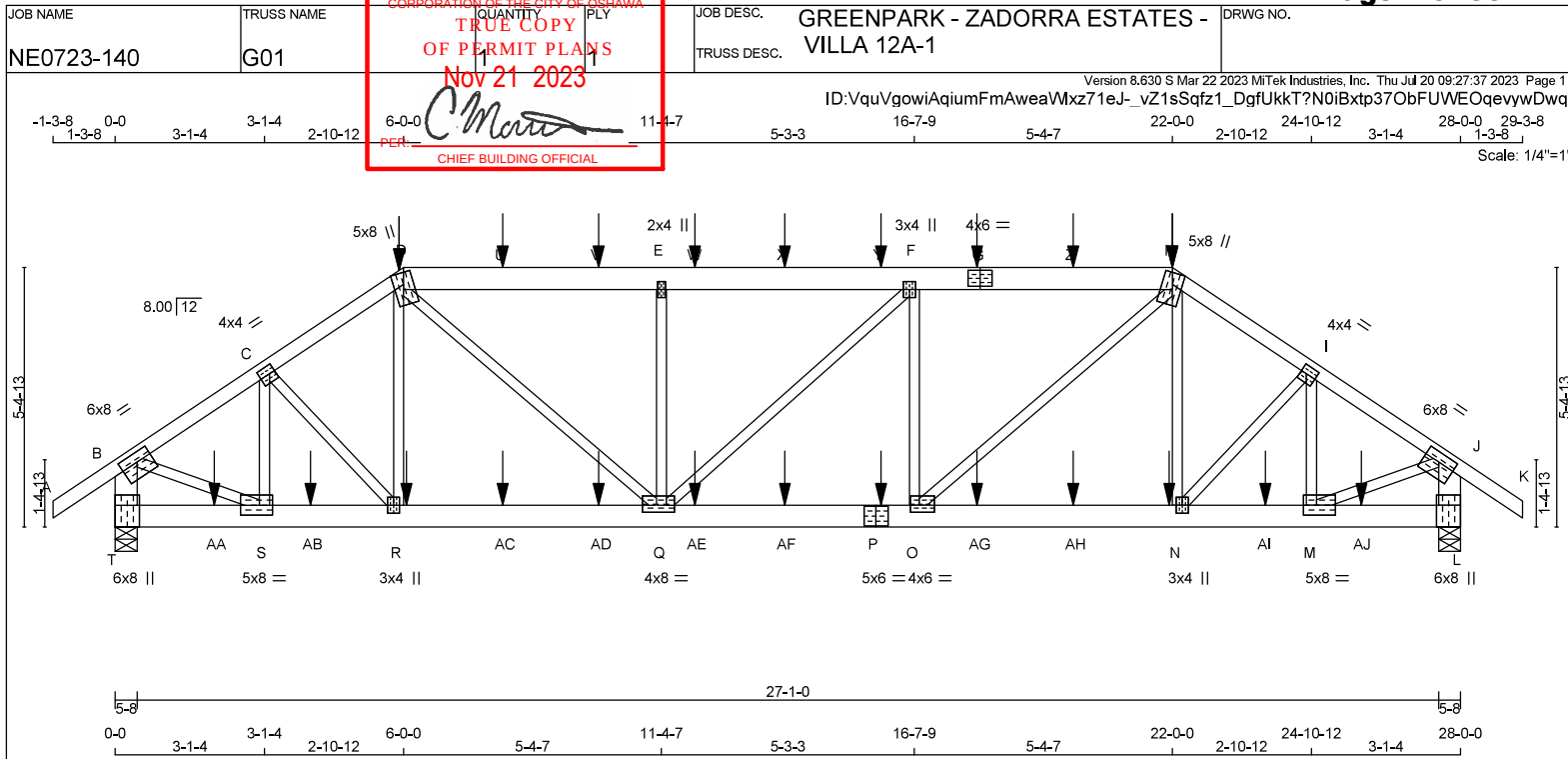




LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - G	2x6	DRY	No.2	SPF
G - H	2x4	DRY	No.2	SPF
H - K	2x4	DRY	No.2	SPF
T - B	2x6	DRY	No.2	SPF
L - J	2x6	DRY	No.2	SPF
T - P	2x6	DRY	No.2	SPF
P - L	2x6	DRY	No.2	SPF

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	6.0	8.0	2.25	3.75
C TMWW4	MT20	4.0	4.0	2.00	1.50
D TTWW+m	MT20	5.0	8.0	Edge	
E TMWW+u	MT20	2.0	4.0		
F TMWW+u	MT20	3.0	4.0		
G TS+	MT20	4.0	6.0		
H TTWW+m	MT20	5.0	8.0	Edge	
I TMWW4	MT20	4.0	4.0	2.00	1.50
J TMWW4	MT20	6.0	8.0	2.25	3.75
L BMV1+u	MT20	6.0	8.0	Edge	0.50
M BMWW4	MT20	5.0	8.0	2.50	3.25
N BMWW+u	MT20	3.0	4.0		
O BMWW4	MT20	5.0	6.0	1.75	2.25
P BS+	MT20	5.0	6.0		
Q BMWW4	MT20	4.0	8.0	1.75	3.50
R BMWW+u	MT20	3.0	4.0		
S BMWW4	MT20	5.0	8.0	2.50	3.25
T BMV1+u	MT20	6.0	8.0	5.50	

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

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

DESIGNER

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
T	3408	0	3408	0
L	3408	0	3408	0

UNFACTORED REACTIONS

1ST CASE MAX./MIN. COMPONENT REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
T	2381	1725 / 0	0 / 0	0 / 0	0 / 0	656 / 0	0 / 0
L	2381	1725 / 0	0 / 0	0 / 0	0 / 0	656 / 0	0 / 0

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

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.09 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	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)	S-C	-997 / 0	0.21 (1)	
B-C	-3656 / 0	-119.4	-119.4	0.35 (1)	C-R	0 / 507	0.13 (1)	
C-D	-4086 / 0	-119.4	-119.4	0.39 (1)	R-D	-153 / 86	0.06 (1)	
D-U	-4798 / 0	-119.4	-119.4	0.54 (1)	D-Q	0 / 1902	0.47 (1)	
U-V	-4798 / 0	-119.4	-119.4	0.54 (1)	Q-E	-1131 / 0	0.44 (1)	
V-E	-4798 / 0	-119.4	-119.4	0.54 (1)	Q-F	-18 / 0	0.02 (1)	
E-W	-4797 / 0	-119.4	-119.4	0.54 (1)	Q-F	-1140 / 0	0.45 (1)	
W-X	-4797 / 0	-119.4	-119.4	0.54 (1)	O-H	0 / 1924	0.48 (1)	
X-Y	-4797 / 0	-119.4	-119.4	0.54 (1)	N-H	-162 / 85	0.07 (1)	
Y-F	-4797 / 0	-119.4	-119.4	0.54 (1)	N-I	0 / 503	0.12 (1)	
F-G	-4809 / 0	-119.4	-119.4	0.54 (1)	M-I	-992 / 0	0.21 (1)	
G-Z	-4809 / 0	-119.4	-119.4	0.54 (1)	B-S	0 / 3211	0.79 (1)	
Z-H	-4809 / 0	-119.4	-119.4	0.54 (1)	M-J	0 / 3211	0.79 (1)	
H-I	-4083 / 0	-119.4	-119.4	0.39 (1)				
I-J	-3656 / 0	-119.4	-119.4	0.35 (1)				
J-K	0 / 45	-119.4	-119.4	0.18 (1)				
T-B	-3336 / 0	0.0	0.0	0.24 (1)				
L-J	-3336 / 0	0.0	0.0	0.24 (1)				
T-AA	0 / 0	-18.2	-18.2	0.08 (1)				
AA-S	0 / 0	-18.2	-18.2	0.08 (1)				
S-AB	0 / 3057	-18.2	-18.2	0.48 (1)				
AB-R	0 / 3057	-18.2	-18.2	0.48 (1)				
R-AC	0 / 3401	-18.2	-18.2	0.50 (1)				
AC-AD	0 / 3401	-18.2	-18.2	0.50 (1)				
AD-Q	0 / 3401	-18.2	-18.2	0.50 (1)				
Q-AE	0 / 4811	-18.2	-18.2	0.71 (1)				
AE-AF	0 / 4811	-18.2	-18.2	0.71 (1)				
AF-P	0 / 4811	-18.2	-18.2	0.71 (1)				
P-O	0 / 4811	-18.2	-18.2	0.71 (1)				
O-AG	0 / 3399	-18.2	-18.2	0.49 (1)				
AG-AH	0 / 3399	-18.2	-18.2	0.49 (1)				
AH-N	0 / 3399	-18.2	-18.2	0.49 (1)				
N-AI	0 / 3057	-18.2	-18.2	0.48 (1)				
AI-M	0 / 3057	-18.2	-18.2	0.48 (1)				
M-AJ	0 / 0	-18.2	-18.2	0.08 (1)				
A-J	0 / 0	-18.2	-18.2	0.08 (1)				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	6-0-0	-423	-423		FRONT	VERT	TOTAL		C1
G	17-11-4	-102	-102		FRONT	VERT	TOTAL		C1
H	22-0-0	-423	-423		FRONT	VERT	TOTAL		C1
N	21-11-4	-22	-22		FRONT	VERT	TOTAL		C1
P	15-11-4	-22	-22		FRONT	VERT	TOTAL		C1
R	6-0-12	-22	-22		FRONT	VERT	TOTAL		C1
U	8-0-12	-102	-102		FRONT	VERT	TOTAL		C1
V	10-0-12	-102	-102		FRONT	VERT	TOTAL		C1
W	12-0-12	-102	-102		FRONT	VERT	TOTAL		C1
X	13-11-4	-102	-102		FRONT	VERT	TOTAL		C1
Y	15-11-4	-102	-102		FRONT	VERT	TOTAL		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
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL	LOAD	=	48.1	PSF

SPACING = 24.0 IN. C/C

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

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF 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 (0.93")
CALCULATED VERT. DEFL.(LL) = L/999 (0.16")
ALLOWABLE DEFL.(TL) = L/360 (0.93")
CALCULATED VERT. DEFL.(TL) = L/999 (0.28")

CSI: TC=0.54/0.97 (F-H:1), BC=0.71/0.97 (O-Q:1),
WB=0.79/0.97 (J-M:1), SSI=0.40/1.00 (F-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (Q) (INPUT = 0.90)
JSI METAL= 0.86 (P) (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
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IN THE DESIGN OF THIS COMPONENT.



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0723-140	G01	1	1	GREENPARK - ZADORRA ESTATES - VILLA 12A-1	

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PER: **CH SPECIFIED CONCENTRATED LOADS (LBS)**

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
Z	19-11-4	-102	-102	—	FRONT	VERT	TOTAL	—	C1
AA	2-0-12	-21	-21	—	FRONT	VERT	TOTAL	—	C1
AB	4-0-12	-22	-22	—	FRONT	VERT	TOTAL	—	C1
AC	8-0-12	-22	-22	—	FRONT	VERT	TOTAL	—	C1
AD	10-0-12	-22	-22	—	FRONT	VERT	TOTAL	—	C1
AE	12-0-12	-22	-22	—	FRONT	VERT	TOTAL	—	C1
AF	13-11-4	-22	-22	—	FRONT	VERT	TOTAL	—	C1
AG	17-11-4	-22	-22	—	FRONT	VERT	TOTAL	—	C1
AH	19-11-4	-22	-22	—	FRONT	VERT	TOTAL	—	C1
AI	23-11-4	-22	-22	—	FRONT	VERT	TOTAL	—	C1
AJ	25-11-4	-21	-21	—	FRONT	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

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



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.
NE0723-140	G02	1	1	GREENPARK - ZADORRA ESTATES - VILLA 12A-1	

CORPORATION OF THE CITY OF OSHAWA

TRUE COPY
OF PERMIT PLANS

Nov 21 2023

PER: 

CHIEF BUILDING OFFICIAL

CONNECTION REQUIREMENTS

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

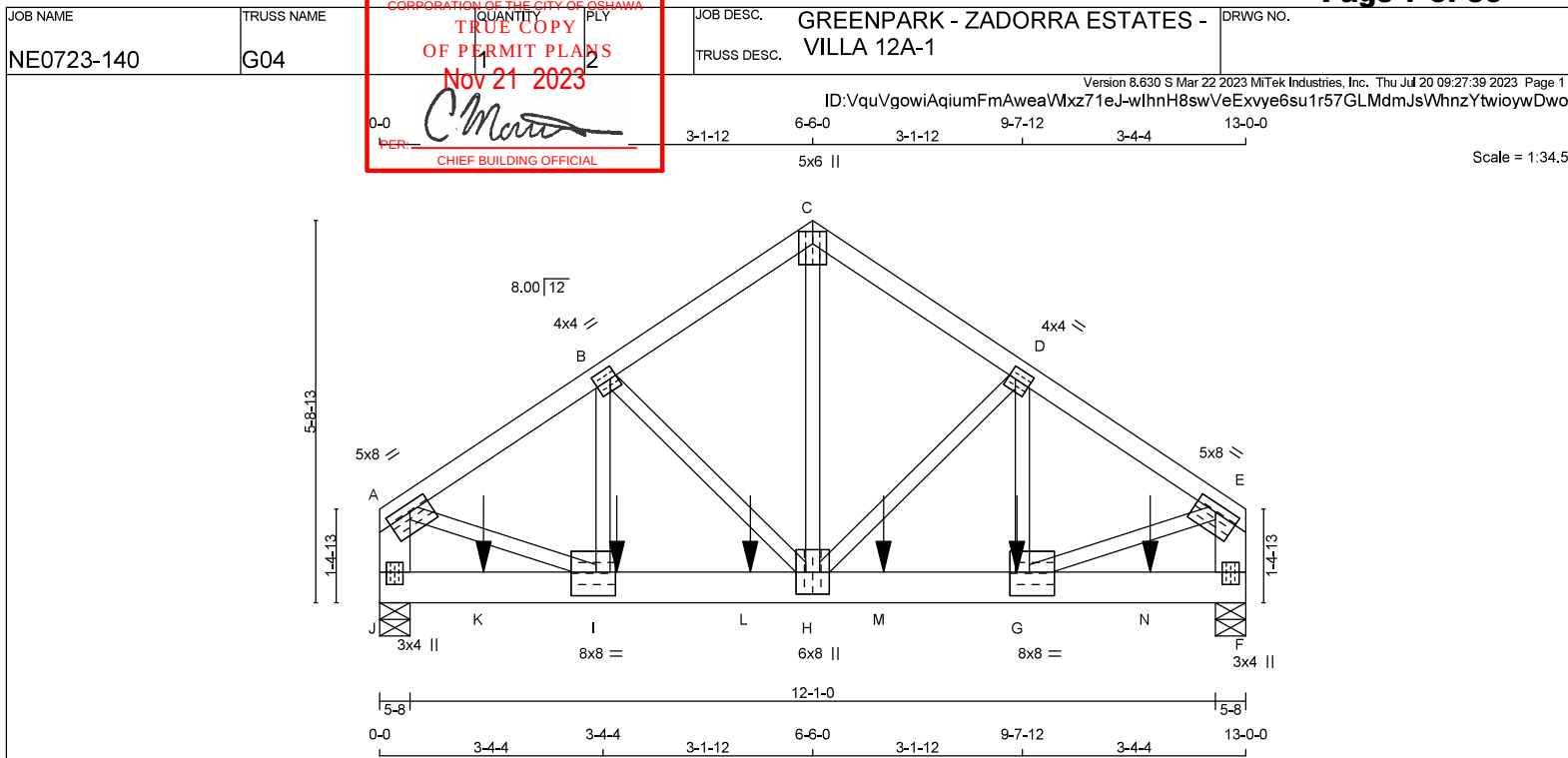
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IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 2 X 65 = 130 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 EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C	1	12
C-E	1	12
J-A	2	12
F-E	2	12
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
J-F	2	12
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	5.0	8.0	1.50	3.75
B	TMWW4	MT20	4.0	4.0	2.00	1.25
C	TTW+p	MT20	5.0	6.0	2.25	2.50

