)

JSI METAL = 0.31 (B) (INPUT = 1.00)



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.

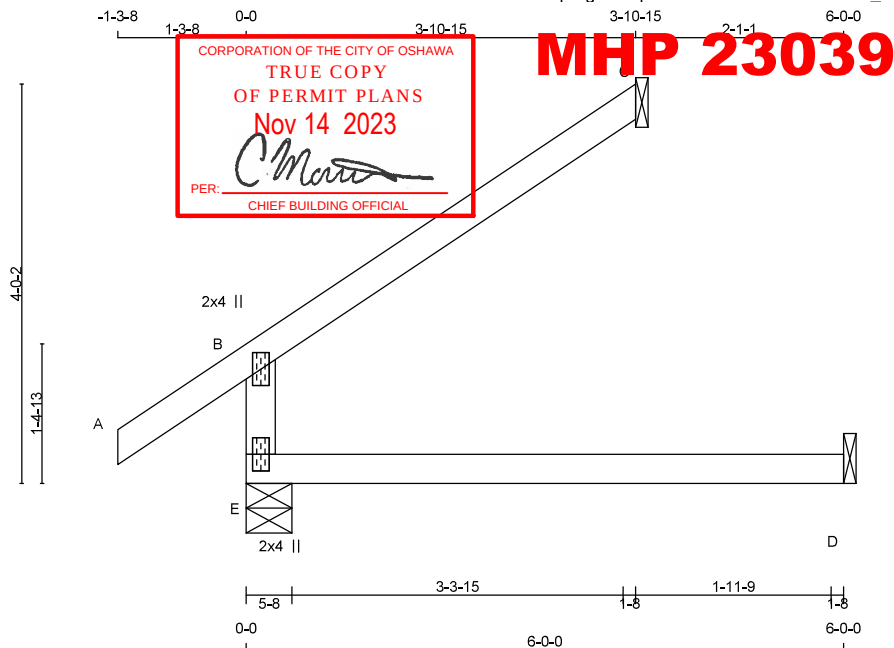


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - ZADORRA ESTATES -	DRWG NO.
NE0723-138	J02	3	1	TRUSS DESC.	VILLA 12-2	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:29 2023 Page 1

ID:VquVgowiAqiumFmAweaVmz71eJ-ZDiml_r6p2a2k63DYnjSDDaqeoJge7sqjzRmnXywE90

Scale = 1:23.1



TOTAL WEIGHT = 3 X 15 = 46 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	519	0	519	0	5-8	1-8
C	175	0	175	0	1-8	1-8
D	46	0	51	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	362	266 / 0	0 / 0	0 / 0	0 / 0	97 / 0	0 / 0
C	120	102 / 0	0 / 0	0 / 0	0 / 0	18 / 0	0 / 0
D	37	0 / 0	0 / 0	0 / 0	0 / 0	37 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E, 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: (4)

MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)
FR-TO				FR-TO			
E-B	-456 / 0	0.0	0.0	0.13 (4)	7.81		
A-B	0 / 45	-119.4	-119.4	0.16 (1)	10.00		
B-C	-32 / 0	-119.4	-119.4	0.31 (1)	6.25		
E-D	0 / 0	-18.2	-18.2	0.14 (4)	10.00		

DESIGN CRITERIA**SPECIFIED LOADS:**

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)
EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOADALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")CSI: TC=0.31/0.97 (B-C:1) , BC=0.14/0.97 (D-E:4) ,
WB=0.00/0.97 (n/a:0) , SSH=0.19/1.00 (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= 0.28 (B) (INPUT = 0.90)
JSI METAL = 0.23 (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.

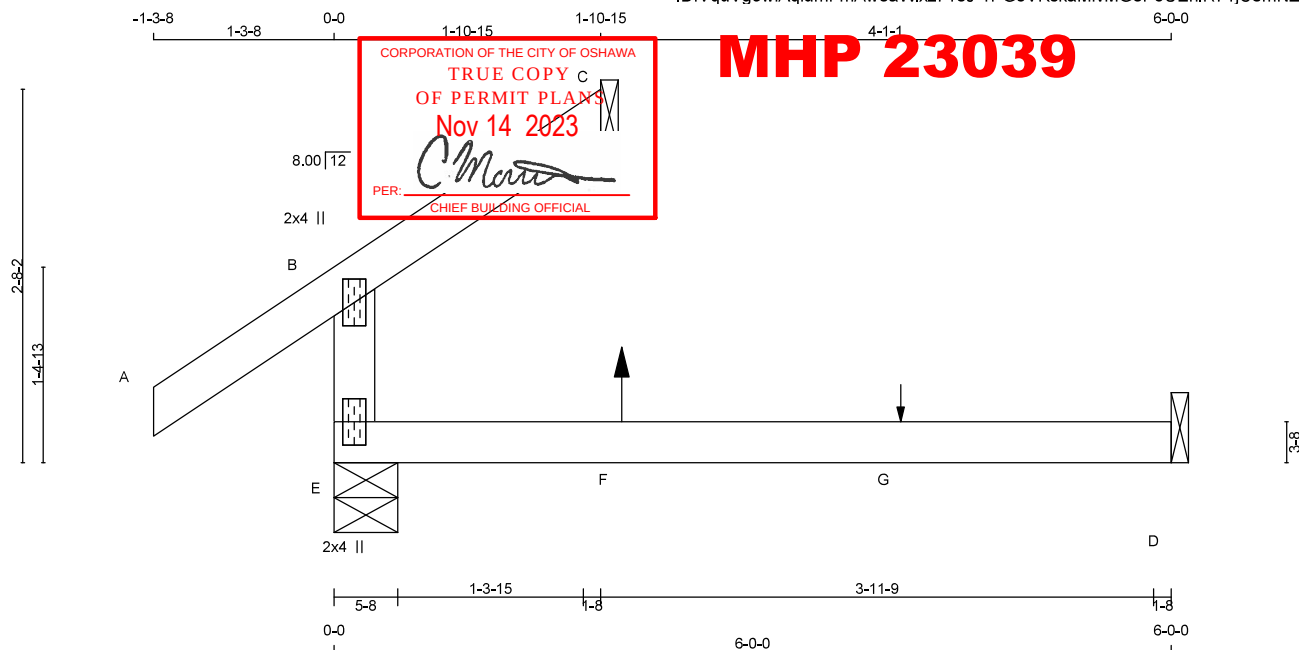


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - ZADORRA ESTATES -	DRWG NO.
NE0723-138	J03	3	1	TRUSS DESC.	VILLA 12-2	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:30 2023 Page 1

ID:VquVgowiAqumFmAwewaWmx71eJ-1PG8VKskaMivMGeP6UEhIR71jCemNZ6_ydBJKJ_ywE9?

Scale = 1:16.5



TOTAL WEIGHT = 3 X 13 = 38 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	369	0	369	0	0	5-8	1-8
C	81	0	81	0	0	1-8	1-8
D	44	0	53	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	257	192 / 0	0 / 0	0 / 0	0 / 0	65 / 0	0 / 0
C	58	34 / 0	0 / 0	0 / 0	0 / 0	24 / 0	0 / 0
D	35	0 / -2	0 / 0	0 / 0	0 / 0	38 / 0	0 / 0

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO					FR-TO		
E-B	-311 / 0	0.0	0.0	0.10 (4)	7.81		
A-B	0 / 45	-119.4	-119.4	0.16 (1)	10.00		
B-C	-18 / 10	-119.4	-119.4	0.09 (1)	6.25		
E-F	0 / 0	-18.2	-18.2	0.14 (4)	10.00		
F-G	0 / 0	-18.2	-18.2	0.14 (4)	10.00		
G-D	0 / 0	-18.2	-18.2	0.14 (4)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	2-0-12	5	1	5	BACK	VERT	TOTAL	—	C1
G	4-0-12	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

*** 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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL) = $L/360$ (0.20")CALCULATED VERT. DEFL.(LL) = $L/999$ (0.01")ALLOWABLE DEFL.(TL) = $L/360$ (0.20")CALCULATED VERT. DEFL.(TL) = $L/999$ (0.04")

CSI: TC=0.16/0.97 (A-B:1), BC=0.14/0.97 (D-E:4),

WB=0.00/0.97 (n/a:0), SSI=0.11/1.00 (A-B:1)

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

SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (B) (INPUT = 0.90)

JSI METAL= 0.16 (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.

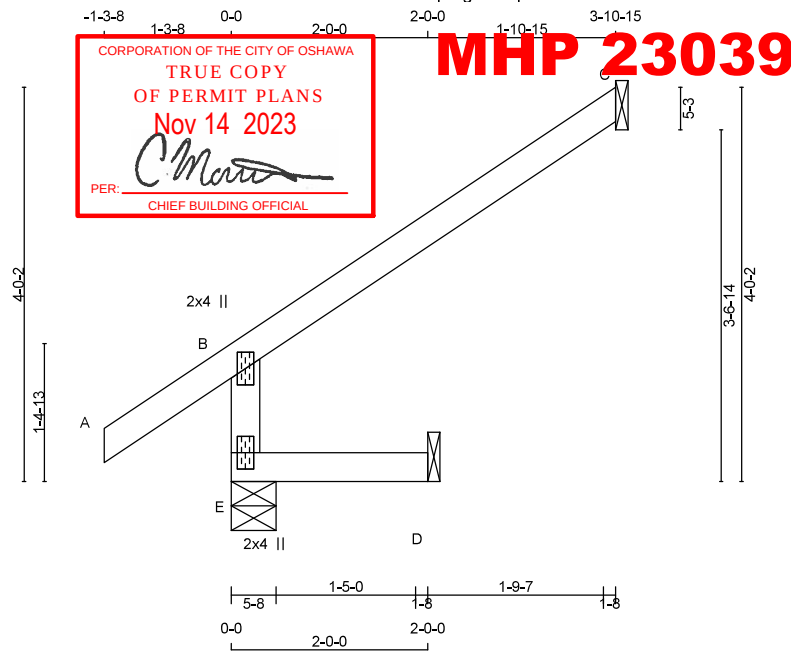


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - ZADORRA ESTATES - VILLA 12-2	DRWG NO.
NE0723-138	J04	3	1	TRUSS DESC.		

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:30 2023 Page 1

ID:VquVgowiAqiumFmAweaVMxz71eJ-1PG8VKsKaMivMGeP6UEHIR7?NCgINZ6_ydBKJ_ywE9?

Scale = 1:23.4



TOTAL WEIGHT = 3 X 11 = 32 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	476	0	476	0	5-8	1-8
C	175	0	175	0	1-8	1-8
D	17	0	18	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	327	266 / 0	0 / 0	0 / 0	0 / 0	62 / 0	0 / 0
C	120	102 / 0	0 / 0	0 / 0	0 / 0	18 / 0	0 / 0
D	13	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0

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

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.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)
FR-TO				FR-TO		
E-B	-456 / 0	0.0	0.01 (4)	7.81		
A-B	0 / 45	-119.4	-119.4	0.16 (1)	10.00	
B-C	-32 / 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=0.19/1.00 (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)	(PSI)	(PL)	(PL)
MT20	650	371	1747
		788	1987
			1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.28 (B) (INPUT = 0.90)
JSI METAL= 0.23 (B) (INPUT = 1.00)

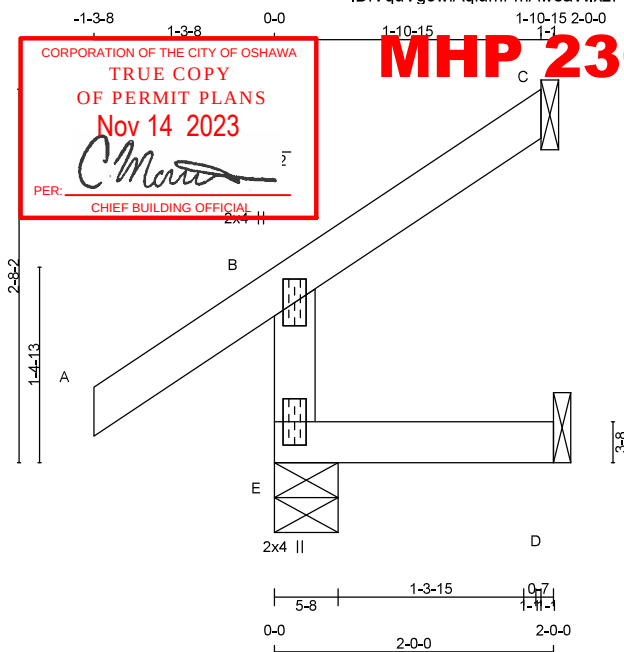
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-138	J05	3	1	GREENPARK - ZADORRA ESTATES - VILLA 12-2	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:31 2023 Page 1

ID: VquVgowiAqiumFmAwaaWmxz71eJ-VcqXjgtMLgqm_QDbfCwIefCTc0W60M7AHwtsQywE9



Scale = 1:16.5

TOTAL WEIGHT = 3 X 8 = 24 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.

DESCR.
SPF
SPF
SPF**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 DOWN	MAXIMUM FACTORED GROSS REACTION HORZ	INPUT UPLIFT	REQD BRG IN-SX	REQD BRG IN-SX
E	355	0	355	0	0	5-8	1-8
C	66	0	66	0	-30	1-8	1-8
D	8	0	18	0	-4	1-8	1-8

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

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS. FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT D FOR 150 LBS. FACTORED UPLIFT**UNFACTORED REACTIONS**

JT	1ST LCASE COMBINED	MAX./MIN. SNOW	MIN. LIVE	MAX. PERM. LIVE	WIND	DEAD	SOIL
E	245	196 / 0	0 / 0	0 / 0	0 / 0	48 / 0	0 / 0
C	45	38 / -24	0 / 0	0 / 0	0 / 0	8 / 0	0 / 0
D	7	0 / -10	0 / 0	0 / 0	0 / 0	13 / 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: (5)

CHORDS			WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1	MAX. (PLF)	MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB. FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM	TO				
E-B	-326 / 0	0.0	0.0	0.05 (5)	7.81		
A-B	0 / 45	-119.4	-119.4	0.16 (1)	10.00		
B-C	-27 / 0	-119.4	-119.4	0.12 (1)	6.25		
E-D	0 / 0	-18.2	-18.2	0.05 (5)	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=0.05/0.97 (D-E:5) ,
WB=0.00/0.97 (n/a:0) , SSI=0.11/1.00 (A-B:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10
SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.20 (B) (INPUT = 0.90)
JSI METAL= 0.17 (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.

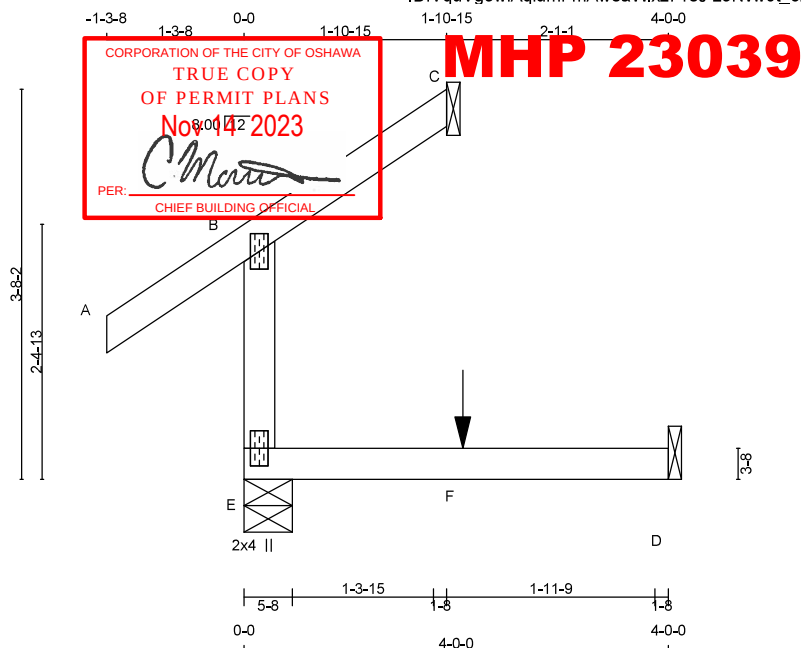


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - ZADORRA ESTATES -	DRWG NO.
NE0723-138	J07	1	1	TRUSS DESC.	VILLA 12-2	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:32 2023 Page 1

ID:VquVgowiAqiumFmAweaWmxz71eJ-zoNvw0t_6zzdbao0DvG9qsCND?L0rTcGPxgRNsywE8z

Scale = 1:21.7



TOTAL WEIGHT = 11 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	369	0	369	0	0	5-8	1-8
C	68	0	68	0	0	1-8	1-8
D	33	0	37	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	256	196 / 0	0 / 0	0 / 0	0 / 0	60 / 0	0 / 0
C	47	36 / 0	0 / 0	0 / 0	0 / 0	11 / 0	0 / 0
D	27	0 / 0	0 / 0	0 / 0	0 / 0	27 / 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: (4)

MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRACED LENGTH FR-TO	MEMB.	MAX. FORCE (LBS)	MAX. FACTORED VERT. LOAD (LBS)
FR-TO		FROM	TO				
E-B	-324 / 0	0.0	0.0	0.03 (1)	7.81		
A-B	0 / 45	-119.4	-119.4	0.16 (1)	10.00		
B-C	-26 / 0	-119.4	-119.4	0.12 (1)	6.25		
E-F	0 / 0	-18.2	-18.2	0.07 (4)	10.00		
F-D	0 / 0	-18.2	-18.2	0.07 (4)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	2-0-12	-3	-3	-	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, 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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.16/0.97 (A-B-1), BC=0.07/0.97 (D-E-4),
WB=0.00/0.97 (n/a:0), SSI=0.11/1.00 (A-B-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.20 (B) (INPUT = 0.90)
JSI METAL = 0.17 (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.

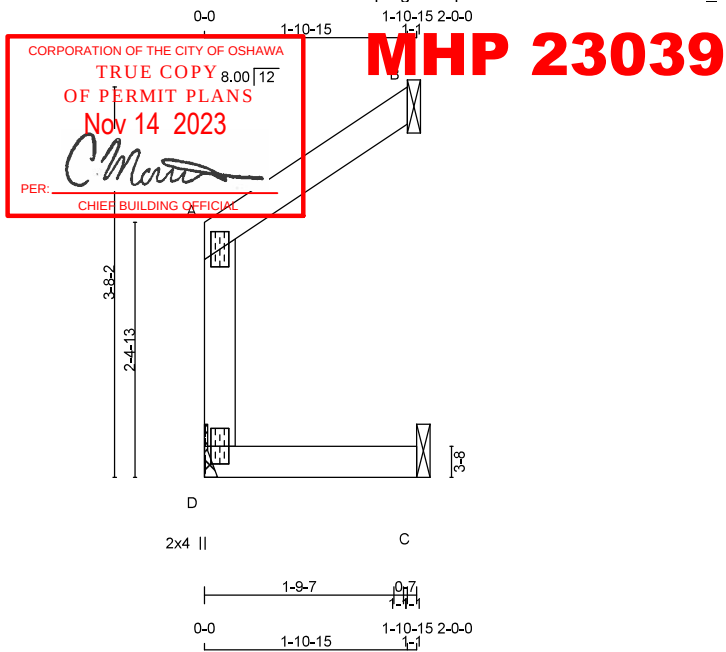


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-138	J08	1	1	GREENPARK - ZADORRA ESTATES - VILLA 12-2	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:32 2023 Page 1

ID:VquVgowiAqumFmAweaVMxz71eJ-zoNww0t_6zzdbaoDvG9qsCPq?M9rTcGPxgRNsywE8z

Scale = 1:21.7



TOTAL WEIGHT = 7 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**DESIGNER****BEARINGS**

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
D	133	0	133	0
B	109	0	109	0
C	23	0	23	0

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

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	MAX./MIN. LIVE	PERM.LIVE	WIND	DEAD	SOIL
D	93	67 / 0	0 / 0	0 / 0	0 / 0	26 / 0	0 / 0
B	75	63 / 0	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0
C	18	3 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0

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

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

LOADING

TOTAL LOAD CASES: (4)

	CHORDS	FACTORED	VERT. LOAD LC1	MAX	MAX.	MEMB.	MAX.	FACTORED
	MEMB.	FORCE (LBS)	FROM	TO	FR-TO	MEMB.	FORCE (LBS)	MAX
D-A	-119 / 0	0.0	0.0	0.01 (1)	7.81			
A-B	-3 / 0	-119.4	-119.4	0.06 (1)	10.00			
D-C	0 / 0	-18.2	-18.2	0.02 (4)	10.00			

DESIGN CRITERIA**SPECIFIED LOADS:**

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

SPACING = 24.0 IN./C

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=0.06/0.97 (A-B:1) , BC=0.02/0.97 (C-D:4) ,
WB=0.00/0.97 (n/a:0) , SSI=0.08/1.00 (A-B:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10
SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.07 (A) (INPUT = 0.90)
JSI METAL = 0.06 (A) (INPUT = 1.00)

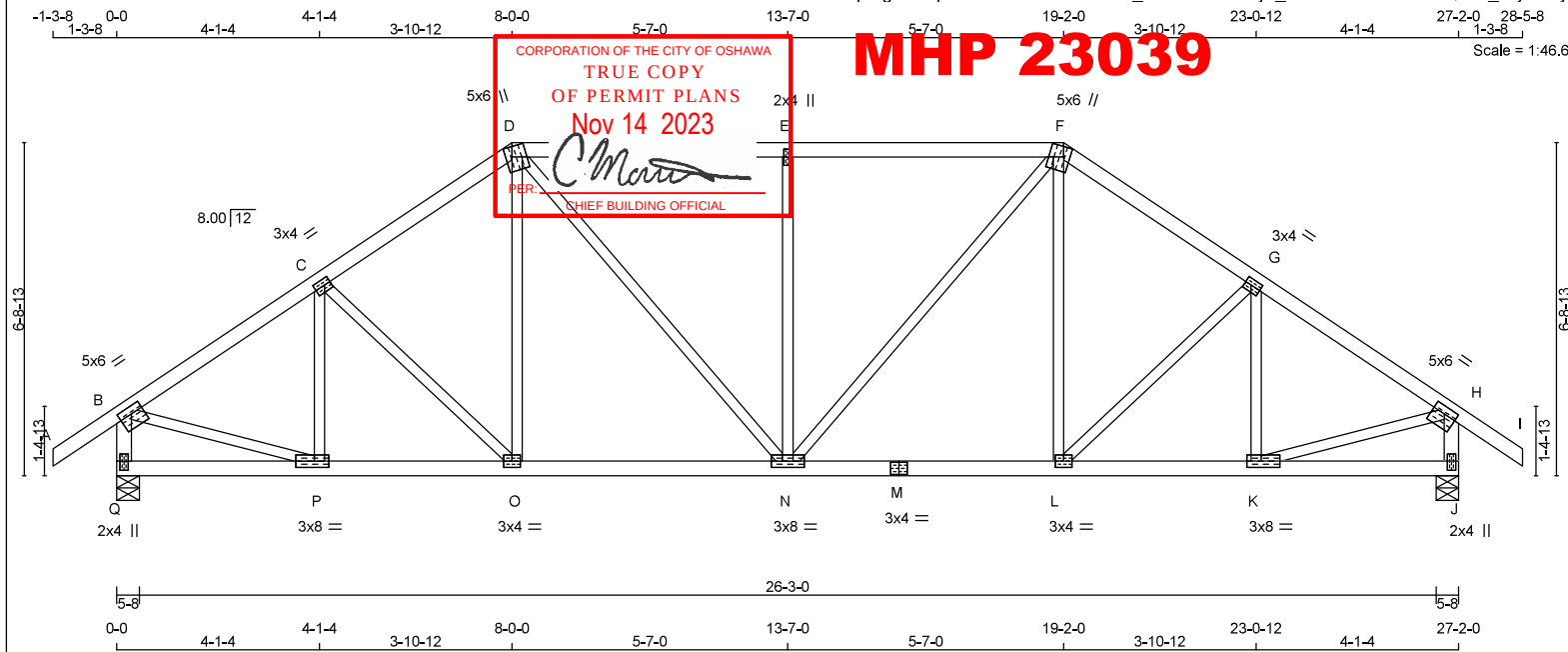
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - ZADORRA ESTATES -	DRWG NO.
NE0723-138	T01	1	1	TRUSS DESC.	VILLA 12-2	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:33 2023 Page 1