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
J	6586	0	6586	0
F	6660	0	6660	0

UNFACTORED REACTIONS**1ST CASE MAX./MIN. COMPONENT REACTIONS**

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
J	4597	3358 / 0	0 / 0	0 / 0	0 / 0	1239 / 0	0 / 0
F	4649	3395 / 0	0 / 0	0 / 0	0 / 0	1253 / 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 = 3.52 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	MEMB.	MAX. FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM	TO		FR-TO		
A-B	-6813 / 0	-119.4	-119.4	0.29 (1)	3.52	H-C	0 / 5530
B-C	-5303 / 0	-119.4	-119.4	0.20 (1)	4.03	H-D	-1832 / 0
C-D	-5303 / 0	-119.4	-119.4	0.20 (1)	4.03	G-D	0 / 1745
D-E	-6822 / 0	-119.4	-119.4	0.29 (1)	3.52	B-H	-1822 / 0
J-A	-5656 / 0	0.0	0.0	0.20 (1)	6.10	I-B	0 / 1734
F-E	-5662 / 0	0.0	0.0	0.20 (1)	6.10	A-I	0 / 5921
J-K	0 / 0	-18.2	-18.2	0.53 (1)	10.00	G-E	0 / 5928
K-I	0 / 0	-18.2	-18.2	0.53 (1)	10.00		
I-L	0 / 5676	-18.2	-18.2	0.66 (1)	10.00		
L-H	0 / 5676	-18.2	-18.2	0.66 (1)	10.00		
H-M	0 / 5683	-18.2	-18.2	0.66 (1)	10.00		
M-G	0 / 5683	-18.2	-18.2	0.66 (1)	10.00		
G-N	0 / 0	-18.2	-18.2	0.52 (1)	10.00		
N-F	0 / 0	-18.2	-18.2	0.52 (1)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	9-6-12	-1332	-1332	—	BACK	VERT	TOTAL	—	C1
I	3-6-12	-1332	-1332	—	BACK	VERT	TOTAL	—	C1
K	1-6-12	-1332	-1332	—	BACK	VERT	TOTAL	—	C1
L	5-6-12	-1332	-1332	—	BACK	VERT	TOTAL	—	C1
M	7-6-12	-1332	-1332	—	BACK	VERT	TOTAL	—	C1
N	11-6-12	-1332	-1332	—	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 (0.06")
ALLOWABLE DEFL.(TL) = L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")CSI: TC=0.29/0.97 (D-E-1), BC=0.66/0.97 (G-H-1),
WB=0.73/0.97 (E-G-1), SS=0.50/1.00 (H-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)
MAX	MIN	MAX	MIN
MT20	650	371	1747

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (G) (INPUT = 0.90)
JSI METAL= 0.62 (A) (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.
NE0723-140	G04	1	2	GREENPARK - ZADORRA ESTATES - VILLA 12A-1	

CORPORATION OF THE CITY OF OSHAWA

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PER:

CHIEF BUILDING OFFICIAL

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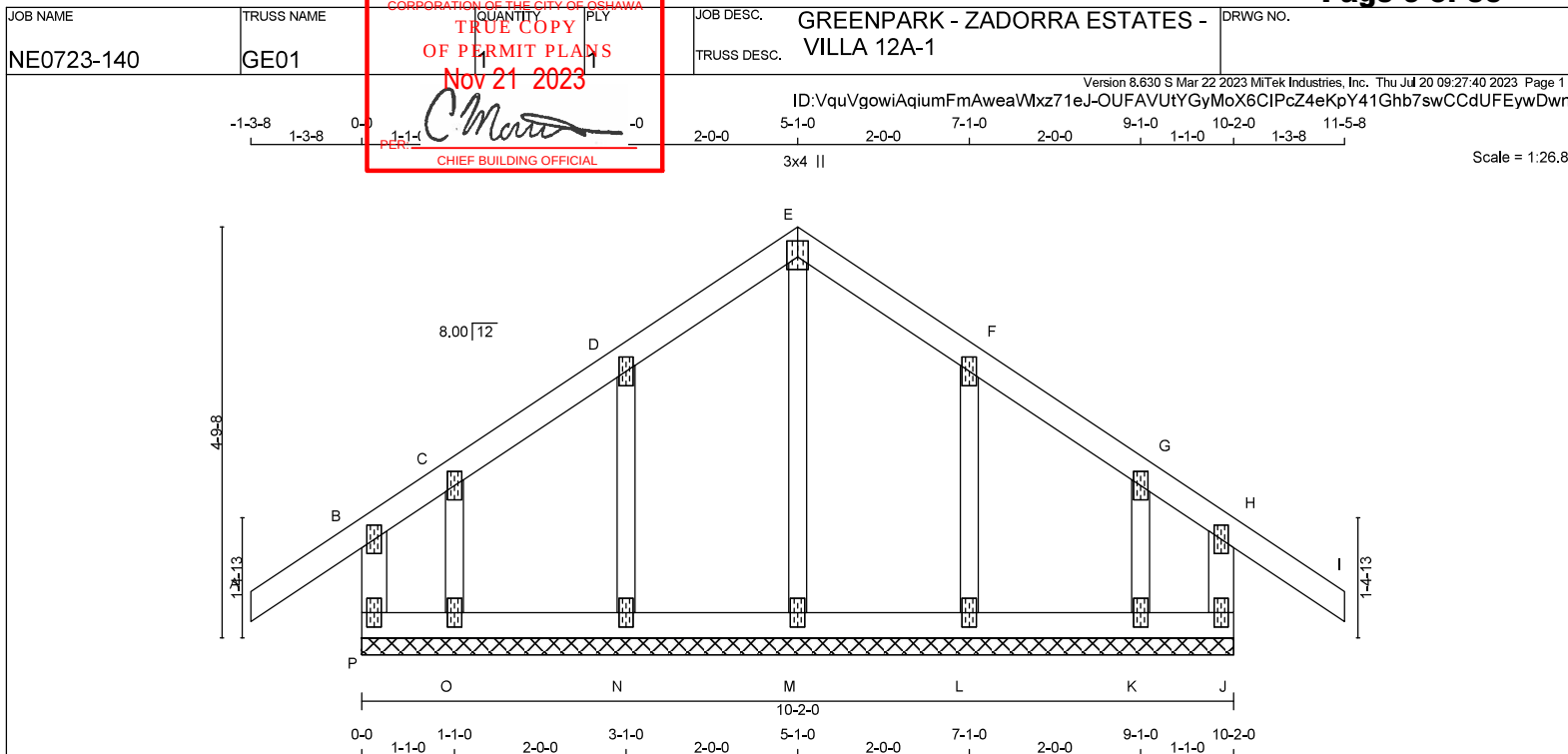
PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
D	TMWW-t	MT20	4.0	4.0	2.00	1.25
E	TMWW-t	MT20	5.0	8.0	1.50	3.75
F	BMV1+p	MT20	3.0	4.0	2.25	1.50
G	BMWW-t	MT20	8.0	8.0	4.25	3.50
H	BMWW-t	MT20	6.0	8.0		
I	BMWW-t	MT20	8.0	8.0	4.25	3.50
J	BMV1+p	MT20	3.0	4.0	2.25	1.50



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IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 42 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	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 CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
P-B	-254 / 0	0.0 0.0 0.06 (1)	7.81	M-E	-299 / 0	0.10 (1)	
A-B	0 / 45	-119.4 -119.4 0.16 (1)	10.00	N-D	-259 / 0	0.05 (1)	
B-C	0 / 11	-119.4 -119.4 0.10 (1)	10.00	O-C	-109 / 0	0.02 (1)	
C-D	0 / 54	-119.4 -119.4 0.07 (1)	10.00	L-F	-259 / 0	0.05 (1)	
D-E	0 / 52	-119.4 -119.4 0.07 (1)	10.00	K-G	-109 / 0	0.02 (1)	
E-F	0 / 52	-119.4 -119.4 0.07 (1)	10.00				
F-G	0 / 54	-119.4 -119.4 0.07 (1)	10.00				
G-H	0 / 11	-119.4 -119.4 0.10 (1)	10.00				
H-I	0 / 45	-119.4 -119.4 0.16 (1)	10.00				
J-H	-254 / 0	0.0 0.0 0.06 (1)	7.81				
P-O	-34 / 0	-18.2 -18.2 0.01 (4)	6.25				
O-N	-39 / 0	-18.2 -18.2 0.02 (4)	6.25				
N-M	-45 / 0	-18.2 -18.2 0.02 (4)	6.25				
M-L	-45 / 0	-18.2 -18.2 0.02 (4)	6.25				
L-K	-39 / 0	-18.2 -18.2 0.02 (4)	6.25				
K-J	-34 / 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 (H4:1), BC=0.02/0.97 (M-N:4),
WB=0.10/0.97 (E-M:1), SSI=0.11/1.00 (H4:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

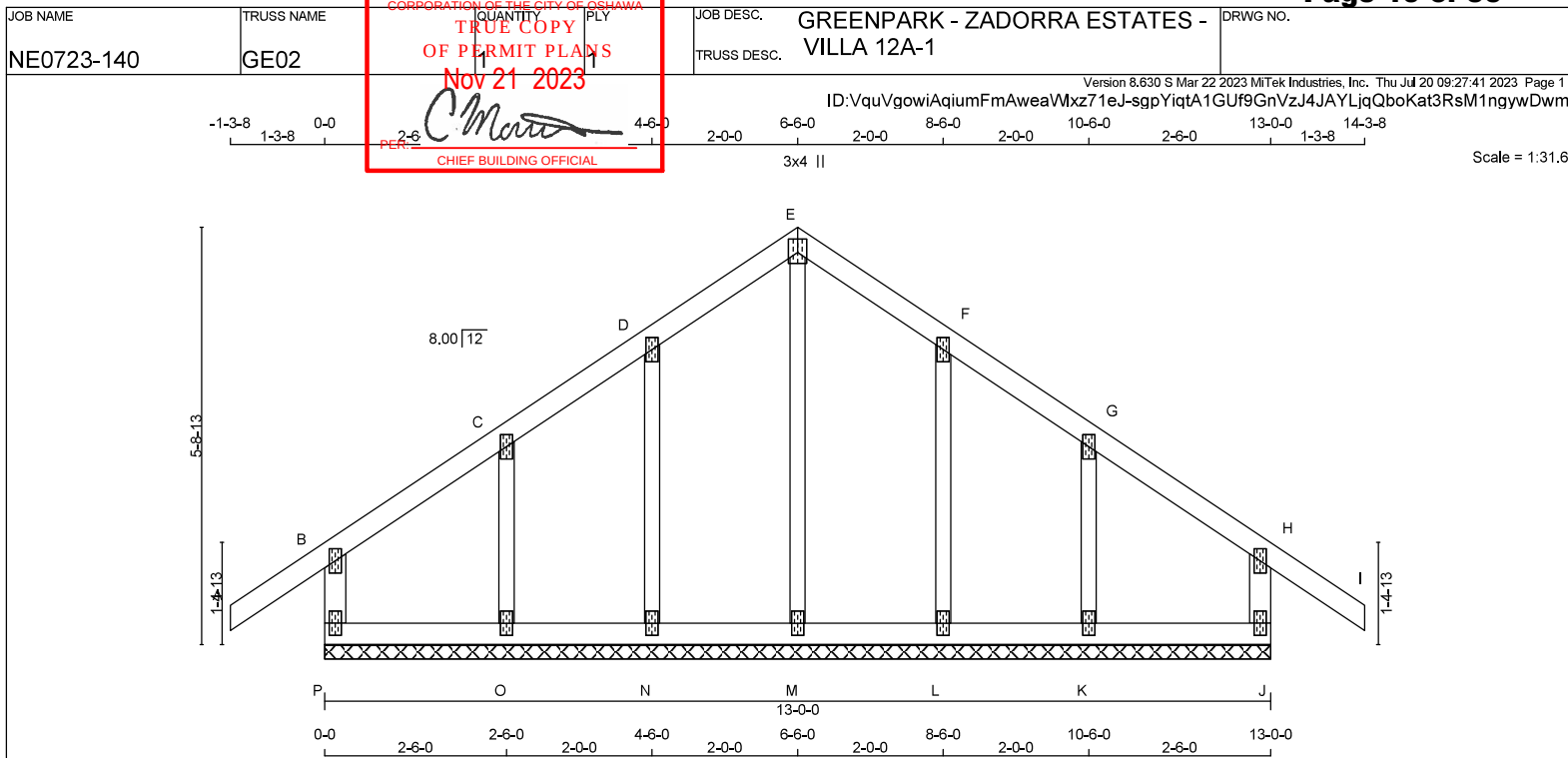
JSI GRIP= 0.19 (E) (INPUT = 0.90)

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.