ID:VquVgowiAqiumFmAweaWxz71eJ-S_xH8LucsH5UDjN_ncnON3IS7PdUanDQebP_vJywE8y



TOTAL WEIGHT = 121 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
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 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	1.75	3.00
C	TMVW4	MT20	3.0	4.0	1.50	1.50
D	TTVW+m	MT20	5.0	6.0	2.50	1.50
E	TMVW+w	MT20	2.0	4.0		
F	TTVW+m	MT20	5.0	6.0	2.50	1.50
G	TMVW4	MT20	3.0	4.0	1.50	1.50
H	TMVW4	MT20	5.0	6.0	1.75	3.00
J	BMV1+p	MT20	2.0	4.0	2.25	1.00
K	BMVW4	MT20	3.0	8.0	1.50	3.50
L	BMVW4	MT20	3.0	4.0		
M	BS4	MT20	3.0	4.0		
N	BMVW4	MT20	3.0	8.0		
O	BMVW4	MT20	3.0	4.0		
P	BMVW4	MT20	3.0	8.0	1.50	3.50
Q	BMV1+p	MT20	2.0	4.0	2.25	1.00

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
Q	2034	0	2034	0
J	2034	0	2034	0

UNFACTORED REACTIONS

	1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW
Q	1419	1041 / 0
J	1419	1041 / 0

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

BRACINGTOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.06 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. UNBRACED LENGTH	MAX. CSI (LC)
FR-TO				FR-TO			
A-B	0 / 45	-119.4	-119.4 0.16 (1)	P-C	-397 / 0	10.00	0.10 (1)
B-C	-2094 / 0	-119.4	-119.4 0.29 (1)	C-O	-168 / 0	0.09 (1)	
C-D	-2012 / 0	-119.4	-119.4 0.28 (1)	O-D	0 / 210	0.05 (1)	
D-E	-2046 / 0	-119.4	-119.4 0.53 (1)	D-N	0 / 607	0.14 (1)	
E-F	-2046 / 0	-119.4	-119.4 0.53 (1)	N-E	-816 / 0	0.62 (1)	
F-G	-2012 / 0	-119.4	-119.4 0.28 (1)	N-F	0 / 607	0.14 (1)	
G-H	-2094 / 0	-119.4	-119.4 0.29 (1)	L-F	0 / 210	0.05 (1)	
H-I	0 / 45	-119.4	-119.4 0.16 (1)	L-G	-168 / 0	0.09 (1)	
Q-B	-1998 / 0	0.0	0.0 0.21 (1)	K-G	-397 / 0	0.10 (1)	
J-H	-1998 / 0	0.0	0.0 0.21 (1)	B-P	0 / 1827	0.41 (1)	
				K-H	0 / 1827	0.41 (1)	
Q-P	0 / 0	-18.2	-18.2 0.06 (4)				
P-O	0 / 1767	-18.2	-18.2 0.34 (1)				
O-N	0 / 1649	-18.2	-18.2 0.32 (1)				
N-M	0 / 1649	-18.2	-18.2 0.32 (1)				
M-L	0 / 1649	-18.2	-18.2 0.32 (1)				
L-K	0 / 1767	-18.2	-18.2 0.34 (1)				
K-J	0 / 0	-18.2	-18.2 0.06 (4)				

DESIGN CRITERIA**SPECIFIED LOADS:**

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

SPACING = 24.0 IN./C

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 (0.91")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (0.91")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")CSI: TC=0.53/0.97 (D-E:1), BC=0.34/0.97 (K-L:1),
WB=0.62/0.97 (E-N:1), SS=0.32/1.00 (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)
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 (K) (INPUT = 0.90)
JSI METAL = 0.55 (H) (INPUT = 1.00)

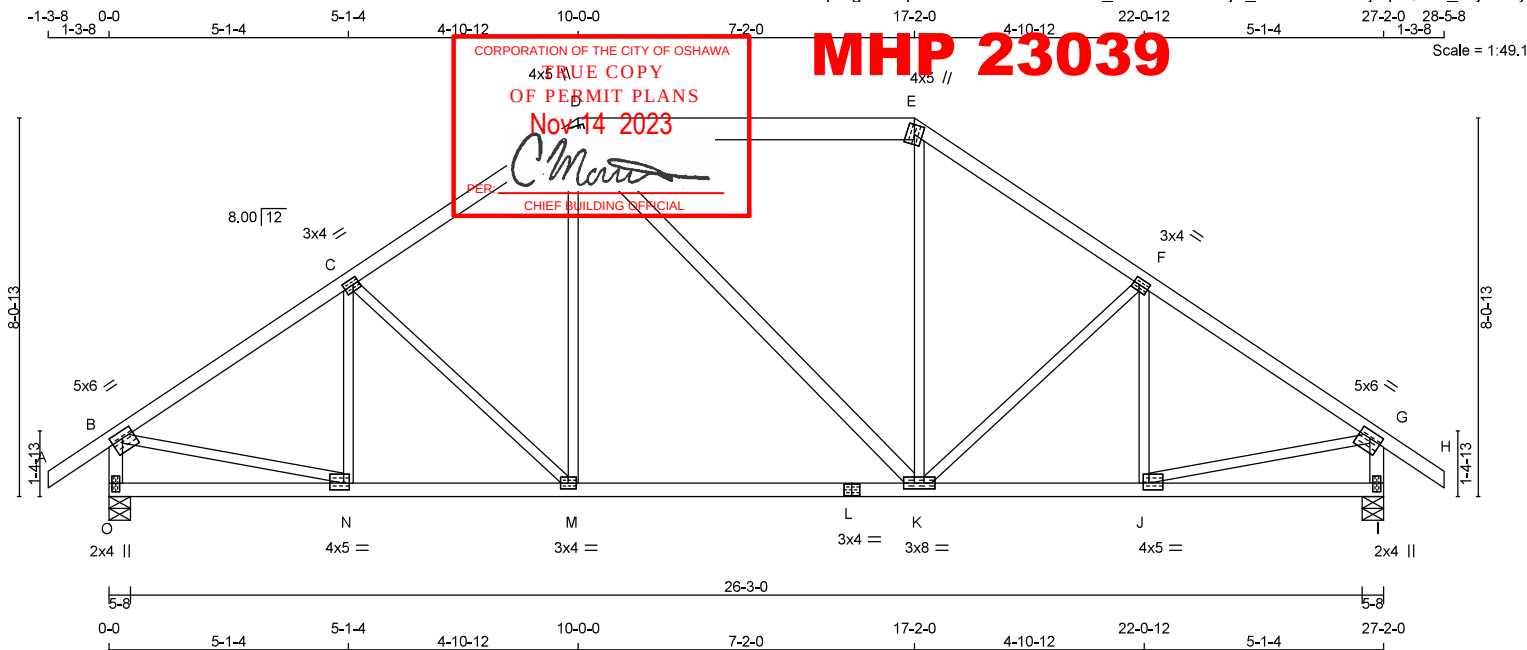
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-138	T02	1	1	GREENPARK - ZADORRA ESTATES - VILLA 12-2	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:33 2023 Page 1

ID: VquVgowiAqiumFmAwex71eJ-S_xH8LucsH5UDjN_ncnON3ITNPcjaqLQebP_vJywE8y

**LUMBER**

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-4	MT20	5.0	6.0	1.75	3.00
C	TMVW-4	MT20	3.0	4.0	1.50	1.50
D	TTVW+m	MT20	4.0	5.0	2.25	2.00
E	TTVW+m	MT20	4.0	5.0		
F	TMVW-4	MT20	3.0	4.0	1.50	1.50
G	TMVW-4	MT20	5.0	6.0	1.75	3.00
I	BMV1+p	MT20	2.0	4.0	2.25	1.00
J	BMVW-4	MT20	4.0	5.0	1.75	1.50
K	BMVW-4	MT20	3.0	8.0		
L	BS-4	MT20	3.0	4.0		
M	BMVW-4	MT20	3.0	4.0		
N	BMVW-4	MT20	4.0	5.0	1.75	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	2034	0	2034	0	0	5-8	3-2
I	2034	0	2034	0	0	5-8	3-2

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN.	COMPONENT REACTIONS
O	1419	1041 / 0	0 / 0
I	1419	1041 / 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 = 4.15 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.	CHORDS	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX. FACTORED FORCE (LBS)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO								
A-B	0 / 45	-119.4	-119.4	0.16 (1)	10.00	N-C	-298 / 0	0.10 (1)
B-C	-2140 / 0	-119.4	-119.4	0.45 (1)	4.15	C-M	-370 / 0	0.29 (1)
C-D	-1890 / 0	-119.4	-119.4	0.43 (1)	4.39	M-D	0 / 372	0.08 (1)
D-E	-1539 / 0	-119.4	-119.4	0.40 (1)	5.71	D-K	0 / 0	0.00 (1)
E-F	-1891 / 0	-119.4	-119.4	0.43 (1)	4.38	K-E	0 / 373	0.08 (1)
F-G	-2140 / 0	-119.4	-119.4	0.45 (1)	4.15	K-F	-368 / 0	0.29 (1)
G-H	0 / 45	-119.4	-119.4	0.16 (1)	10.00	J-F	-300 / 0	0.10 (1)
O-B	-1991 / 0	0.0	0.0	0.21 (1)	5.91	B-N	0 / 1853	0.42 (1)
I-G	-1991 / 0	0.0	0.0	0.21 (1)	5.91	J-G	0 / 1853	0.42 (1)
O-N	0 / 0	-18.2	-18.2	0.10 (4)	10.00			
N-M	0 / 1813	-18.2	-18.2	0.38 (1)	10.00			
M-L	0 / 1538	-18.2	-18.2	0.34 (1)	10.00			
L-K	0 / 1538	-18.2	-18.2	0.34 (1)	10.00			
K-J	0 / 1813	-18.2	-18.2	0.38 (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 LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.91")
CALCULATED VERT. DEFL.(LL)= L/999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.91")
CALCULATED VERT. DEFL.(TL)= L/999 (0.16")

CSI: TC=0.45/0.97 (B-C:1) , BC=0.38/0.97 (J-K:1) ,
WB=0.42/0.97 (B-N: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 (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= 0.85 (O) (INPUT = 0.90)
JSI METAL = 0.57 (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.

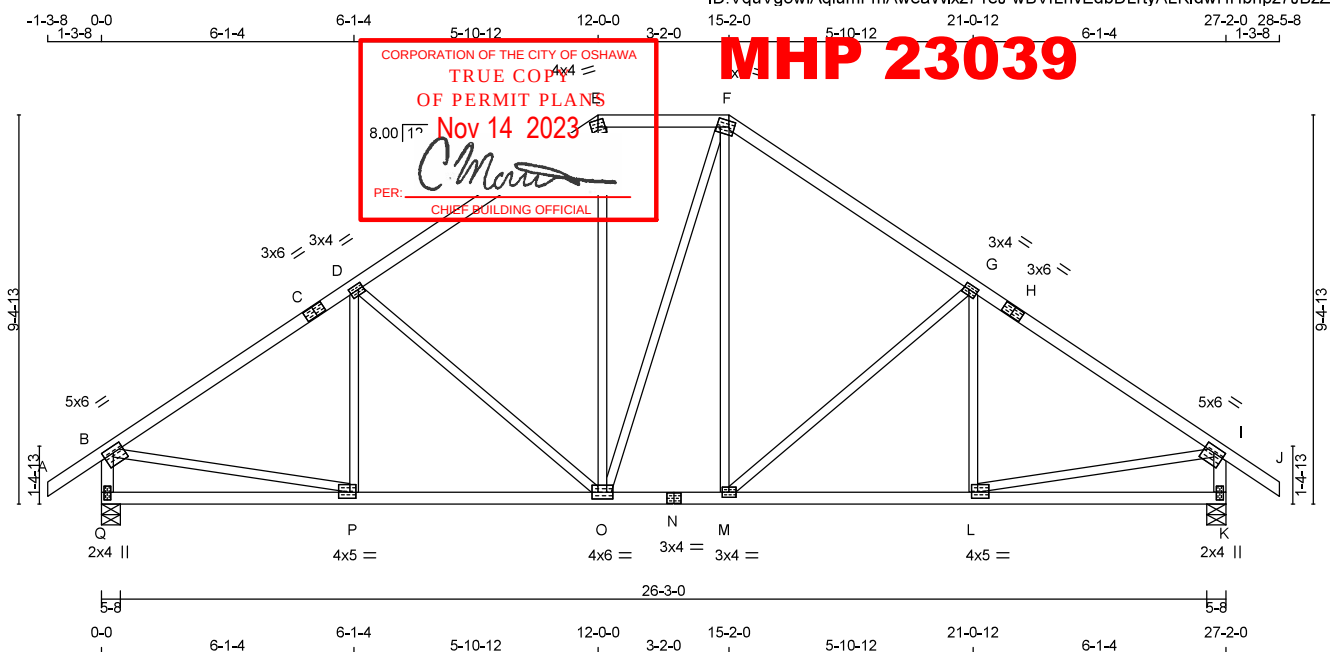


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - ZADORRA ESTATES -	DRWG NO.
NE0723-138	T03	1	1	TRUSS DESC.	VILLA 12-2	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:34 2023 Page 1

ID: VquVgowiAqumFmAwewaWmxz71eJ-wBVfLHVEdbDLrtyALKIdwHHbhpz7JBzZtF9XRlywE8x

Scale = 1:55.7



TOTAL WEIGHT = 125 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
F - H	2x4	DRY	No.2
H - J	2x4	DRY	No.2
J - B	2x4	DRY	No.2
Q - I	2x4	DRY	No.2
Q - N	2x4	DRY	No.2
N - K	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	1.75	3.00
C	TS4	MT20	3.0	6.0		
D	TMVW4	MT20	3.0	4.0	1.50	1.50
E	TTW-m	MT20	4.0	4.0		
F	TTVW-m	MT20	4.0	5.0	1.75	1.50
G	TMVW4	MT20	3.0	4.0	1.50	1.50
H	TS4	MT20	3.0	6.0		
I	TMVW4	MT20	5.0	6.0	1.75	3.00
K	BMV1+p	MT20	2.0	4.0	2.25	1.00
L	BMVW4	MT20	4.0	5.0	1.75	1.75
M	BMVW4	MT20	3.0	4.0		
N	BS4	MT20	3.0	4.0		
O	BMVW4	MT20	4.0	6.0		
P	BMVW4	MT20	4.0	5.0	1.75	1.75
Q	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	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
Q	2034	0	2034	0
K	2034	0	2034	0

UNFACTORED REACTIONS

	1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW
Q	1419	1041 / 0
K	1419	1041 / 0

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

BRACINGTOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.75 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED (LC1) (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED (LC1) (LC)	
FR-TO				FR-TO			
A-B	0 / 45	-119.4	-119.4 0.16 (1)	P-D	-202 / 56	0.09 (1)	
B-C	-2153 / 0	-119.4	-119.4 0.67 (1)	D-O	-598 / 0	0.77 (1)	
C-D	-2153 / 0	-119.4	-119.4 0.67 (1)	O-E	0 / 469	0.11 (1)	
D-E	-1706 / 0	-119.4	-119.4 0.61 (1)	E-F	0 / 4	0.00 (1)	
E-F	-1382 / 0	-119.4	-119.4 0.17 (1)	M-F	0 / 463	0.10 (1)	
F-G	-1704 / 0	-119.4	-119.4 0.61 (1)	L-G	-601 / 0	0.78 (1)	
G-H	-2154 / 0	-119.4	-119.4 0.67 (1)	P-G	-199 / 57	0.09 (1)	
H-I	-2154 / 0	-119.4	-119.4 0.67 (1)	B-P	0 / 1859	0.42 (1)	
I-J	0 / 45	-119.4	-119.4 0.16 (1)	L-I	0 / 1860	0.42 (1)	
Q-B	-1987 / 0	0.0	0.0 0.20 (1)				
K-I	-1988 / 0	0.0	0.0 0.20 (1)				
Q-P	0 / 0	-18.2	-18.2 0.16 (4)				
P-O	0 / 1831	-18.2	-18.2 0.37 (1)				
O-N	0 / 1381	-18.2	-18.2 0.28 (1)				
N-M	0 / 1381	-18.2	-18.2 0.28 (1)				
M-L	0 / 1831	-18.2	-18.2 0.37 (1)				
L-K	0 / 0	-18.2	-18.2 0.17 (4)				

DESIGN CRITERIA**SPECIFIED LOADS:**

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

SPACING = 24.0 IN. C/C

LOADING IN 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 (0.91")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (0.91")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")CSI: TC=0.67/0.97 (G-I:1), BC=0.37/0.97 (L-M:1),
WB=0.78/0.97 (G-M:1), SSI=0.29/1.00 (G-I:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10
SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (M) (INPUT = 0.90)
JSI METAL = 0.58 (I) (INPUT = 1.00)

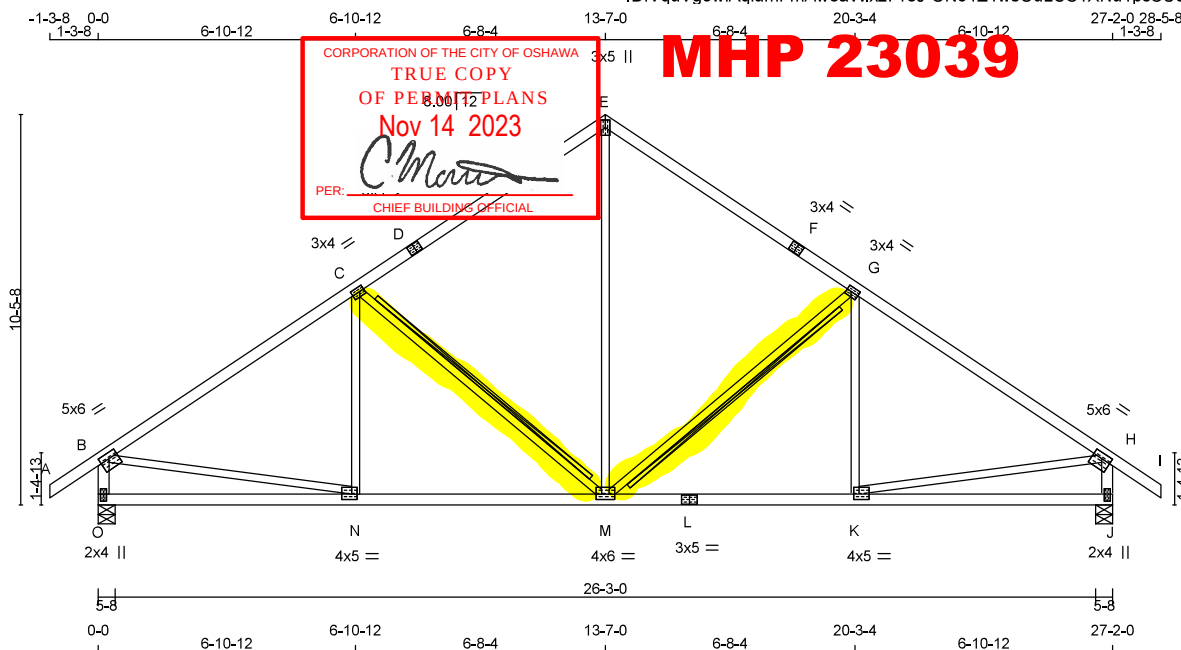
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - ZADORRA ESTATES -	DRWG NO.
NE0723-138	T04	1	1	TRUSS DESC.	VILLA 12-2	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:35 2023 Page 1

ID:VquVgowiAqiumFmAweaWmxz71eJ-ON31Z1wsOuLCS1XNu1psSUqj3DI32kPj5vu5_BywE8w



Scale = 1:61.7

TOTAL WEIGHT = 116 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
F - 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	1.75	3.00
C	TMWW4	MT20	3.0	4.0	1.50	1.50
D	TS4	MT20	3.0	4.0		
E	TTW+p	MT20	3.0	5.0		
F	TS4	MT20	3.0	4.0		
G	TMWW4	MT20	3.0	4.0	1.50	1.50
H	TMWW4	MT20	5.0	6.0	1.75	3.00
J	BMV1+p	MT20	2.0	4.0	2.25	1.00
K	BMWW4	MT20	4.0	5.0	1.75	1.75
L	BS4	MT20	3.0	5.0		
M	BMWWWW4	MT20	4.0	6.0	1.75	3.00
N	BMWW4	MT20	4.0	5.0	1.75	1.75
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	2034	0	2034	0
J	2034	0	2034	0

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
O	1419	1041 / 0	0 / 0
J	1419	1041 / 0	0 / 0

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

BRACINGTOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.30 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

2x4 DRY SPF No.2 T-BRACE AT G-M, C-M

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX.	MEMB.	WEBS	MAX. FACTORED	MAX
		FORCE	(PLF)			CSI (LC)	UNBRAC			FORCE	MAX
FR-TO		(LBS)	FROM TO				LENGTH	FR-TO		(LBS)	CSI (LC)
A-B	0 / 45		-119.4	-119.4	0.16 (1)	10.00	M-E	0 / 1081	0.24 (1)		
B-C	-2141 / 0		-119.4	-119.4	0.89 (1)	3.30	M-G	-744 / 0	0.44 (1)		
C-D	-1569 / 0		-119.4	-119.4	0.79 (1)	3.94	K-G	-150 / 81	0.08 (1)		
D-E	-1569 / 0		-119.4	-119.4	0.79 (1)	3.94	C-M	-744 / 0	0.44 (1)		
E-F	-1569 / 0		-119.4	-119.4	0.79 (1)	3.94	N-C	-150 / 81	0.08 (1)		
F-G	-1569 / 0		-119.4	-119.4	0.79 (1)	3.94	B-N	0 / 1848	0.42 (1)		
G-H	-2141 / 0		-119.4	-119.4	0.89 (1)	3.30	K-H	0 / 1848	0.42 (1)		
H-I	0 / 45		-119.4	-119.4	0.16 (1)	10.00					
C-B	-1982 / 0		0.0	0.0	0.20 (1)	5.91					
J-H	-1982 / 0		0.0	0.0	0.20 (1)	5.91					

C-N	0 / 0	-18.2	-18.2	0.20 (4)	10.00
N-M	0 / 1826	-18.2	-18.2	0.39 (1)	10.00
M-L	0 / 1826	-18.2	-18.2	0.39 (1)	10.00
L-K	0 / 1826	-18.2	-18.2	0.39 (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

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) = $L/360$ (0.91")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.08")
ALLOWABLE DEFL.(TL) = $L/360$ (0.91")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.15")CSI: TC=0.89/0.97 (B-C:1), BC=0.39/0.97 (M-N:1),
WB=0.44/0.97 (C-M:1), SS=0.33/1.00 (B-C:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10
SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