**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 2'-0" O.C.

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 = 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. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
P-B	-334 / 0	0.0 0.0 0.02 (1)	7.81	M-E	-232 / 0	0.11 (1)	
A-B	0 / 45	-119.4 -119.4 0.16 (1)	10.00	N-D	-235 / 0	0.07 (1)	
B-C	-37 / 0	-119.4 -119.4 0.09 (1)	6.25	O-C	-256 / 0	0.05 (1)	
C-D	-26 / 0	-119.4 -119.4 0.06 (1)	6.25	L-F	-235 / 0	0.07 (1)	
D-E	-17 / 0	-119.4 -119.4 0.06 (1)	6.25	K-G	-256 / 0	0.05 (1)	
E-F	-17 / 0	-119.4 -119.4 0.06 (1)	6.25				
F-G	-26 / 0	-119.4 -119.4 0.06 (1)	6.25				
G-H	-37 / 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	-334 / 0	0.0 0.0 0.02 (1)	7.81				
P-O	0 / 27	-18.2 -18.2 0.02 (4)	10.00				
O-N	0 / 19	-18.2 -18.2 0.02 (4)	10.00				
N-M	0 / 15	-18.2 -18.2 0.02 (4)	10.00				
M-L	0 / 15	-18.2 -18.2 0.02 (4)	10.00				
L-K	0 / 19	-18.2 -18.2 0.02 (4)	10.00				
K-J	0 / 27	-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 (H-K:4),
WB=0.11/0.97 (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)
	MAX MIN	MAX MIN	MAX MIN
MT20	650 371	1747 788	1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

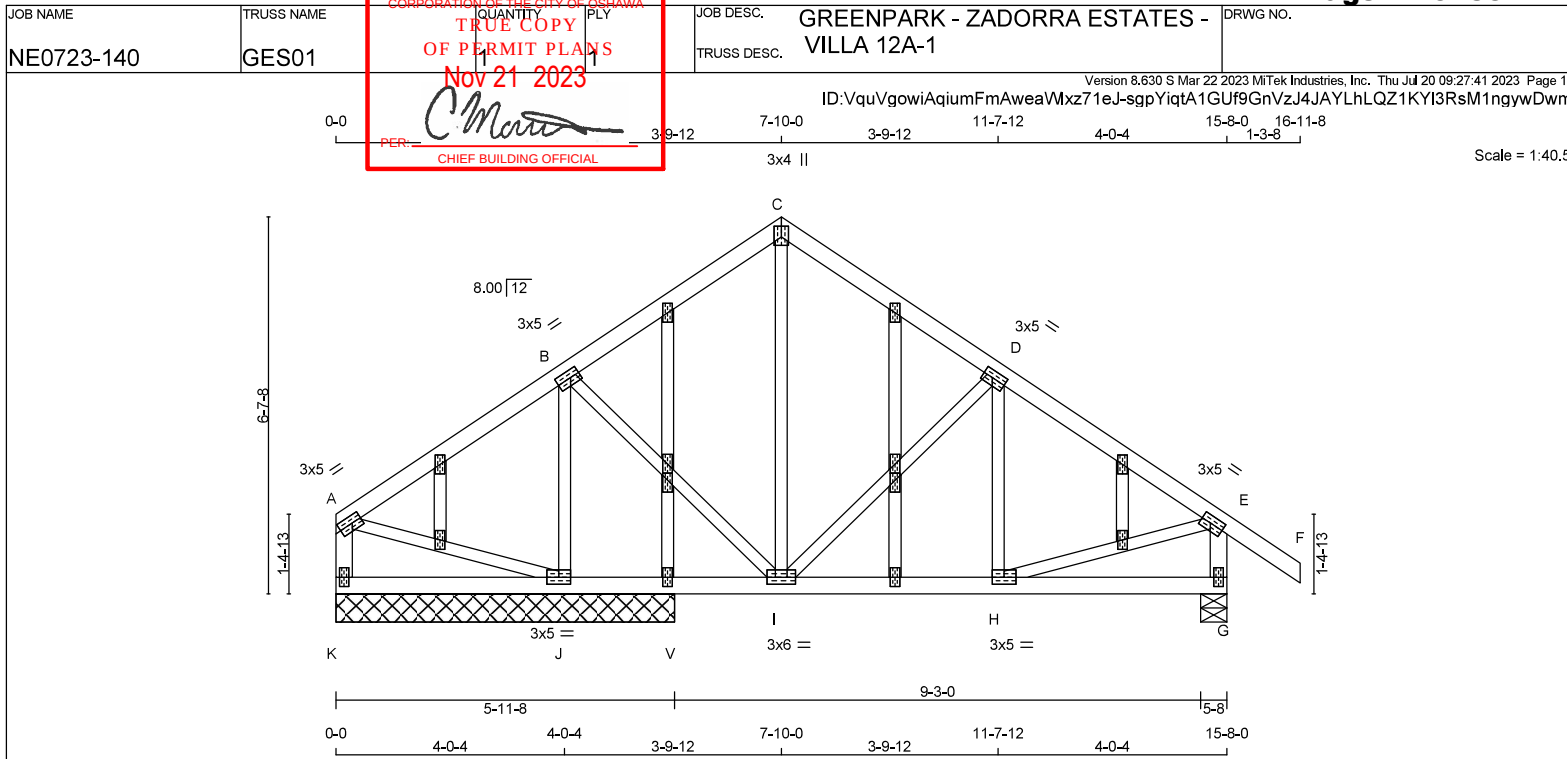
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.23 (H) (INPUT = 0.90)
JSI METAL= 0.19 (B) (INPUT = 1.00)



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





LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
A - C	2x4	DRY No.2
C - F	2x4	DRY No.2
K - A	2x4	DRY No.2
G - E	2x4	DRY No.2
K - G	2x4	DRY No.2
ALL WEBS EXCEPT	2x3	DRY No.2
ALL GABLE WEBS	2x3	DRY No.2
DRY: SEASONED LUMBER.		
GABLE STUDS SPACED AT	2-0-0	OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-H	MT20	3.0	5.0	1.50	2.00
B	TMVW-H	MT20	3.0	5.0	1.50	2.00
C	TTW+p	MT20	3.0	4.0	2.25	1.50
D	TMVW-H	MT20	3.0	5.0	1.50	2.00
E	TMVW-H	MT20	3.0	5.0	1.50	2.00
G	BMV1+p	MT20	2.0	4.0		
H	BMVW-H	MT20	3.0	5.0		
I	BMVW-H	MT20	3.0	6.0		
J	BMVW1-t	MT20	3.0	5.0		
K	BMV1+p	MT20	2.0	4.0		
L	NP+w	MT20	2.0	4.0	1.50	1.00
L, M, N, O, P, Q, R, S, T, U	NP+w	MT20	2.0	4.0		
S	NP+w	MT20	2.0	4.0	1.50	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
K	284	0	5-11-8
G	957	0	5-8
J	1012	0	5-11-8
V	68	0	5-11-8

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM.LIVE WIND DEAD SOIL
K	197 151 / 0 0 / 0 0 / 0 46 / 0 0 / 0
G	666 500 / 0 0 / 0 0 / 0 166 / 0 0 / 0
J	708 505 / 0 0 / 0 0 / 0 203 / 0 0 / 0
V	48 30 / 0 0 / 0 0 / 0 18 / 0 0 / 0

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

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 LC1 (PLF)	MAX. UNBRACED LENGTH FR-TO (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH FR-TO (LC)	
FR-B	-58 / 0	-119.4	-119.4 0.31 (1)	6.25	I-C	0 / 81	0.02 (4)
B-C	-411 / 0	-119.4	-119.4 0.32 (1)	6.25	I-D	-427 / 0	0.20 (1)
C-D	-409 / 0	-119.4	-119.4 0.31 (1)	6.25	H-D	-78 / 51	0.02 (1)
D-E	-712 / 0	-119.4	-119.4 0.32 (1)	6.25	B-I	0 / 336	0.08 (1)
E-F	0 / 45	-119.4	-119.4 0.16 (1)	10.00	J-B	-980 / 0	0.25 (1)
K-A	-253 / 0	0.0	0.0 0.03 (1)	7.81	A-J	0 / 77	0.02 (1)
G-E	-927 / 0	0.0	0.0 0.10 (1)	7.81	H-E	0 / 640	0.14 (1)
K-J	0 / 0	-18.2	-18.2 0.06 (4)	10.00			
J-V	0 / 75	-18.2	-18.2 0.06 (4)	10.00			
V-I	0 / 75	-18.2	-18.2 0.06 (1)	10.00			
I-H	0 / 618	-18.2	-18.2 0.14 (1)	10.00			
H-G	0 / 0	-18.2	-18.2 0.07 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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 (0.32")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.32")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.32/0.97 (B-C:1), BC=0.14/0.97 (H-I:1), WB=0.25/0.97 (B-J:1), SSI=0.19/1.00 (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

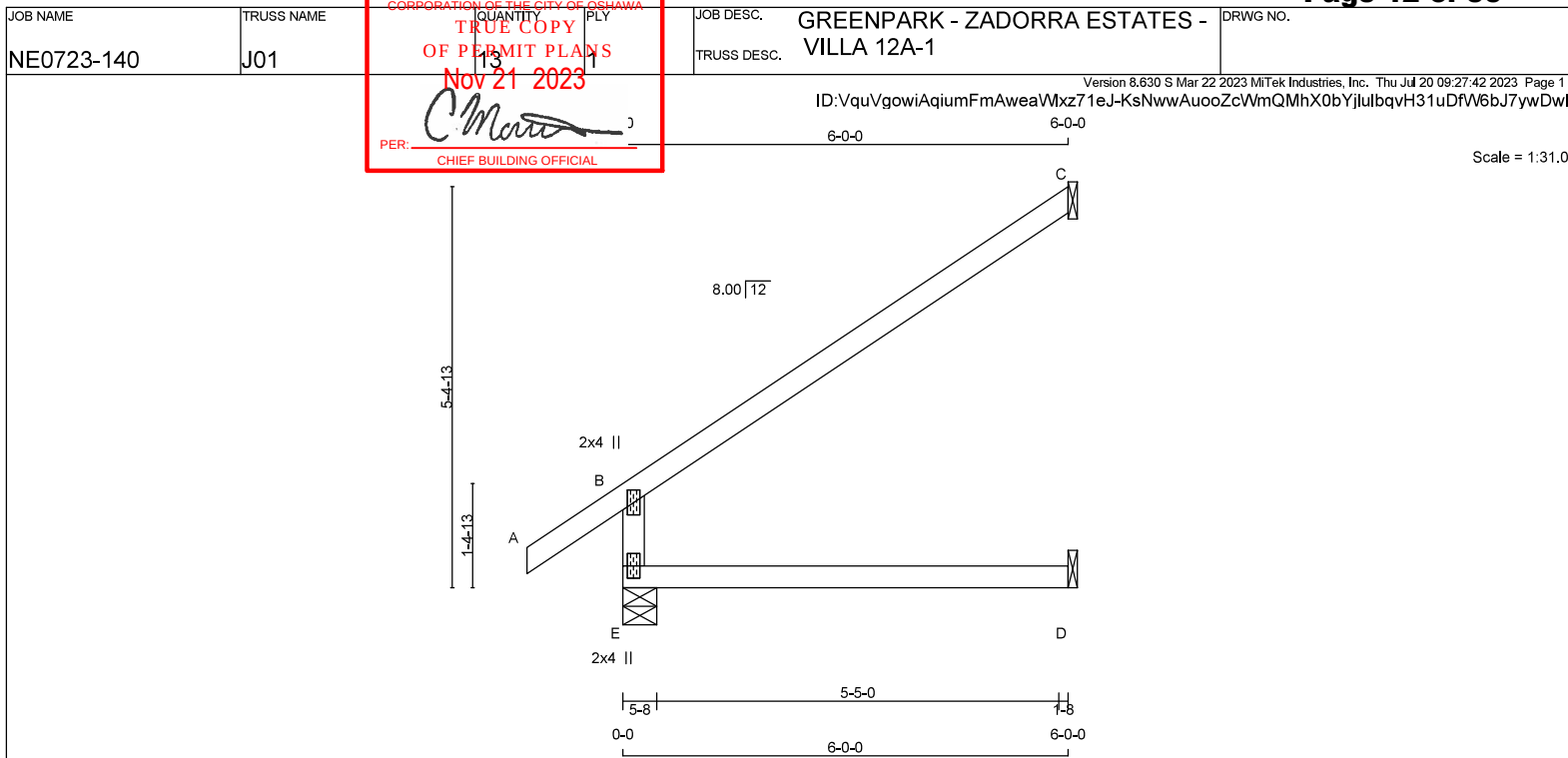
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (B) (INPUT = 0.90)
JSI METAL = 0.27 (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.



**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	675	0	675	0	5-8	1-8
C	269	0	269	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	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, C

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)
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
(PL)	(PSI)	(PL)	(PL)
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

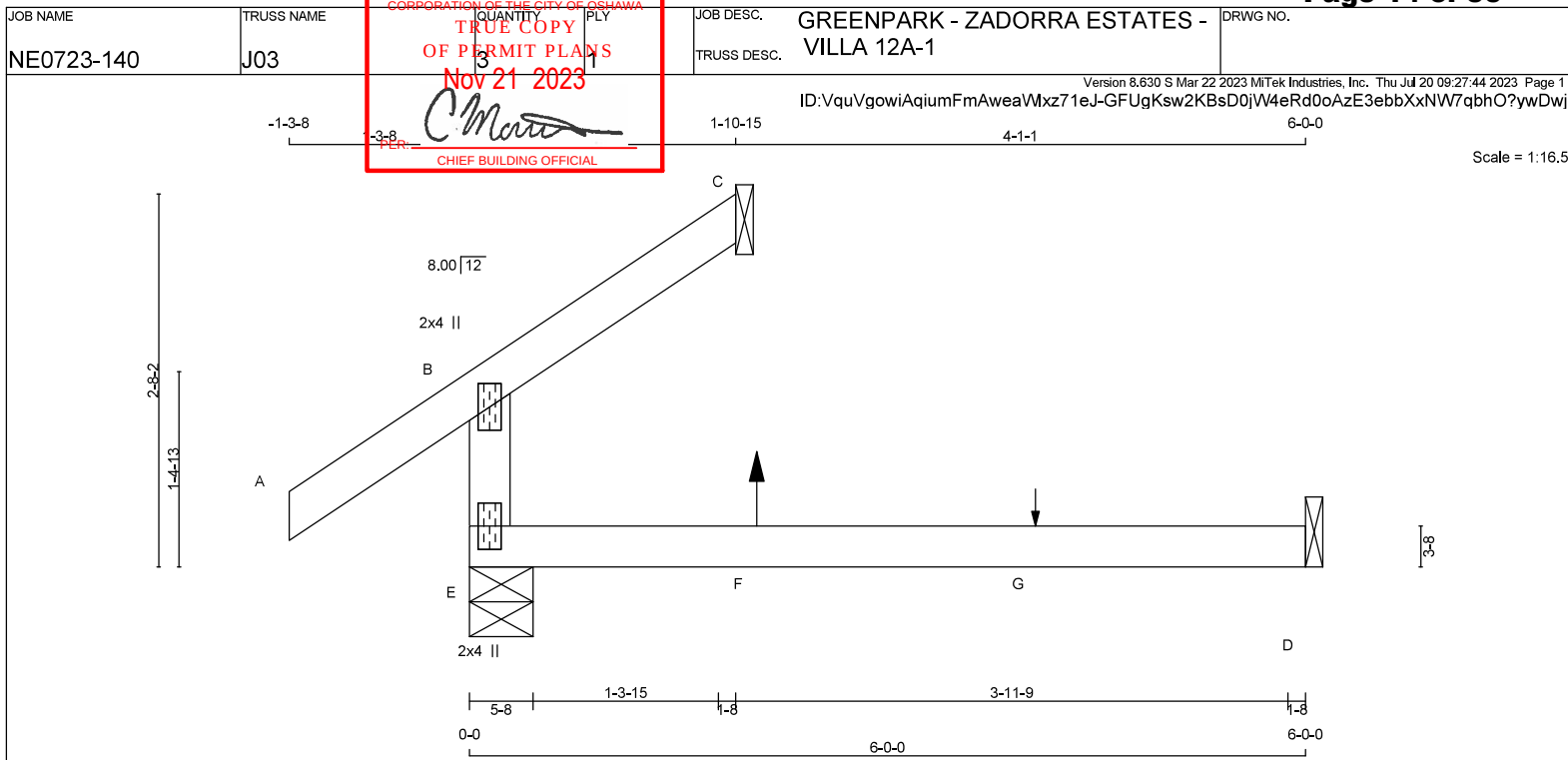
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.38 (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.





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**

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

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LBS)	MAX. HORZ. LOAD (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. HORZ. LOAD (LBS)
FR-TO					FR-TO		
E-B	-311 / 0	0.0	0.0	0.10 (4)			
A-B	0 / 45	-119.4	-119.4	0.16 (1)			
B-C	-18 / 10	-119.4	-119.4	0.09 (1)			
E-F	0 / 0	-18.2	-18.2	0.14 (4)			
F-G	0 / 0	-18.2	-18.2	0.14 (4)			
G-D	0 / 0	-18.2	-18.2	0.14 (4)			

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, 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 (0.01")

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
			1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

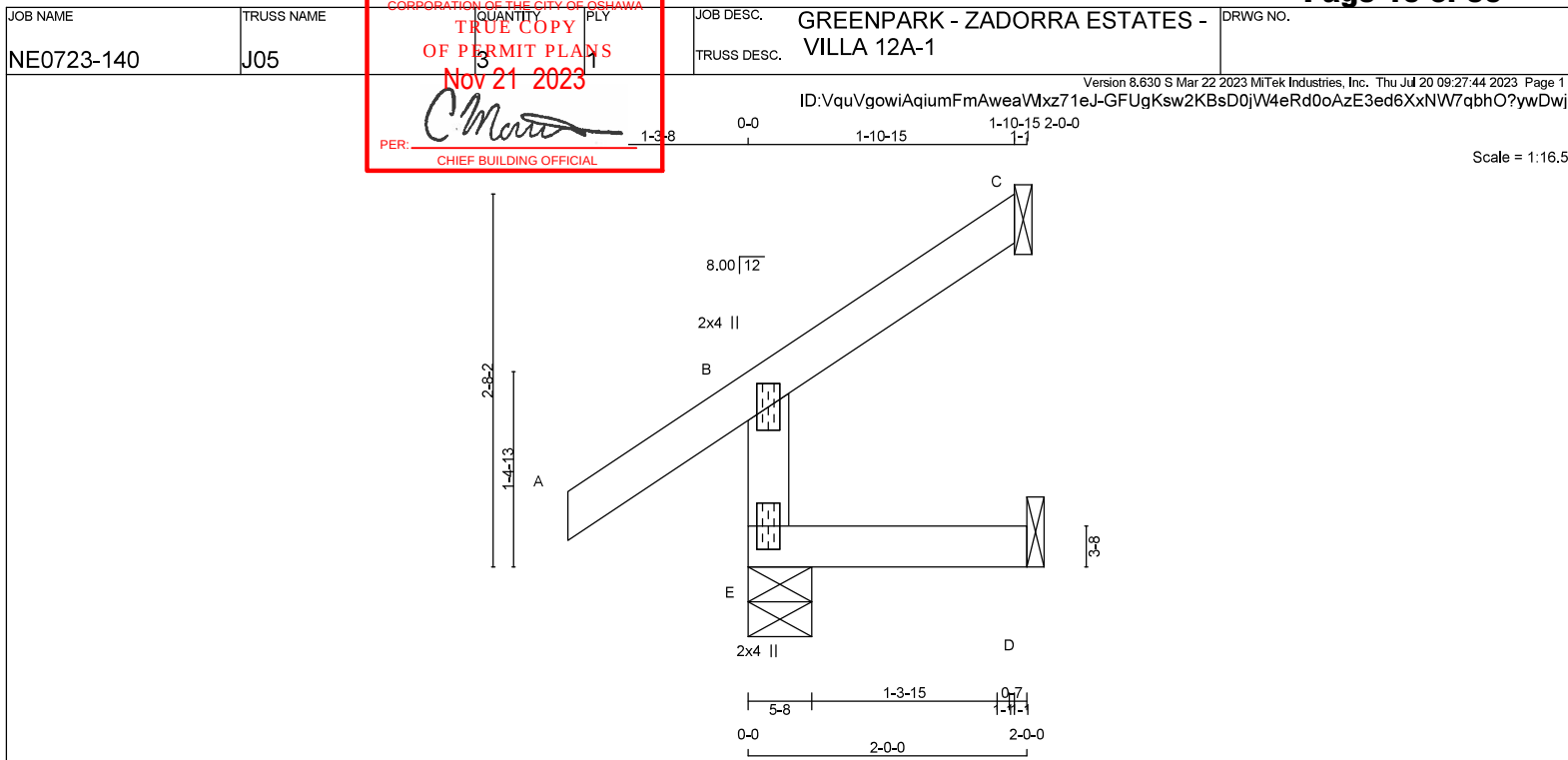
JSI GRIP= 0.19 (B) (INPUT = 0.90)

JSI METAL= 0.16 (B) (INPUT = 1.00)



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 = 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.

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 DOWN	FACTORED GROSS REACTION UP	MAXIMUM FACTORED GROSS REACTION UP	INPUT BRG IN-SX	REQD BRG IN-SX
E	355	0	355	0	0	0	5-8	1-8
C	66	0	66	0	-30	-30	1-8	1-8
D	8	0	18	0	-4	-4	1-8	1-8

SEE MITTEK 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 CASE COMBINED	MAX. SNOW	MIN. SNOW	MAX. LIVE	MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	245	196 / 0	0 / 0	0 / 0	0 / 0	0 / 0	48 / 0	0 / 0	0 / 0
C	45	38 / -24	0 / 0	0 / 0	0 / 0	0 / 0	8 / 0	0 / 0	0 / 0
D	7	0 / -10	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0	0 / 0

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

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LC1)	MAX. HORIZ. LOAD (LC2)	MEMB. UNBRACED LENGTH FR-TO	WEBS	MAX. FACTORED FORCE (LBS)	MAX. HORIZ. LOAD (LC2)
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 LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")

ALLOWABLE DEFL.(TL)= L/360 (0.19")

CALCULATED VERT. DEFL.(TL) = L/ 999 (0.00")

CSI: TC=0.16/0.97 (A-B:1) , BC=0.05/0.97 (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
(PL)	(PSI)	(PL)	(PL)
MT20	650	371	1747
		788	1987
		1873	

PLATE PLACEMENT TOL. = 0.250 inches

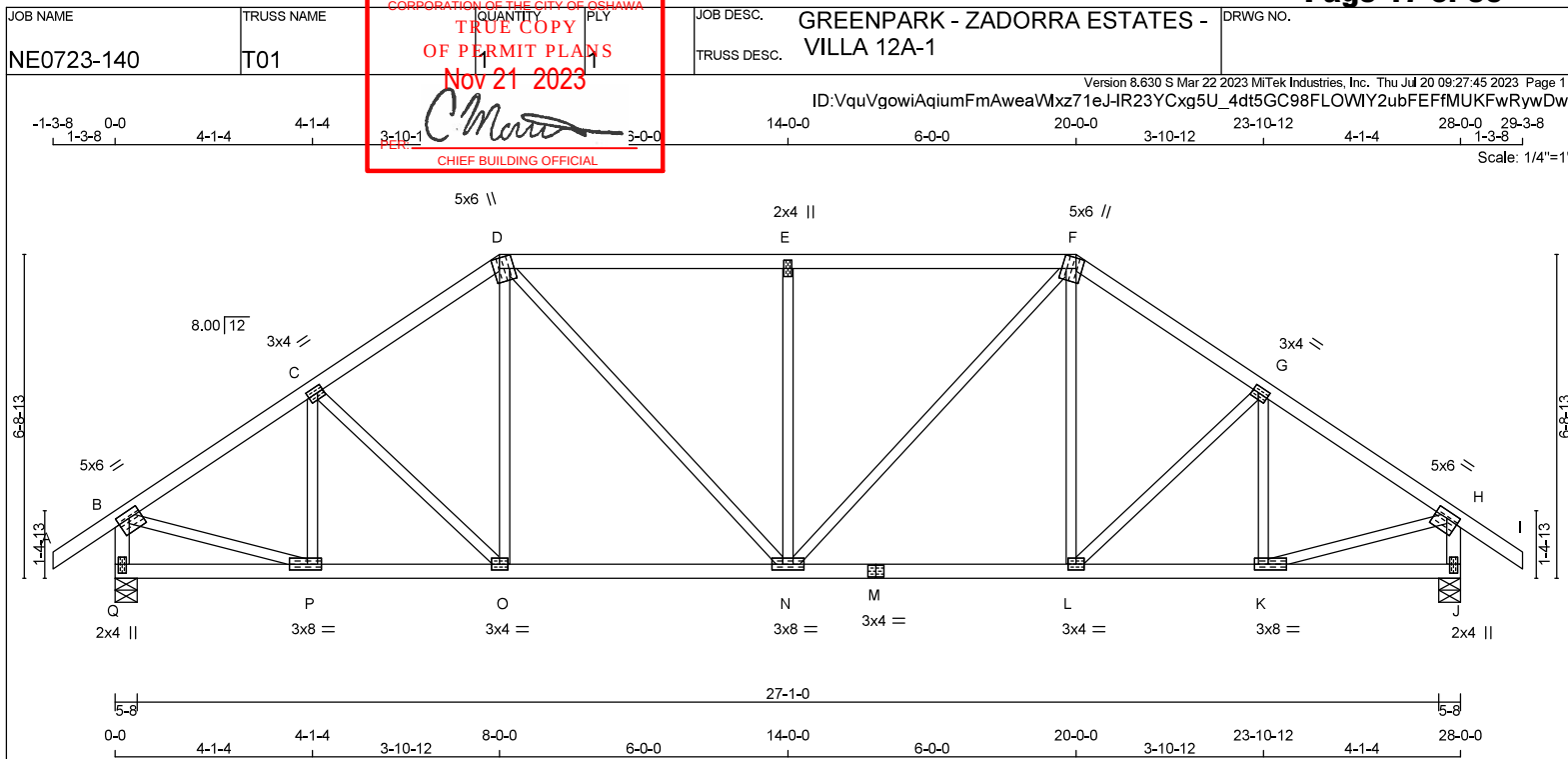
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.20 (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.



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	REQD BRG
JT	VERT	DOWN	UP	IN-SX
Q	2091 0	2091 0	5-8	3-5
J	2091 0	2091 0	5-8	3-5

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
Q	1459	1070 / 0	0 / 0	0 / 0	0 / 0	389 / 0	0 / 0
J	1459	1070 / 0	0 / 0	0 / 0	0 / 0	389 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.80 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 FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO			
A-B	0 / 45	-119.4	-119.4 0.16 (1)	10.00	P-C	-415 / 0	0.11 (1)
B-C	-2167 / 0	-119.4	-119.4 0.29 (1)	4.33	C-D	-152 / 0	0.08 (1)
C-D	-2099 / 0	-119.4	-119.4 0.29 (1)	4.39	D-E	0 / 204	0.05 (1)
D-E	-2182 / 0	-119.4	-119.4 0.63 (1)	3.80	E-F	0 / 675	0.15 (1)
E-F	-2182 / 0	-119.4	-119.4 0.63 (1)	3.80	F-G	-879 / 0	0.66 (1)
F-G	-2099 / 0	-119.4	-119.4 0.29 (1)	4.39	G-H	0 / 675	0.15 (1)
G-H	-2167 / 0	-119.4	-119.4 0.29 (1)	4.33	H-I	0 / 204	0.05 (1)
H-I	0 / 45	-119.4	-119.4 0.16 (1)	10.00	I-J	-152 / 0	0.08 (1)
Q-B	-2055 / 0	0.0	0.0 0.21 (1)	5.82	J-K	-415 / 0	0.11 (1)
J-H	-2055 / 0	0.0	0.0 0.21 (1)	5.82	K-P	0 / 1890	0.43 (1)
					P-O	0 / 1890	0.43 (1)
Q-P	0 / 0	-18.2	-18.2 0.07 (4)	10.00	O-N	-18.2	-18.2 0.34 (1)
P-O	0 / 1828	-18.2	-18.2 0.35 (1)	10.00	N-M	-18.2	-18.2 0.34 (1)
O-N	0 / 1721	-18.2	-18.2 0.34 (1)	10.00	M-L	-18.2	-18.2 0.34 (1)
N-M	0 / 1721	-18.2	-18.2 0.34 (1)	10.00	L-K	-18.2	-18.2 0.35 (1)
M-L	0 / 1721	-18.2	-18.2 0.34 (1)	10.00	K-J	0 / 0	-18.2
L-K	0 / 1828	-18.2	-18.2 0.35 (1)	10.00			
K-J	0 / 0	-18.2	-18.2 0.07 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.93")

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

ALLOWABLE DEFL.(TL)= L/360 (0.93")

CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CSI: TC=0.63/0.97 (D-E:1), BC=0.35/0.97 (O-P:1),

WB=0.66/0.97 (E-A:1), SS=0.35/1.00 (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.

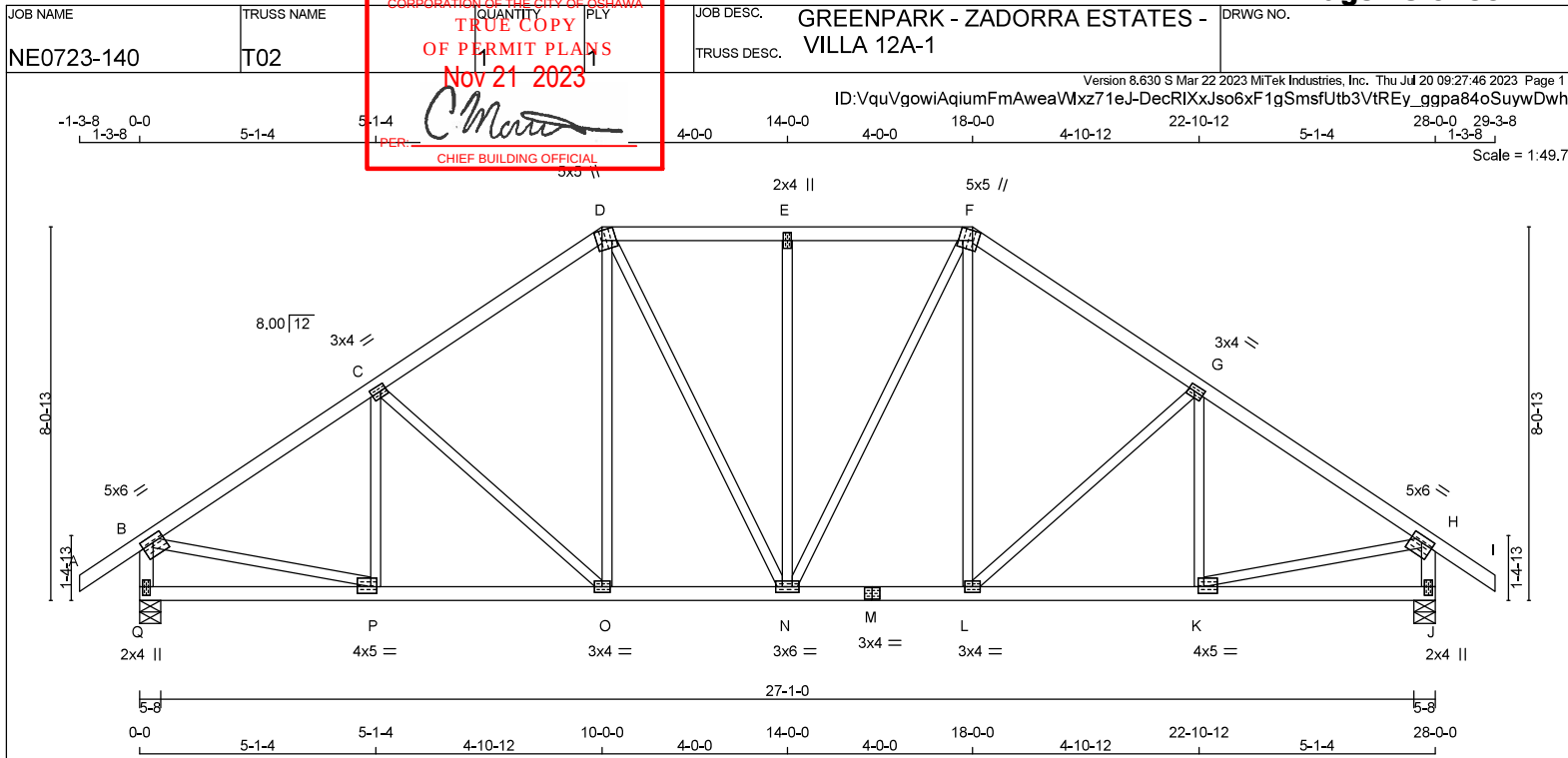
JSI GRIP= 0.89 (P) (INPUT = 0.90)