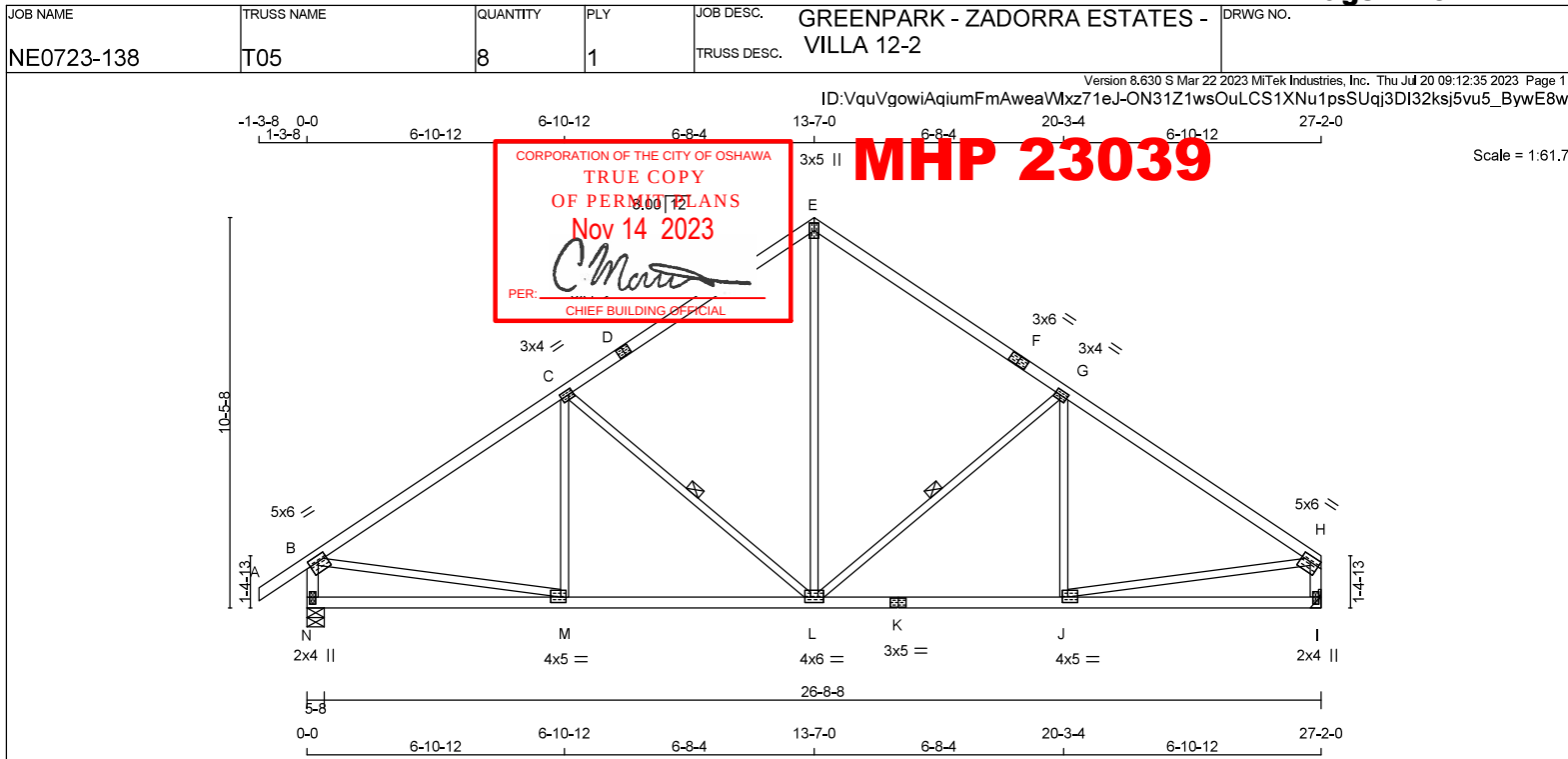
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (O) (INPUT = 0.90)
JSI METAL = 0.59 (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 = 8 X 114 = 911 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
N - B	2x4	DRY	No.2
I - H	2x4	DRY	No.2
N - K	2x4	DRY	No.2
K - 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	1.75	3.00
C	TMVW4	MT20	3.0	4.0	1.50	1.50
D	TS4	MT20	3.0	4.0		
E	TTW+p	MT20	3.0	5.0		
F	TS4	MT20	3.0	6.0		
G	TMVW4	MT20	3.0	4.0	1.50	1.50
H	TMVW4	MT20	5.0	6.0	1.75	Edge
I	BMV1+p	MT20	2.0	4.0	2.25	1.00
J	BMVW4	MT20	4.0	5.0	1.75	1.75
K	BS4	MT20	3.0	5.0		
L	BMVW4	MT20	4.0	6.0	1.75	3.00
M	BMVW4	MT20	4.0	5.0	1.75	1.75
N	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**

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
N	2034	0	2034	0	0	5-8	3-2
I	1870	0	1870	0	0	MECHANICAL	

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT I. MINIMUM BEARING LENGTH AT JOINT I = 2-9.

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
N	1419	1041 / 0	0 / 0	0 / 0	0 / 0	0 / 0	378 / 0	0 / 0
I	1307	946 / 0	0 / 0	0 / 0	0 / 0	0 / 0	361 / 0	0 / 0

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

BRACINGTOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.30 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF G-L, C-L. DBS = 20-0-0. CBF = 93 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM	TO	FR-TO				
A-B	0 / 45	-119.4	-119.4	0.16 (1)	10.00	L-E	0 / 1081	0.24 (1)
B-C	-2141 / 0	-119.4	-119.4	0.89 (1)	3.30	L-G	-744 / 0	0.39 (1)
C-D	-1569 / 0	-119.4	-119.4	0.79 (1)	3.94	J-G	-150 / 81	0.08 (1)
D-E	-1569 / 0	-119.4	-119.4	0.79 (1)	3.94	C-L	-744 / 0	0.39 (1)
E-F	-1569 / 0	-119.4	-119.4	0.79 (1)	3.94	M-C	-150 / 81	0.08 (1)
F-G	-1569 / 0	-119.4	-119.4	0.79 (1)	3.94	B-M	0 / 1848	0.42 (1)
G-H	-2141 / 0	-119.4	-119.4	0.89 (1)	3.30	J-H	0 / 1848	0.42 (1)
N-B	-1982 / 0	0.0	0.0	0.20 (1)	5.91			
I-H	-1818 / 0	0.0	0.0	0.19 (1)	6.13			
N-M	0 / 0	-18.2	-18.2	0.20 (4)	10.00			
M-L	0 / 1826	-18.2	-18.2	0.39 (1)	10.00			
L-K	0 / 1826	-18.2	-18.2	0.39 (1)	10.00			
K-J	0 / 1826	-18.2	-18.2	0.39 (1)	10.00			
J-I	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

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) = $L/360$ (0.91")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.08")
ALLOWABLE DEFL.(TL) = $L/360$ (0.91")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.15")CSI: TC=0.89/0.97 (G-H-1), BC=0.39/0.97 (J-L-1),
WB=0.42/0.97 (H-J-1), SSI=0.33/1.00 (B-C-1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10
SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

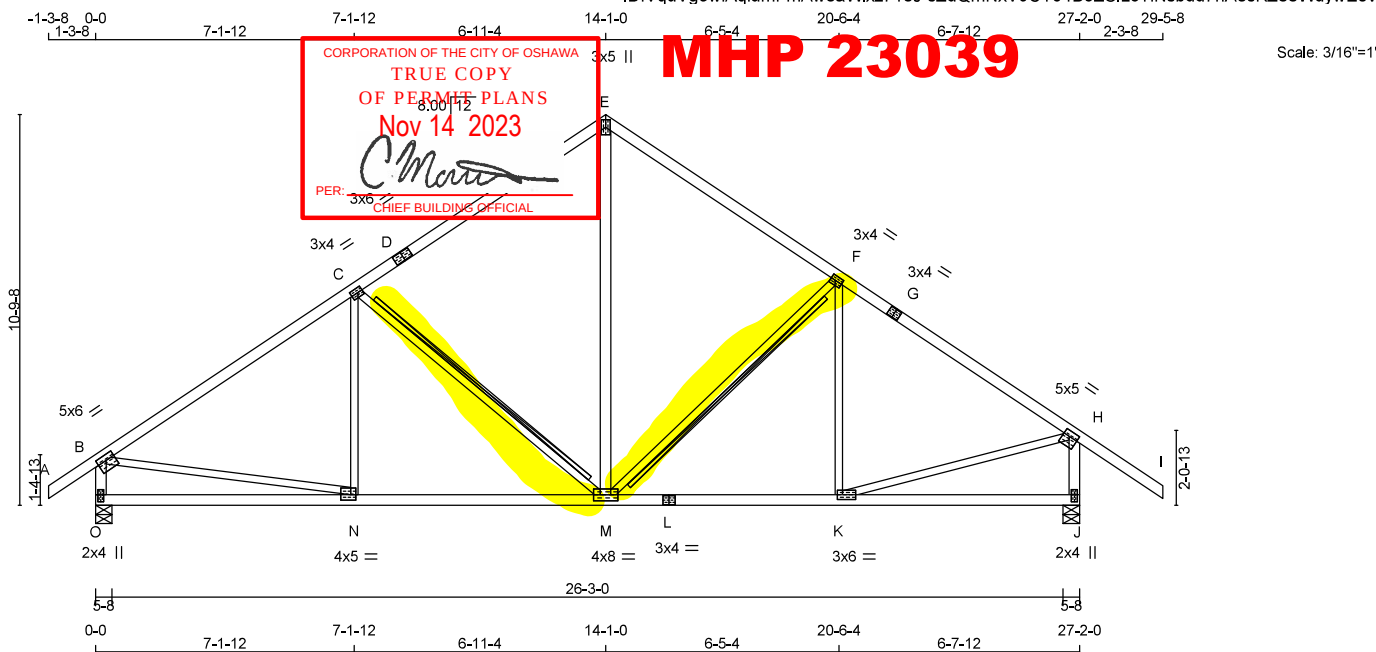
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - ZADORRA ESTATES -	DRWG NO.
NE0723-138	T06	2	1	TRUSS DESC.	VILLA 12-2	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:36 2023 Page 1

ID:VquVgowiAqiumFmAweaWlxz71eJ-sZdQmNxV9CT34B6ZSIL5?iNsbdd7nAesKZeeWdywE8v



TOTAL WEIGHT = 2 X 122 = 245 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - 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			
M - E	2x4	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	3.00
C	TMVW4	MT20	3.0	4.0	1.50	1.50
D	TS4	MT20	3.0	6.0		
E	TTW+p	MT20	3.0	5.0		
F	TMVW4	MT20	3.0	4.0	1.50	1.50
G	TS4	MT20	3.0	4.0		
H	TMVW4	MT20	5.0	5.0	1.75	2.00
J	BMV1+p	MT20	2.0	4.0	2.25	1.00
K	BMVW4	MT20	3.0	6.0	1.50	1.75
L	BS4	MT20	3.0	4.0		
M	BMVW4	MT20	4.0	8.0		
N	BMVW4	MT20	4.0	5.0	1.75	1.75
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	2034	0	2034	0
J	2153	0	2153	0

UNFACTORED REACTIONS

	1ST CASE	MAX. MIN.	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
O	1419	1041 / 0	0 / 0
J	1501	1111 / 0	0 / 0

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

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

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

2x4 DRY SPF No.2 T-BRACE AT C-M, F-M

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LBS)
FR-TO						FR-TO		
A-B	0 / 45	-119.4	-119.4	0.16 (1)	10.00	N-C	-133 / 90	0.08 (1)
B-C	-2135 / 0	-119.4	-119.4	0.97 (1)	3.03	C-M	-792 / 0	0.51 (1)
C-D	-1521 / 0	-119.4	-119.4	0.86 (1)	3.76	M-E	0 / 1026	0.16 (1)
D-E	-1521 / 0	-119.4	-119.4	0.86 (1)	3.76	M-F	-575 / 0	0.35 (1)
E-F	-1517 / 0	-119.4	-119.4	0.73 (1)	4.19	K-F	-298 / 35	0.21 (1)
F-G	-1909 / 0	-119.4	-119.4	0.79 (1)	3.71	B-N	0 / 1844	0.41 (1)
G-H	-1909 / 0	-119.4	-119.4	0.79 (1)	3.71	K-H	0 / 1687	0.38 (1)
H-I	0 / 79	-119.4	-119.4	0.47 (1)	10.00			
C-B	-1980 / 0	0.0	0.0	0.20 (1)	5.91			
J-H	-2103 / 0	0.0	0.0	0.24 (1)	5.77			

C-N	0 / 0	-18.2	-18.2	0.22 (4)	10.00
N-M	0 / 1823	-18.2	-18.2	0.40 (1)	10.00
M-L	0 / 1632	-18.2	-18.2	0.36 (1)	10.00
L-K	0 / 1632	-18.2	-18.2	0.36 (1)	10.00
K-J	0 / 0	-18.2	-18.2	0.19 (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) = $L/360$ (0.91")
 CALCULATED VERT. DEFL.(LL) = $L/999$ (0.08")
 ALLOWABLE DEFL.(TL) = $L/360$ (0.91")
 CALCULATED VERT. DEFL.(TL) = $L/999$ (0.15")

CSI: TC=0.97/0.97 (B-C-1), BC=0.40/0.97 (M-N-1), WB=0.51/0.97 (C-M-1), SSI=0.34/1.00 (B-C-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

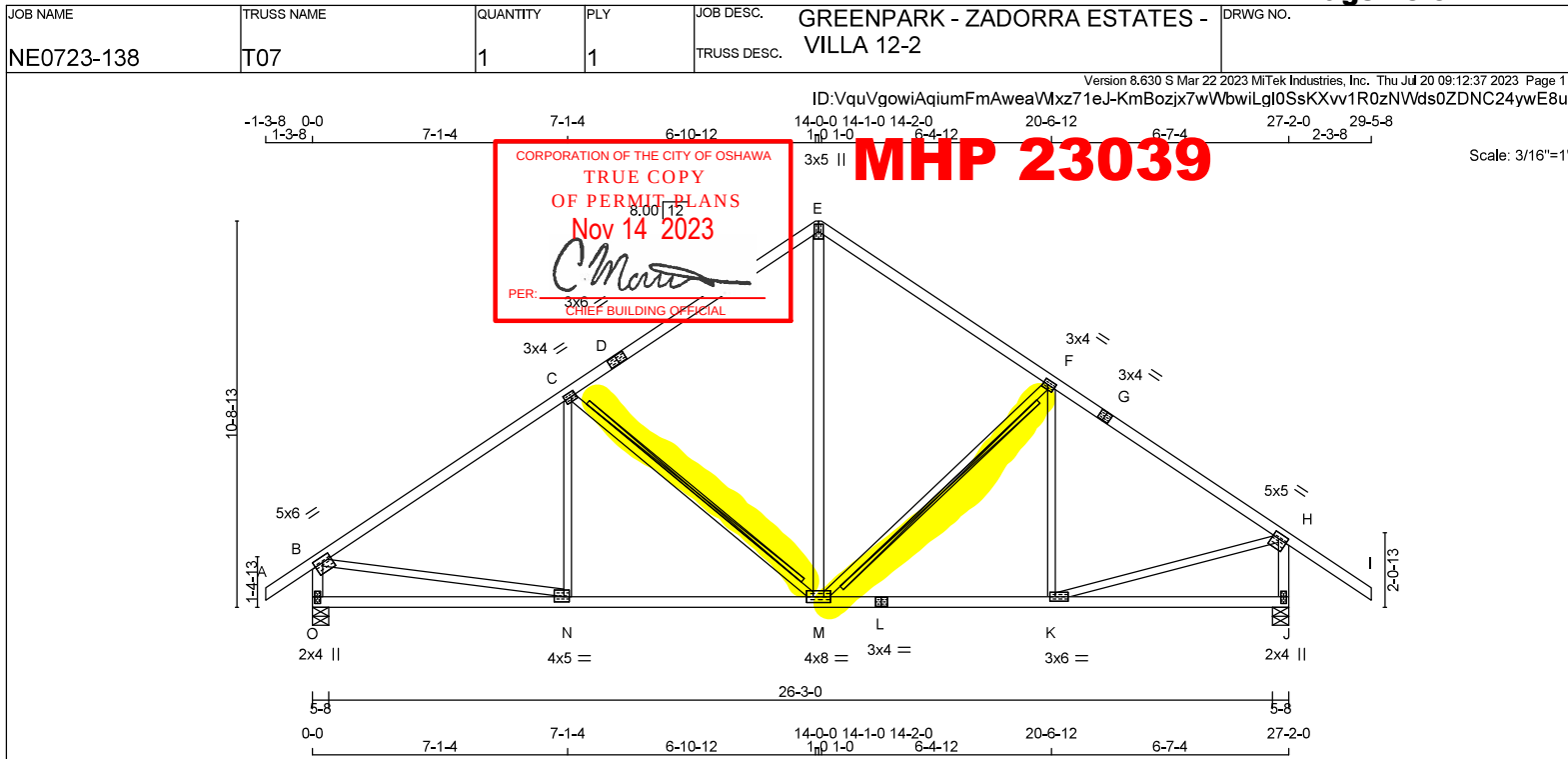
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (H) (INPUT = 0.90)
JSI METAL = 0.62 (H) (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 - 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			
M - E	2x4	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	3.00
C	TMVW4	MT20	3.0	4.0	1.50	1.50
D	TS4	MT20	3.0	6.0		
E	TTW+p	MT20	3.0	5.0		
F	TMVW4	MT20	3.0	4.0	1.50	1.50
G	TS4	MT20	3.0	4.0		
H	TMVW4	MT20	5.0	5.0	1.75	2.00
J	BMV1+p	MT20	2.0	4.0	2.25	1.00
K	BMVW4	MT20	3.0	6.0	1.50	1.75
L	BS4	MT20	3.0	4.0		
M	BMVW4	MT20	4.0	8.0		
N	BMVW4	MT20	4.0	5.0	1.75	1.75
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 GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
O	2034	0	2034	0
J	2153	0	2153	0

UNFACTORED REACTIONS

	1ST LCASE	MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
O	1419	1041 / 0	0 / 0	0 / 0	0 / 0	378 / 0	0 / 0
J	1501	1111 / 0	0 / 0	0 / 0	0 / 0	390 / 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 = 3.05 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-M, F-M

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LBS)
FR-TO						FR-TO			
A-B	0 / 45	-119.4	-119.4	0.16 (1)	10.00	N-C	-135 / 90	0.08 (1)	
B-C	-2137 / 0	-119.4	-119.4	0.96 (1)	3.05	C-M	-791 / 0	0.51 (1)	
C-D	-1521 / 0	-119.4	-119.4	0.86 (1)	3.75	M-F	-572 / 0	0.35 (1)	
D-E	-1521 / 0	-119.4	-119.4	0.86 (1)	3.75	K-F	-301 / 34	0.21 (1)	
E-F	-1517 / 0	-119.4	-119.4	0.73 (1)	4.19	B-N	0 / 1846	0.42 (1)	
F-G	-1910 / 0	-119.4	-119.4	0.78 (1)	3.72	K-H	0 / 1689	0.38 (1)	
G-H	-1910 / 0	-119.4	-119.4	0.78 (1)	3.72	M-E	0 / 1020	0.16 (1)	
H-I	0 / 79	-119.4	-119.4	0.47 (1)	10.00				
C-B	-1981 / 0	0.0	0.0	0.20 (1)	5.91				
J-H	-2103 / 0	0.0	0.0	0.24 (1)	5.77				
O-N	0 / 0	-18.2	-18.2	0.22 (4)	10.00				
N-M	0 / 1825	-18.2	-18.2	0.40 (1)	10.00				
M-L	0 / 1633	-18.2	-18.2	0.35 (1)	10.00				
L-K	0 / 1633	-18.2	-18.2	0.35 (1)	10.00				
K-J	0 / 0	-18.2	-18.2	0.19 (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) = $L/360$ (0.91")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.08")
ALLOWABLE DEFL.(TL) = $L/360$ (0.91")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.15")

CSI: TC=0.96/0.97 (B-C-1), BC=0.40/0.97 (M-N-1), WB=0.51/0.97 (C-M-1), SS=0.34/1.00 (B-C-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (H) (INPUT = 0.90)
JSI METAL = 0.62 (H) (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.

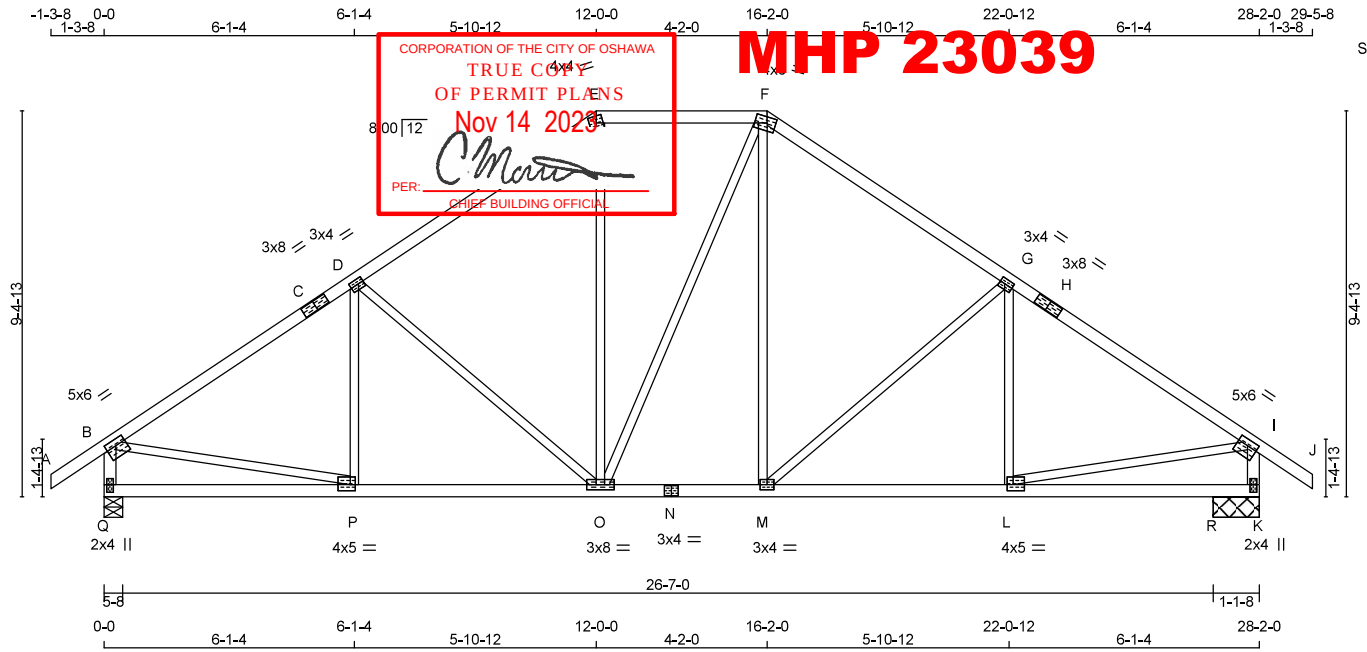


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - ZADORRA ESTATES -	DRWG NO.
NE0723-138	T08	1	1	TRUSS DESC.	VILLA 12-2	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:37 2023 Page 1

ID:VquVgowiAqiumFmAweaVMxz71eJ-KmBozjx7wVbwilgl0SsKXv6i0_hWZs0ZDNC24ywE8u

Scale = 1:56.2



TOTAL WEIGHT = 128 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	2100F 1.8E	SPF
E - F	2x4	DRY	No.2	SPF
F - H	2x4	DRY	2100F 1.8E	SPF
H - J	2x4	DRY	No.2	SPF
Q - B	2x4	DRY	No.2	SPF
K - I	2x4	DRY	No.2	SPF
Q - N	2x4	DRY	No.2	SPF
N - K	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW4	MT20	5.0	6.0	1.75	3.00
C	TS4		3.0	8.0		
D	TMVW4	MT20	3.0	4.0	1.50	1.50
E	TTW-m	MT20	4.0	4.0		
F	TTWVW-m	MT20	4.0	6.0	1.75	2.50
G	TMVW4	MT20	3.0	4.0	1.50	1.50
H	TS4	MT20	3.0	8.0		
I	TMVW4	MT20	5.0	6.0	1.75	3.00
K	BMV1+p	MT20	2.0	4.0	2.25	1.00
L	BMVW4	MT20	4.0	5.0	1.75	1.75
M	BMVW4	MT20	3.0	4.0		
N	BS4	MT20	3.0	4.0		
O	BMVW4	MT20	3.0	8.0		
P	BMVW4	MT20	4.0	5.0	1.75	1.50
Q	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	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
Q	2097	0	2097	0
K	1951	0	1951	0
R	158	0	158	0

UNFACTORED REACTIONS

JT	1ST CASE	MAX./MIN.	COMPONENT REACTIONS	WIND	DEAD	SOIL
Q	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
K	1462	1074 / 0	0 / 0	0 / 0	0 / 0	388 / 0
Q	1354	1034 / 0	0 / 0	0 / 0	0 / 0	320 / 0
R	118	43 / 0	0 / 0	0 / 0	0 / 0	75 / 0