JSI METAL = 0.57 (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 - 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	TMVW4	MT20	5.0	5.0	2.50	1.50
E	TMVW4	MT20	2.0	4.0		
F	TMVW4	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	4.0		
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	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
Q	2091	0	2091	0
J	2091	0	2091	0

UNFACTORED REACTIONS

	1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW
Q	1459	1070 / 0
J	1459	1070 / 0

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

BRACINGTOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.08 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO				FR-TO			
A-B	0 / 45	-119.4	-119.4 0.16 (1)	P-C	-300 / 10	0.10 (1)	
B-C	-2222 / 0	-119.4	-119.4 0.46 (1)	C-O	-382 / 0	0.32 (1)	
C-D	-1962 / 0	-119.4	-119.4 0.44 (1)	O-D	0 / 340	0.08 (1)	
D-E	-1765 / 0	-119.4	-119.4 0.27 (1)	D-N	0 / 358	0.08 (1)	
E-F	-1765 / 0	-119.4	-119.4 0.27 (1)	N-E	-574 / 0	0.72 (1)	
F-G	-1962 / 0	-119.4	-119.4 0.44 (1)	N-F	0 / 358	0.08 (1)	
G-H	-2222 / 0	-119.4	-119.4 0.46 (1)	L-F	0 / 340	0.08 (1)	
H-I	0 / 45	-119.4	-119.4 0.16 (1)	L-G	-382 / 0	0.32 (1)	
Q-B	-2051 / 0	0.0	0.0 0.21 (1)	K-G	-300 / 10	0.10 (1)	
J-H	-2051 / 0	0.0	0.0 0.21 (1)	B-P	0 / 1922	0.43 (1)	
				K-H	0 / 1922	0.43 (1)	
Q-P	0 / 0	-18.2	-18.2 0.11 (4)				
P-O	0 / 1880	-18.2	-18.2 0.34 (1)				
O-N	0 / 1601	-18.2	-18.2 0.30 (1)				
N-M	0 / 1601	-18.2	-18.2 0.30 (1)				
M-L	0 / 1601	-18.2	-18.2 0.30 (1)				
L-K	0 / 1880	-18.2	-18.2 0.34 (1)				
K-J	0 / 0	-18.2	-18.2 0.11 (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 LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.93")

CALCULATED VERT. DEFL.(LL) = L/999 (0.08")

ALLOWABLE DEFL.(TL) = L/360 (0.93")

CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.46/0.97 (B-C:1), BC=0.34/0.97 (O-P:1),
WB=0.72/0.97 (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
(PL)	(PS)	(PL)	(PL)
MT20	650	371	1747

MAX MIN MAX MIN MAX MIN
1788 1873

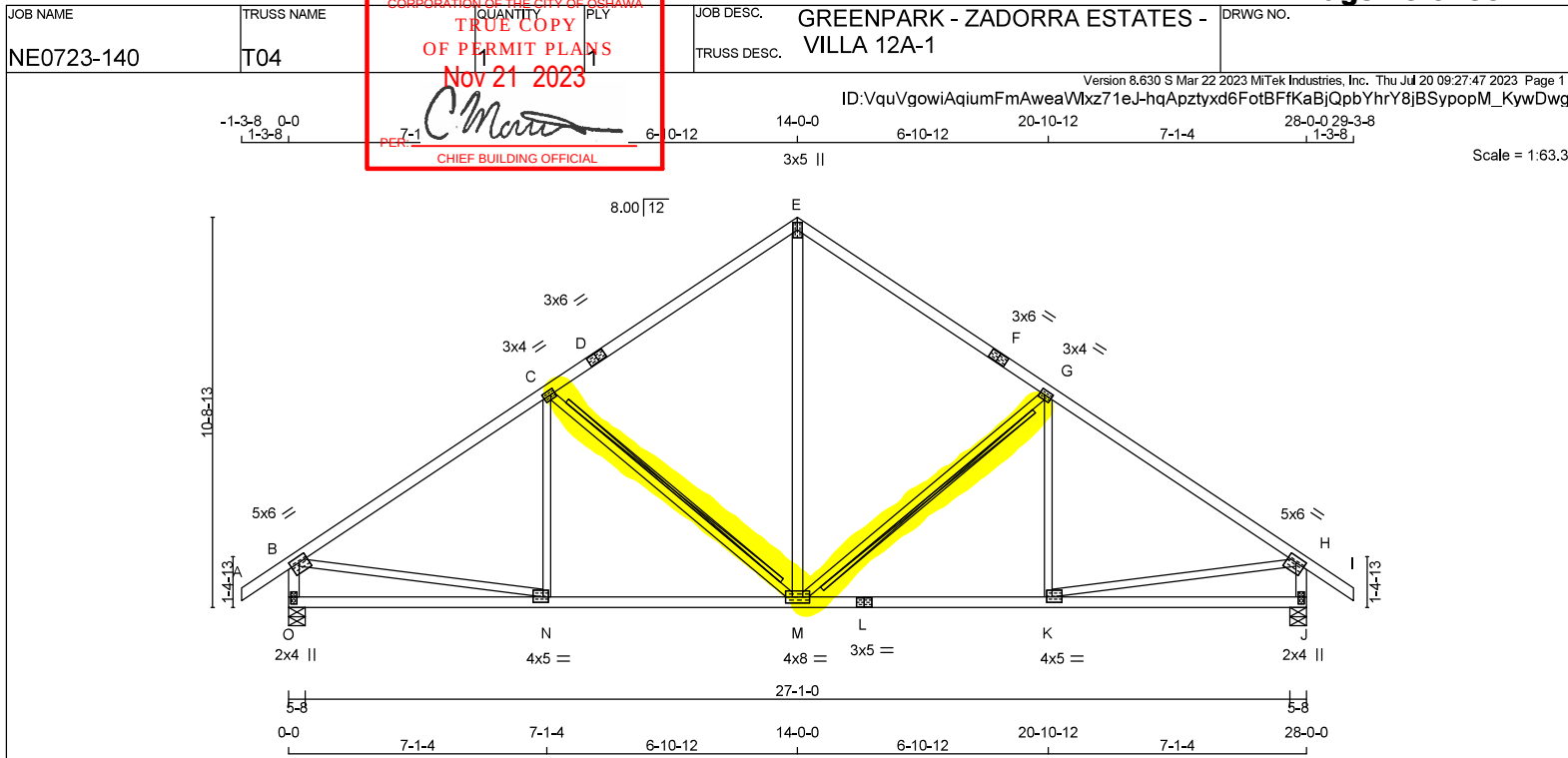
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (Q) (INPUT = 0.90)
JSI METAL = 0.59 (B) (INPUT = 1.00)

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





LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - 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 EXCEPT M - E	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
O	2091	0	2091	0	0	5-8	3-5
J	2091	0	2091	0	0	5-8	3-5

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
O	1459	1070 / 0	0 / 0	0 / 0	0 / 0	389 / 0	0 / 0
J	1459	1070 / 0	0 / 0	0 / 0	0 / 0	389 / 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 = 3.00 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.

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)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)
FR-TO		FROM TO		LENGTH	FR-TO		
A-B	0 / 45	-119.4	-119.4	0.16 (1)	10.00	M-E	0 / 1120
B-C	-2220 / 0	-119.4	-119.4	0.97 (1)	3.00	M-G	-774 / 0
C-D	-1622 / 0	-119.4	-119.4	0.86 (1)	3.69	K-G	-147 / 85
D-E	-1622 / 0	-119.4	-119.4	0.86 (1)	3.69	C-M	-774 / 0
E-F	-1622 / 0	-119.4	-119.4	0.86 (1)	3.69	N-C	-147 / 85
F-G	-1622 / 0	-119.4	-119.4	0.86 (1)	3.69	B-N	0 / 1915
G-H	-2220 / 0	-119.4	-119.4	0.97 (1)	3.00	K-H	0 / 1915
H-I	0 / 45	-119.4	-119.4	0.16 (1)	10.00		
I-B	-2038 / 0	0.0	0.0	0.21 (1)	5.84		
J-H	-2038 / 0	0.0	0.0	0.21 (1)	5.84		
O-N	0 / 0	-18.2	-18.2	0.22 (4)	10.00		
N-M	0 / 1893	-18.2	-18.2	0.41 (1)	10.00		
M-L	0 / 1893	-18.2	-18.2	0.41 (1)	10.00		
L-K	0 / 1893	-18.2	-18.2	0.41 (1)	10.00		
K-J	0 / 0	-18.2	-18.2	0.22 (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) = $L/360$ (0.93")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.08")
ALLOWABLE DEFL.(TL) = $L/360$ (0.93")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.16")

CSI: TC=0.97/0.97 (G-H-1), BC=0.41/0.97 (K-M-1), WB=0.49/0.97 (G-M-1), SSI=0.34/1.00 (G-H-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

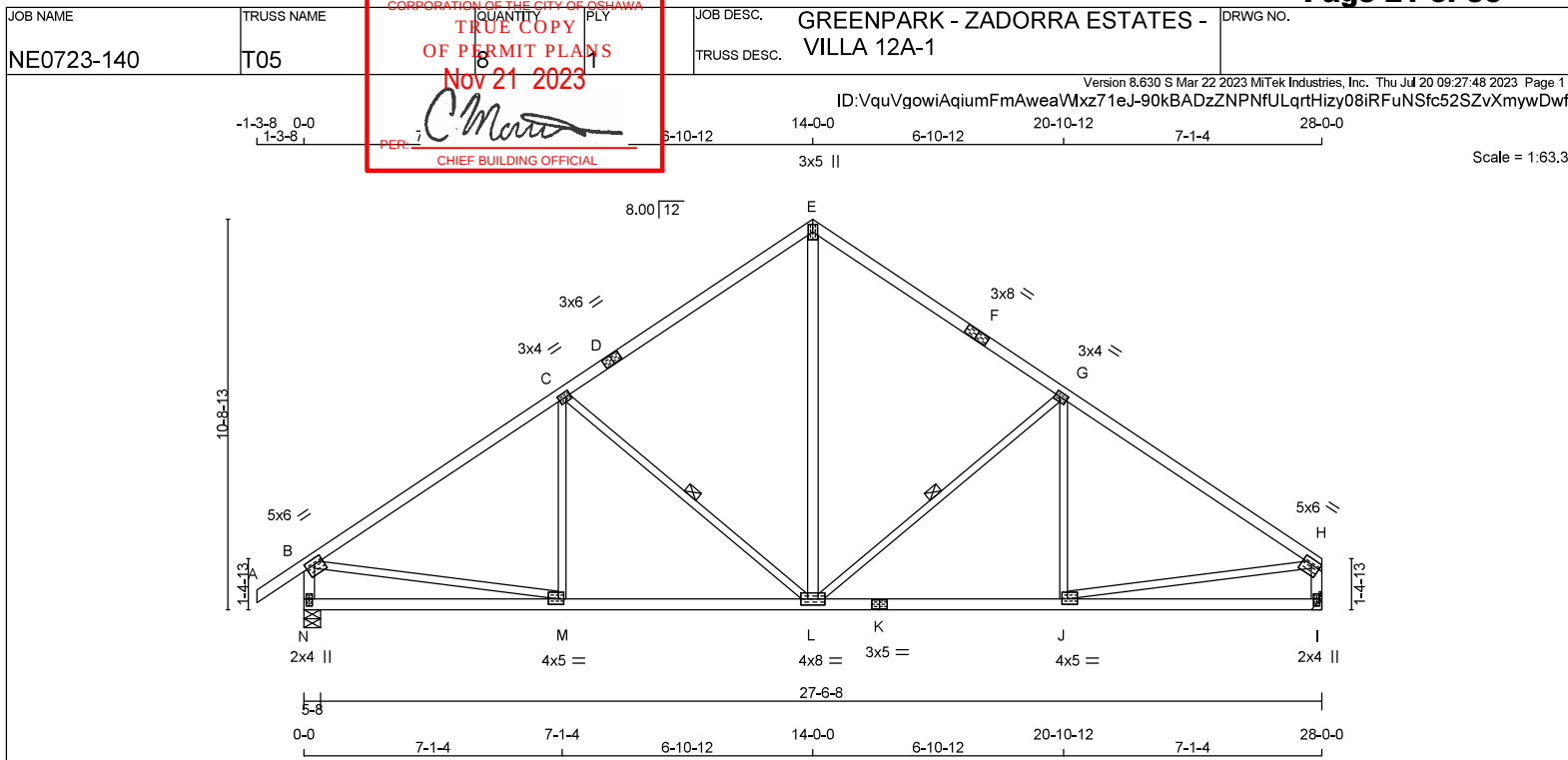
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.87 (O) (INPUT = 0.90)
JSI METAL = 0.61 (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 120 = 963 lb

LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWWH	MT20	5.0	6.0	1.75	3.00
C	TMWWH	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	TS4	MT20	3.0	8.0		
G	TMWWH	MT20	3.0	4.0	1.50	1.50
H	TMWWH	MT20	5.0	6.0	1.75	Edge
I	BMV1+p	MT20	2.0	4.0	2.25	1.00
J	BMWWH	MT20	4.0	5.0	1.75	1.75
K	BS4	MT20	3.0	5.0		
L	BMWWH	MT20	4.0	8.0		
M	BMWWH	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	2091	0	2091	0	0	5-8	3-5
I	1927	0	1927	0	0	MECHANICAL	

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT I. MINIMUM BEARING LENGTH AT JOINT I = 2-12.

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
N	1459	1070 / 0	0 / 0	0 / 0	0 / 0	389 / 0	0 / 0
I	1347	975 / 0	0 / 0	0 / 0	0 / 0	372 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.00 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.

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF G-L, C-L. DBS = 20-0-0. CBF = 97 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MAX. FACTORED FORCE (LBS)	MEMB.	WEBS MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO					FR-TO		
A-B	0 / 45	-119.4	-119.4 0.16 (1)	10.00	L-E	0 / 1120	0.18 (1)
B-C	-2220 / 0	-119.4	-119.4 0.97 (1)	3.00	L-G	-774 / 0	0.43 (1)
C-D	-1622 / 0	-119.4	-119.4 0.86 (1)	3.69	J-G	-147 / 85	0.09 (1)
D-E	-1622 / 0	-119.4	-119.4 0.86 (1)	3.69	C-L	-774 / 0	0.43 (1)
E-F	-1622 / 0	-119.4	-119.4 0.86 (1)	3.69	M-C	-147 / 85	0.09 (1)
F-G	-1622 / 0	-119.4	-119.4 0.86 (1)	3.69	B-M	0 / 1915	0.43 (1)
G-H	-2220 / 0	-119.4	-119.4 0.97 (1)	3.00	J-H	0 / 1915	0.43 (1)
N-B	-2038 / 0	0.0	0.0 0.21 (1)	5.84			
I-H	-1874 / 0	0.0	0.0 0.19 (1)	6.06			
N-M	0 / 0	-18.2	-18.2 0.22 (4)	10.00			
M-L	0 / 1893	-18.2	-18.2 0.41 (1)	10.00			
L-K	0 / 1893	-18.2	-18.2 0.41 (1)	10.00			
K-J	0 / 1893	-18.2	-18.2 0.41 (1)	10.00			
J-I	0 / 0	-18.2	-18.2 0.22 (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) = $L/360$ (0.93")

CALCULATED VERT. DEFL.(LL) = $L/999$ (0.08")

ALLOWABLE DEFL.(TL) = $L/360$ (0.93")

CALCULATED VERT. DEFL.(TL) = $L/999$ (0.16")

CSI: $TC=0.97/0.97$ (G-H:1), $BC=0.41/0.97$ (J-L:1), $WB=0.43/0.97$ (G-L:1), $SSI=0.34/1.00$ (G-H: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	MAX MIN
MT20	650 371	1747 788	1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

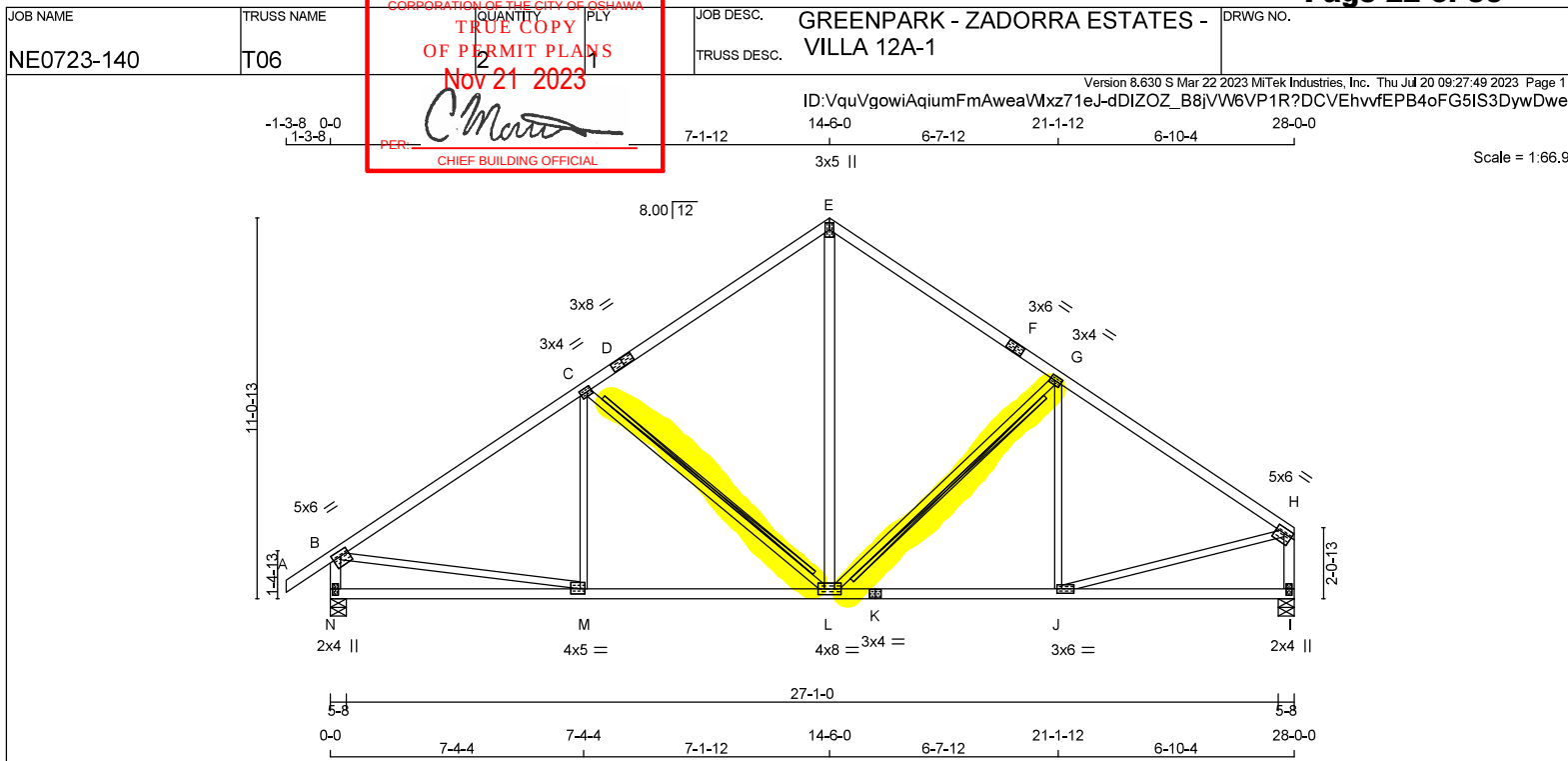
JSI GRIP= 0.87 (N) (INPUT = 0.90)

JSI METAL= 0.61 (B) (INPUT = 1.00)



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





LUMBER		
N. L. G. A. RULES		
CHORDS	SIZE	LUMBER
A - D	2x4	DRY 2100F 1.8E
D - E	2x4	DRY 2100F 1.8E
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 EXCEPT L - E	2x3 2x4	DRY DRY	No.2 No.2
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DRY: SEASONED LUMBER.

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+	MT20	5.0	6.0	1.75	3.00
C	CTMWW+	MT20	3.0	4.0	1.50	1.50
D	TS+	MT20	3.0	8.0		
E	TTW+p	MT20	3.0	5.0		
F	TS+	MT20	3.0	6.0		
G	TMVW+	MT20	3.0	4.0	1.50	1.50
H	TMVW+	MT20	5.0	6.0	1.75	Edge
I	BMVW+	MT20	2.0	2.25	1.00	
J	BMVW+	MT20	3.0	6.0	1.50	1.75
K	BS+	MT20	3.0	4.0		
L	BMVWVW+	MT20	4.0	8.0		
M	BMVW+	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
REMARKS

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT	REQ'D
	GROSS REACTION		GROSS REACTION			BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
N	2091	0	2091	0	0	5-8	3-5
I	1927	0	1927	0	0	5-8	2-12

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
N	1459	1070 / 0	0 / 0	0 / 0	0 / 0	389 / 0	0 / 0
I	1347	975 / 0	0 / 0	0 / 0	0 / 0	372 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.47 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-L, G-L

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED CSF (LBS)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSF (LBS)	
FR-TO		FROM TO			FR-TO			
A-B	0 / 45	-119.4	-119.4	0.10 (1)	10.00	M-C	-130 / 95	0.08 (1)
B-C	-2213 / 0	-119.4	-119.4	0.63 (1)	4.64	C-L	-821 / 0	0.57 (1)
C-D	-1574 / 0	-119.4	-119.4	0.58 (1)	5.35	L-E	0 / 1064	0.17 (1)
D-E	-1574 / 0	-119.4	-119.4	0.58 (1)	5.35	L-G	-603 / 0	0.40 (1)
E-F	-1570 / 0	-119.4	-119.4	0.78 (1)	3.97	J-G	-297 / 39	0.22 (1)
F-G	-1570 / 0	-119.4	-119.4	0.78 (1)	3.97	B-M	0 / 1910	0.43 (1)
G-H	-1985 / 0	-119.4	-119.4	0.86 (1)	3.47	J-H	0 / 1751	0.39 (1)
N-B	-2036 / 0	0.0	0.0	0.21 (1)	5.84			
I-H	-1876 / 0	0.0	0.0	0.22 (1)	6.05			

N-M	0 / 0	-18.2	-18.2	0.24 (4)	10.00
M-L	0 / 1890	-18.2	-18.2	0.42 (1)	10.00
L-K	0 / 1697	-18.2	-18.2	0.37 (1)	10.00
K-J	0 / 1697	-18.2	-18.2	0.37 (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/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 (0.93")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (0.93")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.15")

CSI: TC=0.86/0.97 (G-H:1) , BC=0.42/0.97 (L-M:1) ,
WB=0.57/0.97 (C-L:1) , SSI=0.35/1.00 (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= 0.88 (J) (INPUT = 0.90)
JSI METAL= 0.61 (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.**

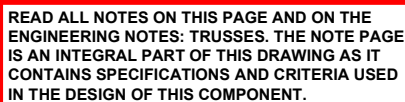


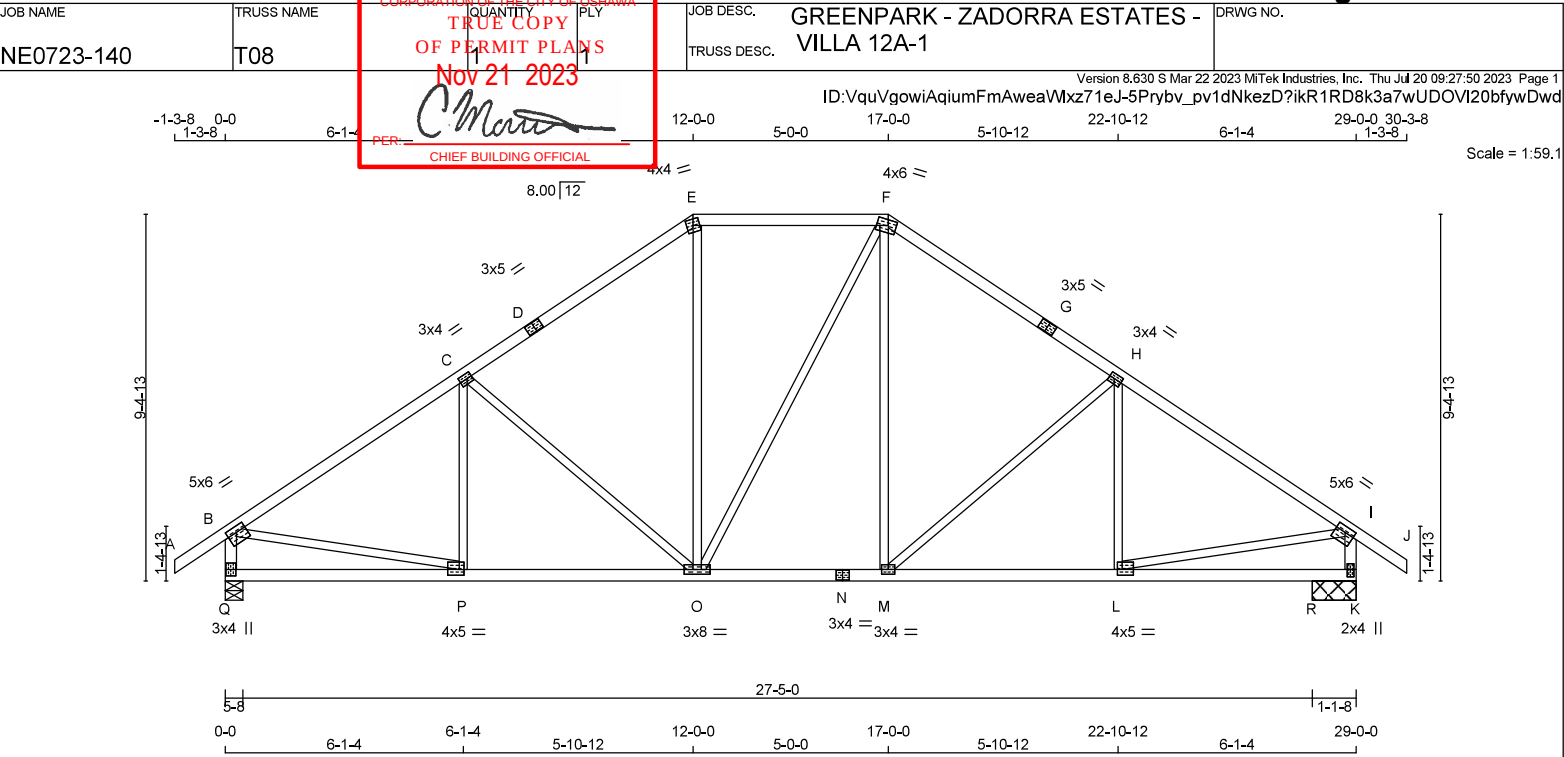
Scale = 1:65.2

DRY: SEASONED LUMBER.