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

BRACINGTOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.87 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO					FR-TO		
A-B	0 / 45	-119.4	0.16 (1)	10.00	P-D	-215 / 53	0.10 (1)
B-C	-2245 / 0	-119.4	0.69 (1)	3.87	D-O	-592 / 0	0.77 (1)
C-D	-2245 / 0	-119.4	0.69 (1)	3.87	O-E	0 / 467	0.11 (1)
D-E	-1807 / 0	-119.4	0.57 (1)	5.09	O-F	0 / 4	0.00 (1)
E-F	-1465 / 0	-119.4	0.40 (1)	4.85	M-F	0 / 462	0.10 (1)
F-G	-1805 / 0	-119.4	0.57 (1)	5.09	M-G	-558 / 0	0.72 (1)
G-H	-2211 / 0	-119.4	0.68 (1)	3.90	L-G	-256 / 25	0.12 (1)
H-I	-2211 / 0	-119.4	0.68 (1)	3.90	B-P	0 / 1938	0.44 (1)
I-J	0 / 45	-119.4	0.16 (1)	10.00	L-I	0 / 1910	0.43 (1)
Q-B	-2050 / 0	0.0	0.0 0.21 (1)	5.83			
K-I	-2026 / 0	0.0	0.0 0.21 (1)	5.86			
Q-P	0 / 0	-18.2	-18.2 0.18 (4)	10.00			
P-O	0 / 1909	-18.2	-18.2 0.38 (1)	10.00			
O-N	0 / 1463	-18.2	-18.2 0.30 (1)	10.00			
N-M	0 / 1463	-18.2	-18.2 0.30 (1)	10.00			
M-L	0 / 1881	-18.2	-18.2 0.38 (1)	10.00			
L-R	0 / 0	-18.2	-18.2 0.13 (1)	10.00			
R-K	0 / 0	-18.2	-18.2 0.13 (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

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 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/999 (0.15")CSI: TC=0.69/0.97 (B-D:1), BC=0.38/0.97 (O-P:1),
WB=0.77/0.97 (D-O:1), SSI=0.29/1.00 (G-I:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10
SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) 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 (L) (INPUT = 0.90)
JSI METAL = 0.60 (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.

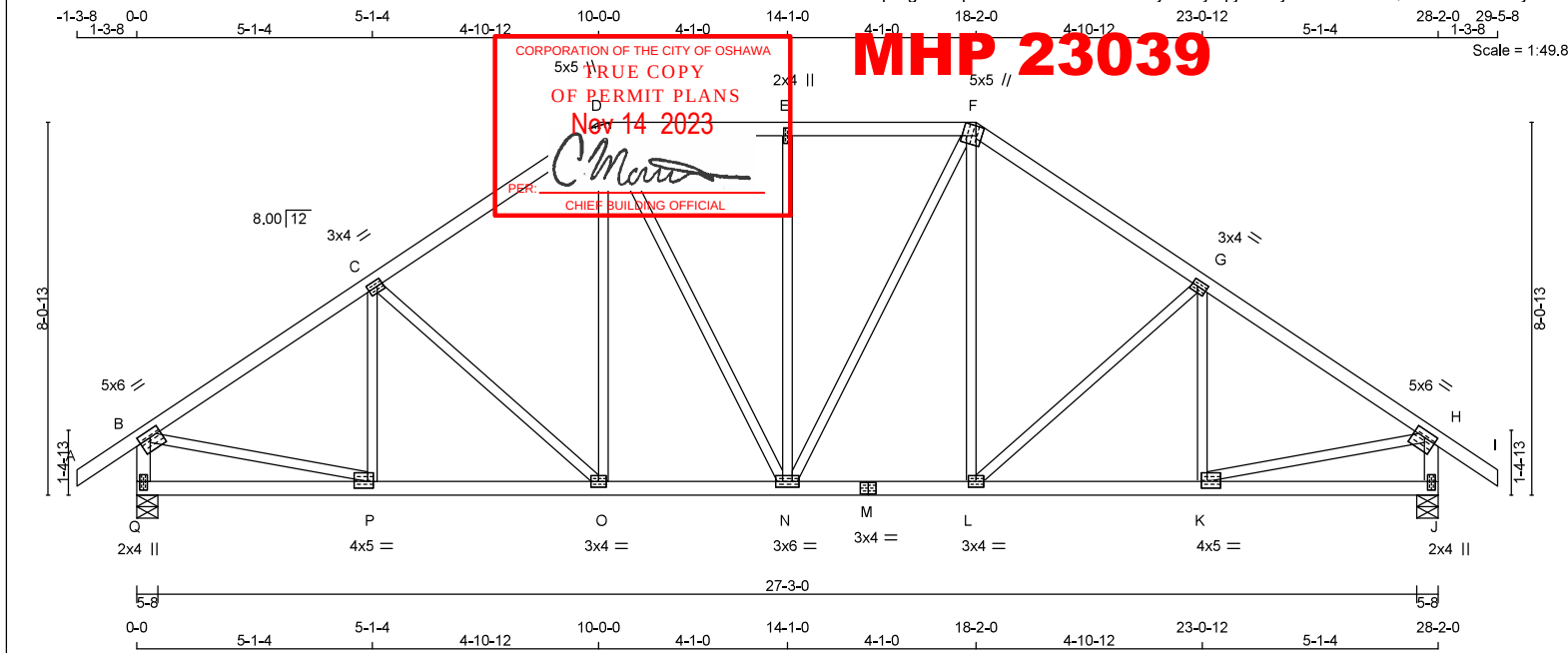


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - ZADORRA ESTATES - VILLA 12-2	DRWG NO.
NE0723-138	T09	1	1	TRUSS DESC.		

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:38 2023 Page 1

ID: VquVgowiAqiumFmAwewaMxz71eJ-oylAB3yIhpjnJVfYaANZ47SK?QKUF0e9ot7laWywE8t

Scale = 1:49.8



TOTAL WEIGHT = 132 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW4	MT20	5.0	6.0	1.75	3.00
C	TMVW4	MT20	3.0	4.0	1.50	1.50
D	TTVW+m	MT20	5.0	5.0	2.50	1.50
E	TMVW+w	MT20	2.0	4.0		
F	TTVW+m	MT20	5.0	5.0	2.50	1.50
G	TMVW4	MT20	3.0	4.0	1.50	1.50
H	TMVW4	MT20	5.0	6.0	1.75	3.00
J	BMV1+p	MT20	2.0	4.0	2.25	1.00
K	BMVW4	MT20	4.0	5.0	1.75	1.50
L	BMVW4	MT20	3.0	4.0		
M	BS4	MT20	3.0	4.0		
N	BMVW4	MT20	3.0	6.0		
O	BMVW4	MT20	3.0	4.0		
P	BMVW4	MT20	4.0	5.0	1.75	1.50
Q	BMV1+p	MT20	2.0	4.0	2.25	1.00

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
Q	2103	0	2103	0
J	2103	0	2103	0

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	1467	1076 / 0	0 / 0	0 / 0	0 / 0	391 / 0	0 / 0
J	1467	1076 / 0	0 / 0	0 / 0	0 / 0	391 / 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 = 4.06 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)
FR-TO		FROM	TO		FR-TO		
A-B	0 / 45	-119.4	-119.4 0.16 (1)	10.00	P-C	-303 / 9	0.10 (1)
B-C	-2237 / 0	-119.4	-119.4 0.46 (1)	4.06	C-O	-379 / 0	0.32 (1)
C-D	-1979 / 0	-119.4	-119.4 0.44 (1)	4.30	O-D	0 / 339	0.08 (1)
D-E	-1787 / 0	-119.4	-119.4 0.28 (1)	4.69	D-N	0 / 368	0.08 (1)
E-F	-1787 / 0	-119.4	-119.4 0.28 (1)	4.69	N-E	-587 / 0	0.73 (1)
F-G	-1979 / 0	-119.4	-119.4 0.44 (1)	4.30	N-F	0 / 368	0.08 (1)
G-H	-2237 / 0	-119.4	-119.4 0.46 (1)	4.06	L-F	0 / 339	0.08 (1)
H-I	0 / 45	-119.4	-119.4 0.16 (1)	10.00	L-G	-379 / 0	0.32 (1)
Q-B	-2062 / 0	0.0	0.0 0.21 (1)	5.81	K-G	-303 / 9	0.10 (1)
J-H	-2062 / 0	0.0	0.0 0.21 (1)	5.81	B-P	0 / 1935	0.44 (1)
					K-H	0 / 1935	0.44 (1)
Q-P	0 / 0	-18.2	-18.2 0.11 (4)	10.00			
P-O	0 / 1893	-18.2	-18.2 0.35 (1)	10.00			
O-N	0 / 1616	-18.2	-18.2 0.30 (1)	10.00			
N-M	0 / 1616	-18.2	-18.2 0.30 (1)	10.00			
M-L	0 / 1616	-18.2	-18.2 0.30 (1)	10.00			
L-K	0 / 1893	-18.2	-18.2 0.35 (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 (0.94")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (0.94")
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")CSI: TC=0.46/0.97 (B-C:1) , BC=0.35/0.97 (O-P:1) ,
WB=0.73/0.97 (E-N:1) , SS=0.24/1.00 (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= 0.88 (Q) (INPUT = 0.90)
JSI METAL = 0.59 (H) (INPUT = 1.00)

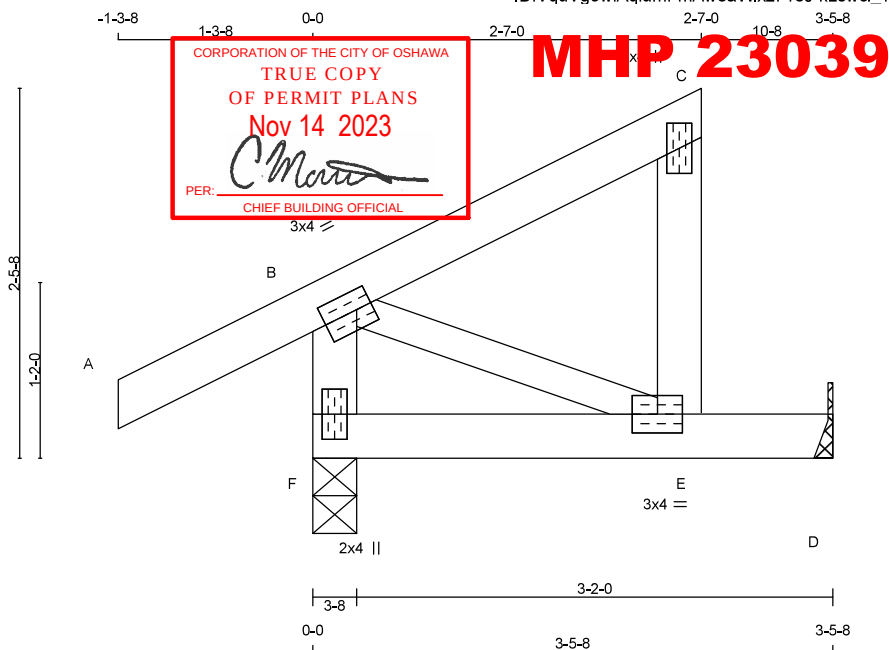
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-138	T15	4	1	GREENPARK - ZADORRA ESTATES - VILLA 12-2	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:40 2023 Page 1

ID:VquVgowiAqiumFmAweaVmz71eJ-kLswcl_?DRzUZoPKhbP19YXIGE3nj5bSFacsfPywE8r



Scale = 1:15.3

TOTAL WEIGHT = 4 X 14 = 55 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**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING****DESIGNER****BEARINGS**

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
F	387	0	387	0
D	147	0	147	0

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	268	207 / 0	0 / 0	0 / 0	0 / 0	61 / 0	0 / 0
D	104	67 / 0	0 / 0	0 / 0	0 / 0	37 / 0	0 / 0

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

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: (7)

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			
A-B	0 / 36	-119.4	-119.4	0.16 (5)	10.00	B-E	0 / 0	0.00 (1)	
B-C	0 / 0	-119.4	-119.4	0.14 (1)	10.00				
E-C	-154 / 0	0.0	0.0	0.02 (1)	7.81				
F-B	-316 / 0	0.0	0.0	0.03 (1)	7.81				
F-E	0 / 0	-18.2	-18.2	0.17 (1)	10.00				
E-D	0 / 0	-18.2	-18.2	0.17 (1)	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

(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 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")CSI: TC=0.16/0.97 (A-B-5), BC=0.17/0.97 (E-F-1),
WB=0.00/0.97 (B-E-1), SSI=0.11/1.00 (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

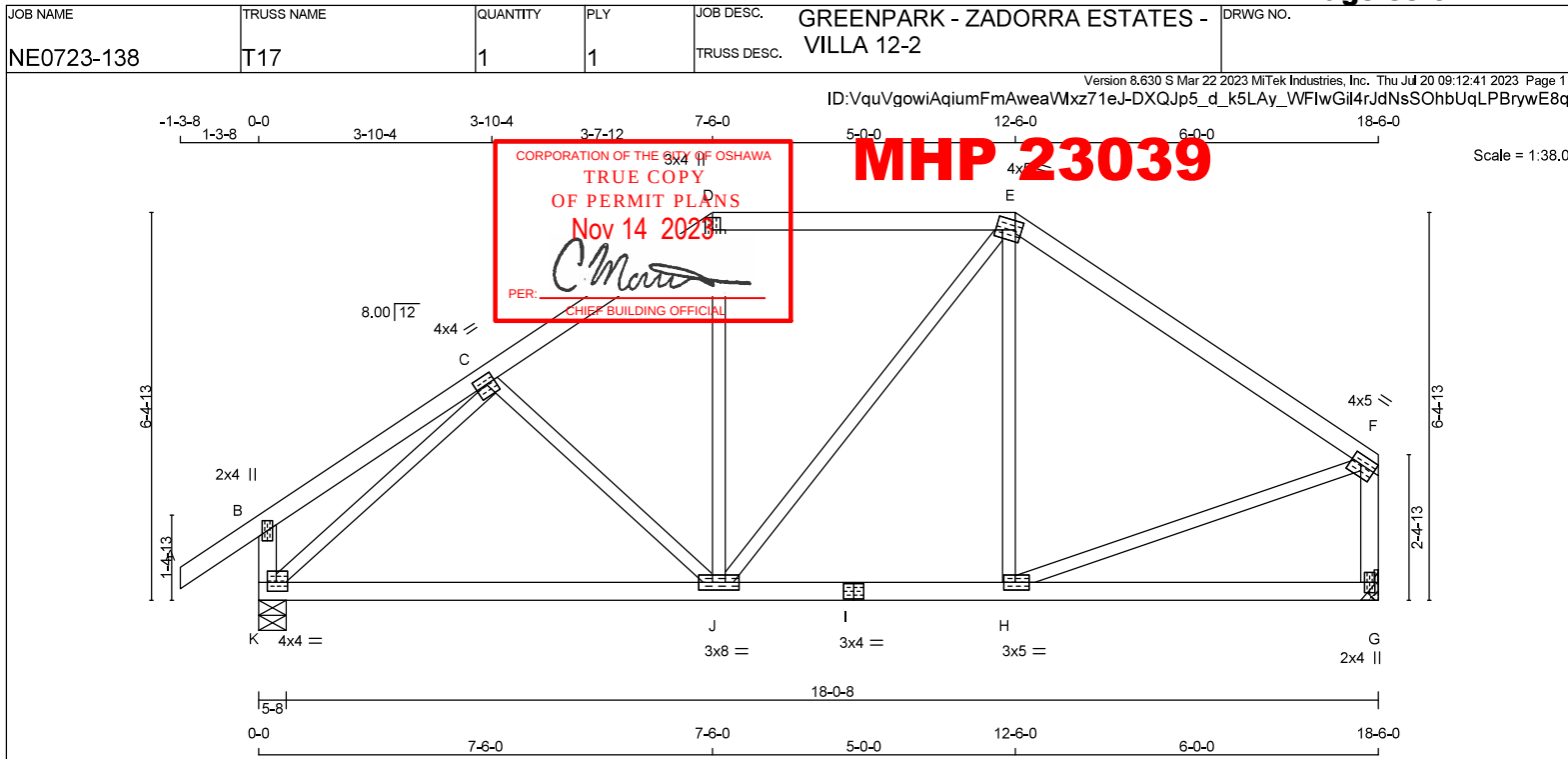
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.28 (B) (INPUT = 0.90)
JSI METAL= 0.07 (F) (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 = 79 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - F	2x4	DRY	2100F 1.8E
K - B	2x4	DRY	No.2
G - F	2x4	DRY	No.2
K - 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	TMV+p	MT20	2.0	4.0	1.75	1.75
C	TMVW+H	MT20	4.0	4.0	1.75	1.75
D	TTW+p	MT20	3.0	4.0	2.50	1.50
E	TTWV+m	MT20	4.0	5.0	1.75	1.25
F	TMVW+H	MT20	4.0	5.0	1.75	Edge
G	BMV1+p	MT20	2.0	4.0		
H	BMVW+H	MT20	3.0	5.0	1.50	2.25
I	BS+H	MT20	3.0	4.0		
J	BMVW+H	MT20	3.0	8.0		
K	BMVW1+H	MT20	4.0	4.0	1.75	1.75

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

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	HORZ	DOWN	HORZ
K 1437	0	1437	0
G 1274	0	1274	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
K	1002	740 / 0	0 / 0	0 / 0	0 / 0	263 / 0	0 / 0
G	890	644 / 0	0 / 0	0 / 0	0 / 0	246 / 0	0 / 0

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

BRACINGTOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.63 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	MAX. FACTORED	FACTORED	VERT. LOAD LC1	MAX	UNBRAC	FR-TO	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1	MAX	UNBRAC	FR-TO	MEMB.	FORCE (LBS)	MAX
FR-TO		FROM	TO	LENGTH	FR-TO			
A-B	0 / 45	-119.4	-119.4	0.16 (1)	10.00	C-J	-204 / 0	0.09 (1)
B-C	0 / 28	-119.4	-119.4	0.26 (1)	10.00	J-D	0 / 159	0.04 (4)
C-D	-1162 / 0	-119.4	-119.4	0.22 (1)	5.63	E-E	0 / 142	0.03 (1)
D-E	-944 / 0	-119.4	-119.4	0.39 (1)	5.79	H-E	-193 / 30	0.13 (1)
E-F	-1033 / 0	-119.4	-119.4	0.37 (1)	6.25	K-C	-1509 / 0	0.65 (1)
K-B	-336 / 0	0.0	0.0	0.03 (1)	7.81	H-F	0 / 907	0.20 (1)
G-F	-1226 / 0	0.0	0.0	0.16 (1)	7.16			
K-J	0 / 1091	-18.2	-18.2	0.30 (1)	10.00			
J-I	0 / 856	-18.2	-18.2	0.27 (4)	10.00			
I-H	0 / 856	-18.2	-18.2	0.27 (4)	10.00			
H-G	0 / 0	-18.2	-18.2	0.15 (4)	10.00			

DESIGN CRITERIASPECIFIED 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 (0.62")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL) = L/360 (0.62")
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")CSI: TC=0.39/0.97 (D-E:1), BC=0.30/0.97 (J-K:1),
WB=0.65/0.97 (C-K:1), SS=0.23/1.00 (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)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

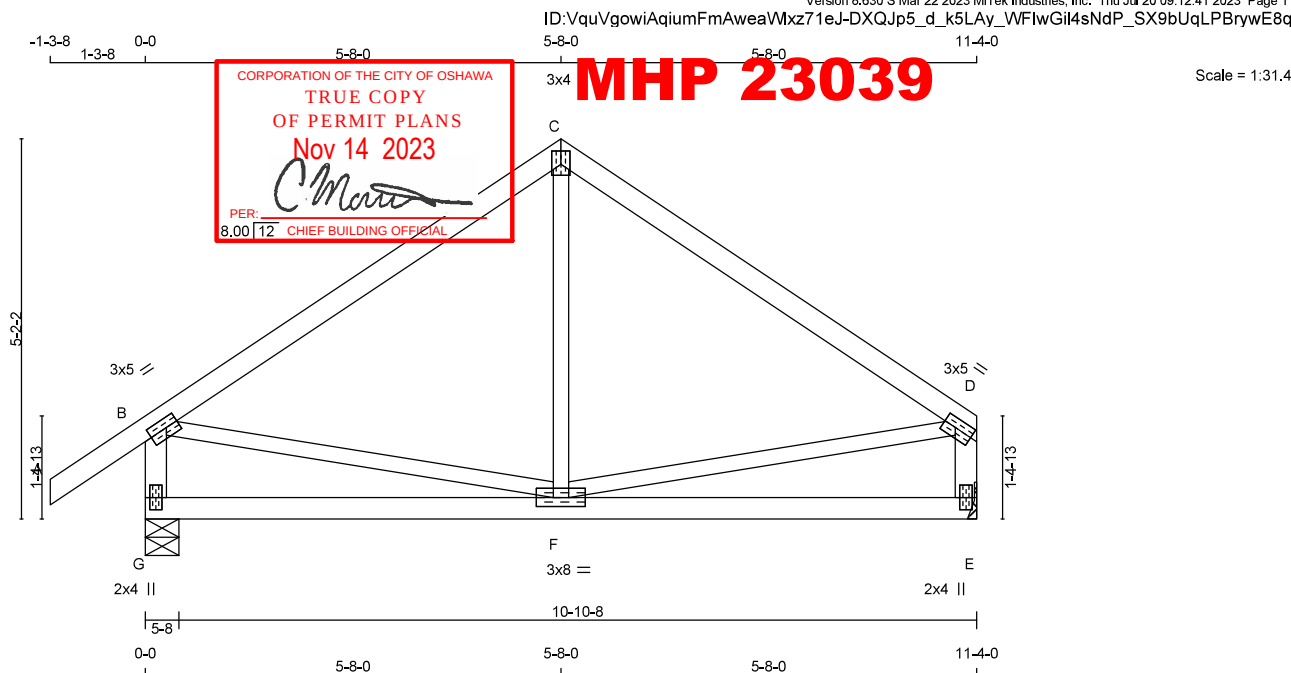
JSI GRIP= 0.89 (K) (INPUT = 0.90)
JSI METAL = 0.49 (C) (INPUT = 1.00)

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.



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - ZADORRA ESTATES -	DRWG NO.
NE0723-138	T18	2	1	TRUSS DESC.	VILLA 12-2	

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Thu Jul 20 09:12:41 2023 Page 1



Scale = 1:31.4

TOTAL WEIGHT = 2 X 45 = 91 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	2100F 1.8E
C - D	2x4	DRY	2100F 1.8E
G - B	2x4	DRY	No.2
E - D	2x4	DRY	No.2
G - E	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	3.0	5.0	1.50	2.00
C	TTW+p	MT20	3.0	4.0	2.25	1.50
D	TMVW4	MT20	3.0	5.0	1.50	2.00
E	BMV1+p	MT20	2.0	4.0		
F	BMVW4	MT20	3.0	8.0		
G	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
G	944	0	944	0	0	5-8	1-8
E	780	0	780	0	0	MECHANICAL	

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
G	657	490 / 0	0 / 0	0 / 0	0 / 0	167 / 0	0 / 0
E	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) G

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)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MAX. FR-TO LENGTH (LC)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO									
A-B	0 / 45	-119.4	-119.4	0.10 (1)	10.00	F-C	-52 / 91	0.03 (4)	
B-C	-563 / 0	-119.4	-119.4	0.33 (1)	6.25	B-F	0 / 477	0.11 (1)	
C-D	-563 / 0	-119.4	-119.4	0.33 (1)	6.25	F-D	0 / 477	0.11 (1)	
G-B	-904 / 0	0.0	0.0	0.09 (1)	7.81				
E-D	-740 / 0	0.0	0.0	0.08 (1)	7.81				
G-F	0 / 0	-18.2	-18.2	0.17 (4)	10.00				
F-E	0 / 0	-18.2	-18.2	0.17 (4)	10.00				

DESIGN CRITERIA**SPECIFIED LOADS:**

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

SPACING = 24.0 IN./C

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 (0.38")
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=0.33/0.97 (C-D:1), BC=0.17/0.97 (F-G:4),
WB=0.11/0.97 (D-F:1), SSI=0.22/1.00 (C-D:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10
SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
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= 0.24 (D) (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.