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

JSI GRIP= 0.89 (J) (INPUT = 0.90)
JSI METAL= 0.61 (B) (INPUT = 1.00)





LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR.
A - D	2x4	DRY	2100F 1.8E	SPF
D - E	2x4	DRY	2100F 1.8E	SPF
E - F	2x4	DRY	No.2	SPF
F - G	2x4	DRY	2100F 1.8E	SPF
G - J	2x4	DRY	2100F 1.8E	SPF
K - 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)						
J	TYPE	PLATES	W	LEN	Y	X
B	TMVVW+	MT20	5.0	6.0	1.75	3.00
C	CTMWW+	MT20	3.0	4.0	1.50	1.50
D	TS+	MT20	3.0	5.0		
E	TTW-m	MT20	4.0	4.0		
F	TTWWM-m	MT20	4.0	6.0	1.75	2.50
G	TS+	MT20	3.0	5.0		
H	TMWW+	MT20	3.0	4.0	1.50	1.50
I	TMWW+	MT20	5.0	6.0	1.75	3.00
K	BMV1+p	MT20	2.0	4.0	2.25	1.00
L	BMWW+	MT20	4.0	5.0	1.75	1.50
M	BMWW+	MT20	3.0	4.0		
N	BS+	MT20	3.0	4.0		
O	BMWWWW+	MT20	3.0	8.0		
P	BMWW+	MT20	4.0	5.0	1.75	1.50
Q	BMV1+p	MT20	3.0	4.0		

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

DESIGNER						
BEARINGS						
FACTORED			MAXIMUM FACTORED			
GROSS REACTION			GROSS REACTION			INPUT
Q	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG
JT						IN-SX
K	2154	0	2154	0	0	5-8
K	2009	0	2009	0	0	1-1-8
R	157	0	157	0	0	1-1-8
						3-1
						3-1

UNFACTORED REACTIONS

JT	1ST CASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	1503	1103 / 0	0 / 0	0 / 0	0 / 0	399 / 0	0 / 0
K	1395	1064 / 0	0 / 0	0 / 0	0 / 0	330 / 0	0 / 0
R	117	42 / 0	0 / 0	0 / 0	0 / 0	75 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.43 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MAX. FACTORED		FACTORED		MAX. FACTORED				
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		LENGTH	FR-TO			
A-B	0 / 45	-119.4	-119.4	0.10 (1)	10.00	P-C	-227 / 48	0.10 (1)
B-C	-2324 / 0	-119.4	-119.4	0.80 (1)	4.84	C-O	-576 / 0	0.75 (1)
C-D	-1836 / 0	-119.4	-119.4	0.56 (1)	5.04	O-E	0 / 465	0.10 (1)
D-E	-1836 / 0	-119.4	-119.4	0.56 (1)	5.04	O-F	0 / 5	0.00 (1)
E-F	-1541 / 0	-119.4	-119.4	0.58 (1)	4.43	M-F	0 / 460	0.10 (1)
F-G	-1894 / 0	-119.4	-119.4	0.56 (1)	5.04	M-H	-541 / 0	0.70 (1)
G-H	-1894 / 0	-119.4	-119.4	0.56 (1)	5.04	L-H	-267 / 21	0.12 (1)
H-I	-2289 / 0	-119.4	-119.4	0.59 (1)	4.66	B-P	0 / 2003	0.45 (1)
I-J	0 / 45	-119.4	-119.4	0.10 (1)	10.00	L-I	0 / 1974	0.44 (1)
Q-B	-2108 / 0	0.0	0.0	0.22 (1)	5.76			
K-I	-2083 / 0	0.0	0.0	0.21 (1)	5.79			
Q-P	0 / 0	-18.2	-18.2	0.16 (4)	10.00			
P-O	0 / 1973	-18.2	-18.2	0.39 (1)	10.00			
O-N	0 / 1539	-18.2	-18.2	0.32 (1)	10.00			
N-M	0 / 1539	-18.2	-18.2	0.32 (1)	10.00			
M-L	0 / 1944	-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 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 (0.93")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (0.93")
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.15")

CSI: TC=0.60/0.97 (B-C:1), BC=0.39/0.97 (O-P:1),
WB=0.75/0.97 (C-O:1), SSI=0.29/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

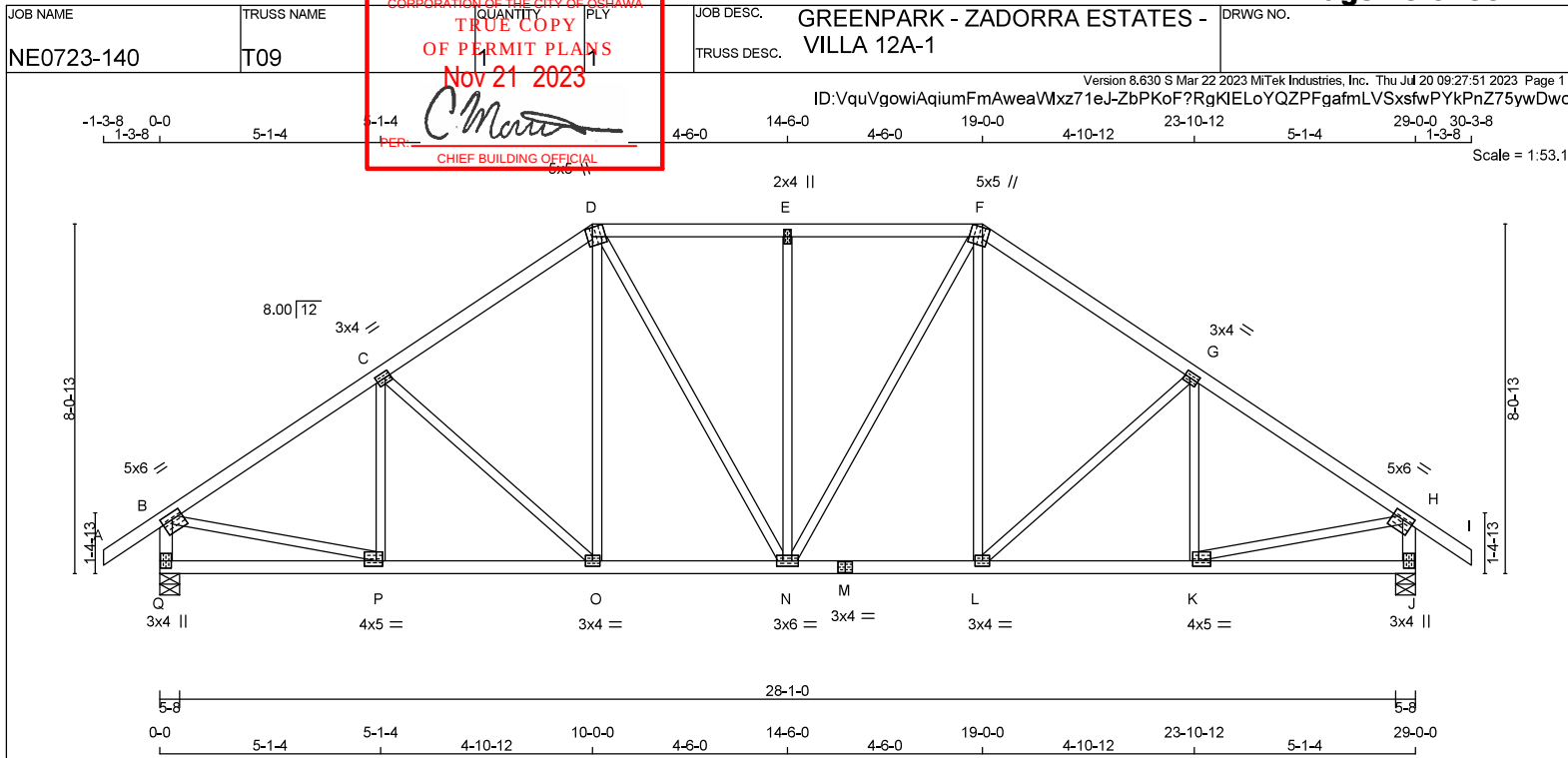
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (K) (INPUT = 0.90)
JSI METAL= 0.62 (B) (INPUT = 1.00)



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



**LUMBER**

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
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	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	3.0	4.0		
K	BMVW4	MT20	4.0	5.0	1.50	1.75
L	BMVW4	MT20	3.0	4.0		
M	BS4	MT20	3.0	4.0		
N	BMVW4	MT20	3.0	4.0		
O	BMVW4	MT20	3.0	4.0		
P	BMVW4	MT20	4.0	5.0	1.50	1.75
Q	BMV1+p	MT20	3.0	4.0		

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
Q	2160	0	2160	0
J	2160	0	2160	0

UNFACTORED REACTIONS

	1ST CASE	MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
Q	1507	1105 / 0	0 / 0	0 / 0	0 / 0	402 / 0	0 / 0
J	1507	1105 / 0	0 / 0	0 / 0	0 / 0	402 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.00 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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 45	-119.4	-119.4 0.16 (1)	10.00	P-C	-317 / 5	0.11 (1)
B-C	-2315 / 0	-119.4	-119.4 0.47 (1)	4.00	C-O	-366 / 0	0.30 (1)
C-D	-2069 / 0	-119.4	-119.4 0.44 (1)	4.21	O-D	0 / 334	0.08 (1)
D-E	-1900 / 0	-119.4	-119.4 0.34 (1)	4.49	D-N	0 / 419	0.09 (1)
E-F	-1900 / 0	-119.4	-119.4 0.34 (1)	4.49	N-E	-651 / 0	0.81 (1)
F-G	-2069 / 0	-119.4	-119.4 0.44 (1)	4.21	N-F	0 / 419	0.09 (1)
G-H	-2315 / 0	-119.4	-119.4 0.47 (1)	4.00	L-F	0 / 334	0.08 (1)
H-I	0 / 45	-119.4	-119.4 0.16 (1)	10.00	L-G	-366 / 0	0.30 (1)
Q-B	-2119 / 0	0.0	0.0 0.22 (1)	5.75	K-G	-317 / 5	0.11 (1)
J-H	-2119 / 0	0.0	0.0 0.22 (1)	5.75	B-P	0 / 2002	0.45 (1)
					K-H	0 / 2002	0.45 (1)
Q-P	0 / 0	-18.2	-18.2 0.11 (4)	10.00			
P-O	0 / 1958	-18.2	-18.2 0.36 (1)	10.00			
O-N	0 / 1690	-18.2	-18.2 0.32 (1)	10.00			
N-M	0 / 1690	-18.2	-18.2 0.32 (1)	10.00			
M-L	0 / 1690	-18.2	-18.2 0.32 (1)	10.00			
L-K	0 / 1958	-18.2	-18.2 0.36 (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 LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.97")

CALCULATED VERT. DEFL.(LL) = L/999 (0.08")

ALLOWABLE DEFL.(TL)= L/360 (0.97")

CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.47/0.97 (B-C:1) , BC=0.36/0.97 (O-P:1) , WB=0.81/0.97 (E-N:1) , SS=0.26/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PL)

(PSI) (PL)

MAX MIN MAX MIN MAX MIN

MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

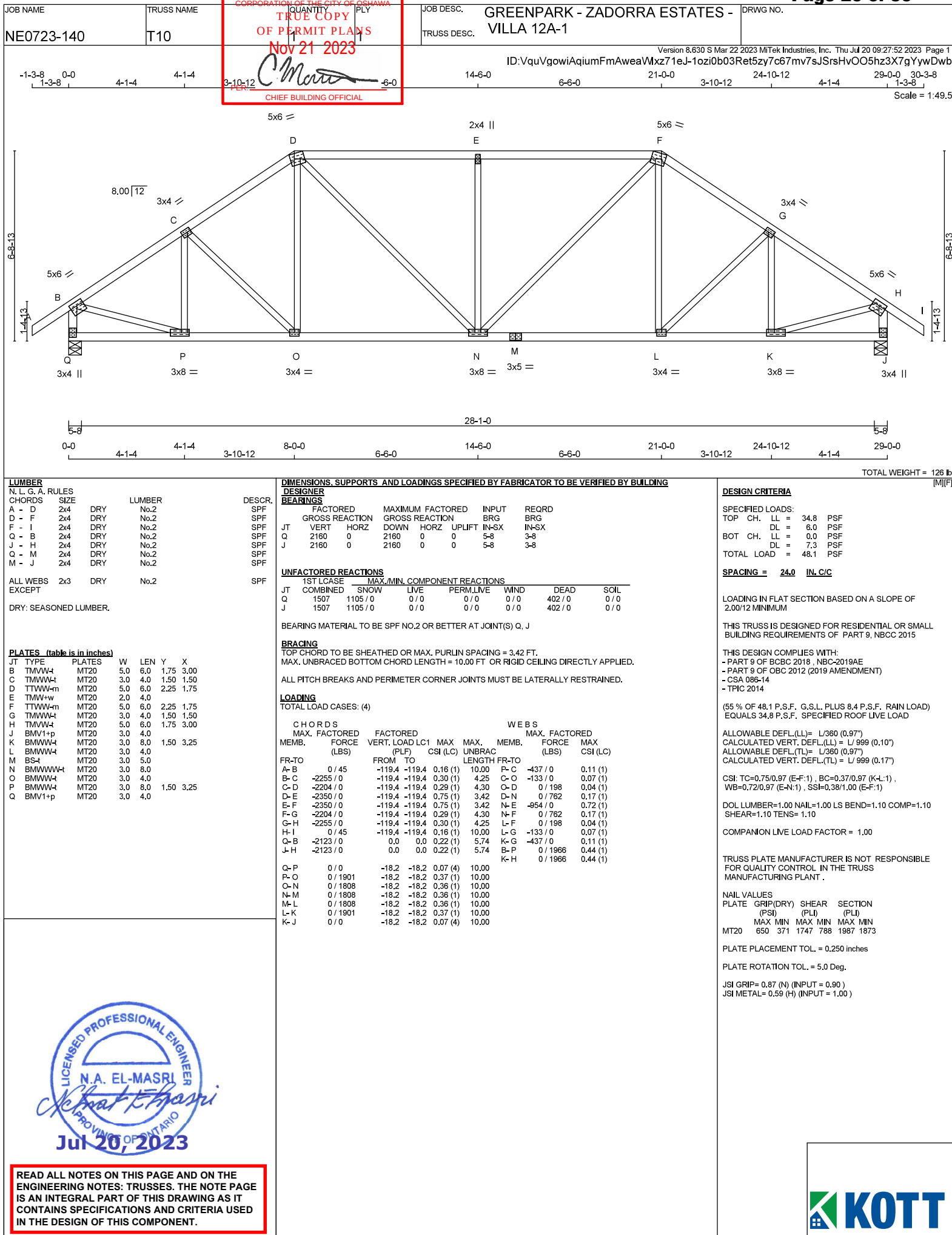
PLATE ROTATION TOL. = 5.0 Deg.

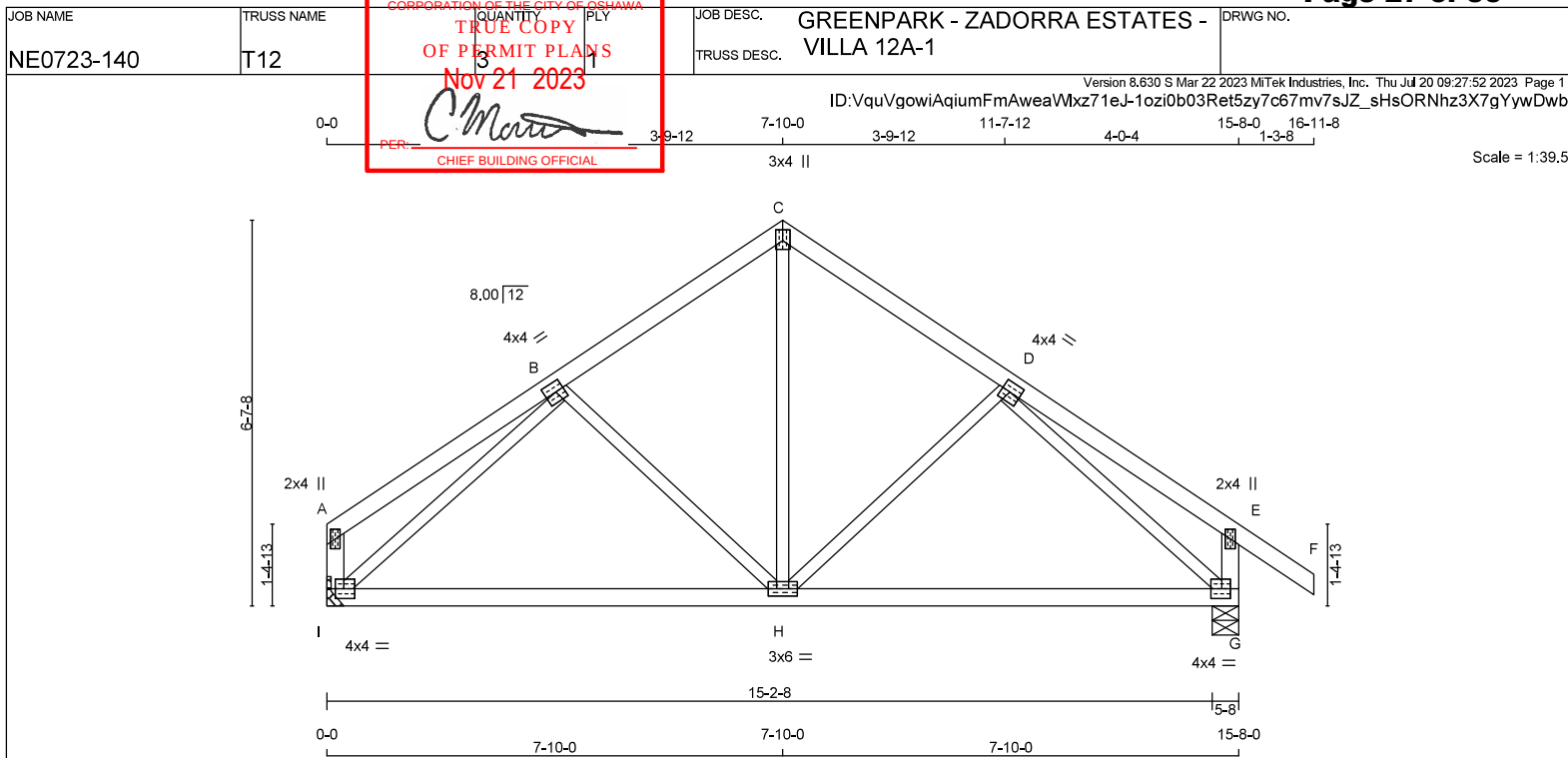
JSI GRIP= 0.87 (D) (INPUT = 0.90) JSI METAL = 0.61 (H) (INPUT = 1.00)



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.







TOTAL WEIGHT = 3 X 65 = 195 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - F	2x4	DRY	No.2
I - A	2x4	DRY	No.2
G - E	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
A	TMV+p	MT20	2.0	4.0		
B	TMWW-H	MT20	4.0	4.0	2.00	1.75
C	TTW+p	MT20	3.0	4.0	2.25	1.50
D	TMWW-H	MT20	4.0	4.0	2.00	1.75
E	TMV+p	MT20	2.0	4.0		
G	BMWW1-H	MT20	4.0	4.0	2.00	1.75
H	BMWW-H	MT20	3.0	6.0		
I	BMWW1-H	MT20	4.0	4.0	2.00	1.75

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

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD
I	1078	1078	0	BRG
G	1242	1242	0	BRG

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX./MIN. COMPONENT REACTIONS	WIND	DEAD	SOIL
I	754	545 / 0	0 / 0	208 / 0	0 / 0
G	866	641 / 0	0 / 0	225 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. UNBRACED LENGTH FR-TO	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH FR-TO
A-B	0 / 30	-119.4	-119.4	0.29 (1)	10.00	H-C	0 / 560	0.13 (1)
B-C	-860 / 0	-119.4	-119.4	0.23 (1)	6.25	H-D	-280 / 0	0.14 (1)
C-D	-860 / 0	-119.4	-119.4	0.23 (1)	6.25	B-H	-280 / 0	0.14 (1)
D-E	0 / 30	-119.4	-119.4	0.29 (1)	10.00	I-B	-1230 / 0	0.58 (1)
E-F	0 / 45	-119.4	-119.4	0.16 (1)	10.00	D-G	-1231 / 0	0.58 (1)
I-A	-179 / 0	0.0	0.0	0.02 (1)	7.81			
G-E	-343 / 0	0.0	0.0	0.04 (1)	7.81			
I-H	0 / 895	-18.2	-18.2	0.38 (4)	10.00			
H-G	0 / 895	-18.2	-18.2	0.38 (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) = $L/360$ (0.52")
 CALCULATED VERT. DEFL.(LL) = $L/999$ (0.03")
 ALLOWABLE DEFL.(TL) = $L/360$ (0.52")
 CALCULATED VERT. DEFL.(TL) = $L/999$ (0.10")

CSI: TC=0.29/0.97 (D-E-1), BC=0.38/0.97 (G-H-4),
 WB=0.58/0.97 (D-G-1), SSI=0.19/1.00 (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

PLATE PLACEMENT TOL. = 0.250 inches

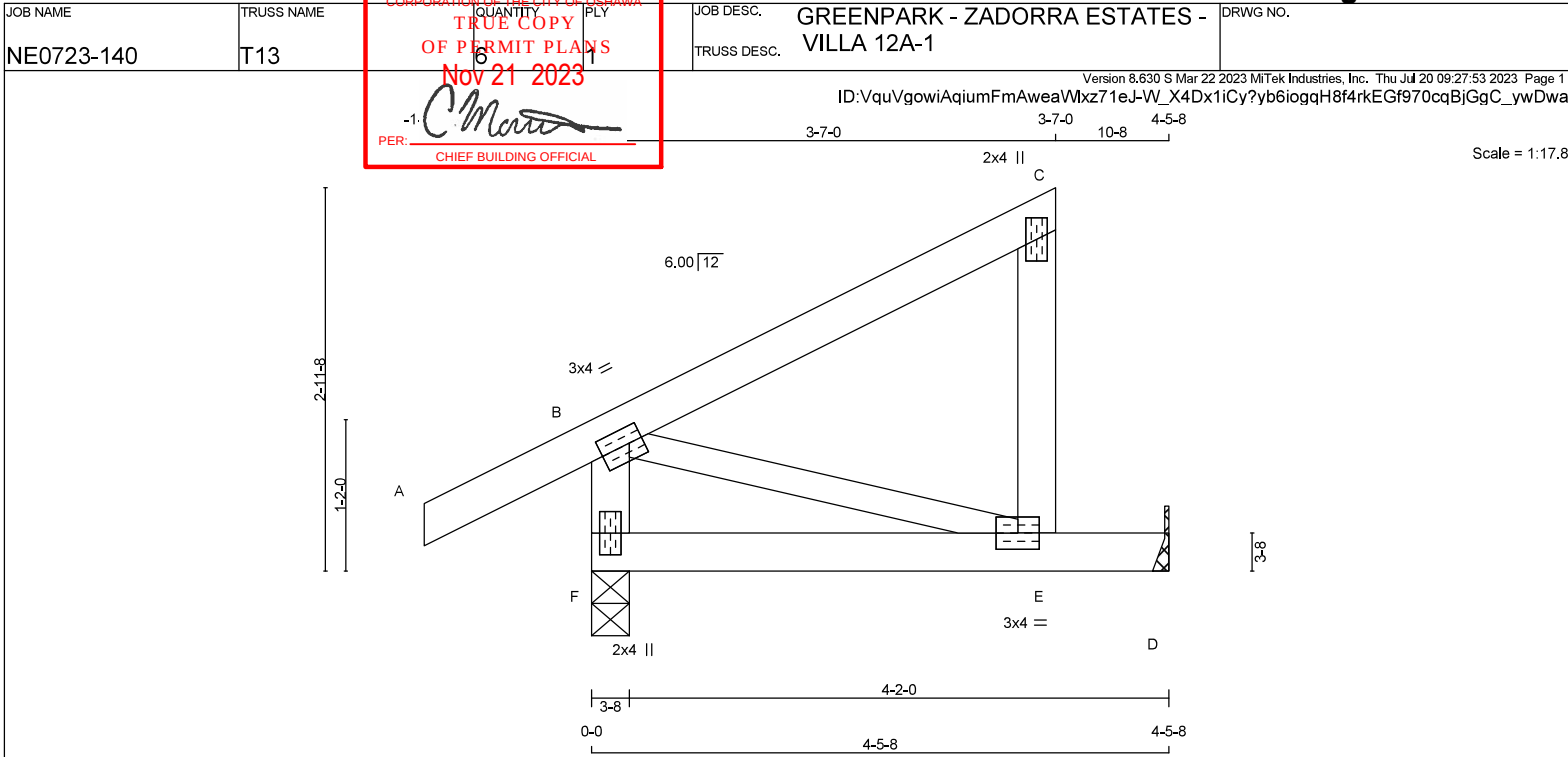
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (G) (INPUT = 0.90)
 JSI METAL= 0.39 (B) (INPUT = 1.00)



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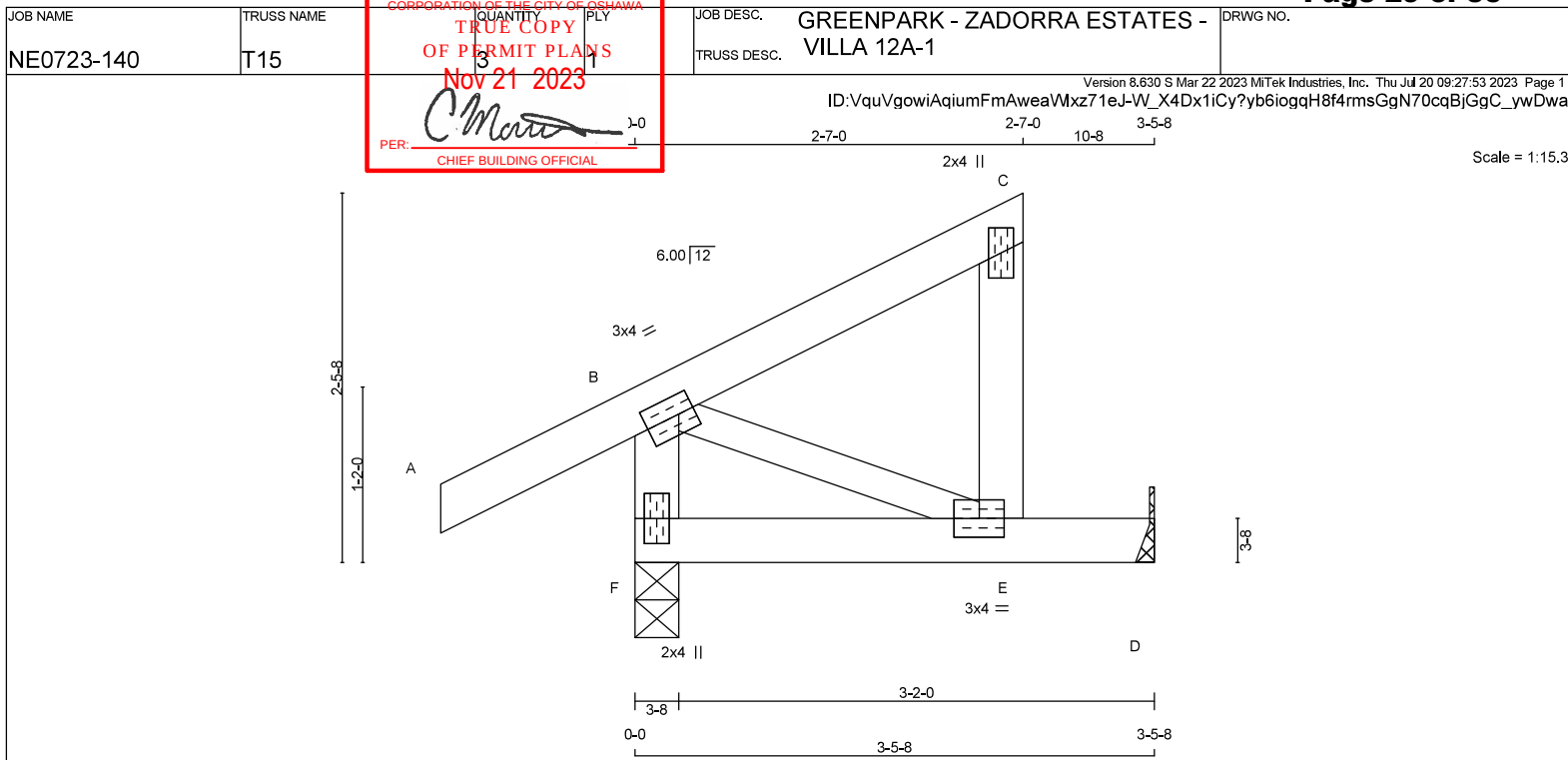


LUMBER				DESIGNER				DESIGN CRITERIA			
N. L. G. A. RULES				SPF				SPECIFIED LOADS:			
CHORDS SIZE LUMBER				SPF				TOP CH. LL = 34.8 PSF			
A - C 2x4 DRY No.2				SPF				DL = 6.0 PSF			
E - C 2x4 DRY No.2				SPF				BOT CH. LL = 0.0 PSF			
F - B 2x4 DRY No.2				SPF				DL = 7.3 PSF			
F - D 2x4 DRY No.2				SPF				TOTAL LOAD = 48.1 PSF			
ALL WEBS 2x3 DRY No.2				SPF				SPACING = 24.0 IN. C/C			
DRY: SEASONED LUMBER.				A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 1-8.				THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015			
PLATES (table is in inches)				UNFACTORED REACTIONS				THIS DESIGN COMPLIES WITH:			
JT TYPE PLATES W LEN Y X				1ST LCASE MAX./MIN. COMPONENT REACTIONS				- PART 9 OF BCBC 2018, NBC-2019AE			
B TMVWH MT20 3.0 4.0 1.50 1.25				JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL				- PART 9 OF OBC 2012 (2019 AMENDMENT)			
C TMV+p MT20 2.0 4.0				F 318 244 / 0 0 / 0 0 / 0 75 / 0 0 / 0				- CSA 086-14			
E BMVWH MT20 3.0 4.0				D 150 100 / 0 0 / 0 0 / 0 50 / 0 0 / 0				- TPIC 2014			
F BMV1+p MT20 2.0 4.0				BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) F				(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			
				BRACING				ALLOWABLE DEFL.(LL)= L/360 (0.19")			
				TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.				CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")			
				MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.				ALLOWABLE DEFL.(TL)= L/360 (0.19")			
				ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.				CALCULATED VERT. DEFL.(TL) = L/ 842 (0.06")			
				LOADING				CSI: TC=0.26/0.97 (B-C:1) , BC=0.24/0.97 (E-F:1) , WB=0.00/0.97 (B-E:1) , SSI=0.17/1.00 (D-E:1)			
				TOTAL LOAD CASES: (4)				DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10			
				CHORDS WEBS				COMPANION LIVE LOAD FACTOR = 1.00			
				MEMB. MAX. FACTORED FORCE (LBS) VERT. LOAD LC1 MAX. (PLF) CSI (LC) UNBRAC LENGTH FR-TO MEMB. MAX. FACTORED FORCE (LBS) MAX. CSI (LC)				TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .			
				FR-TO FROM TO LENGTH FR-TO				NAIL VALUES			
				A- B 0 / 36 -119.4 -119.4 0.16 (1) 10.00 B- E 0 / 0 0.00 (1)				PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)			
				B- C 0 / 0 -119.4 -119.4 0.26 (1) 10.00				MAX MIN MAX MIN MAX MIN			
				E- C -214 / 0 0.0 0.0 0.03 (1) 7.81				MT20 650 371 1747 788 1987 1873			
				F- B -376 / 0 0.0 0.0 0.04 (1) 7.81				PLATE PLACEMENT TOL. = 0.250 inches			
				F- E 0 / 0 -18.2 -18.2 0.24 (1) 10.00							
				E- D 0 / 0 -18.2 -18.2 0.24 (1) 10.00							

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.

LICENSED PROFESSIONAL ENGINEER
N.A. EL-MASRI
PROVINCE OF ONTARIO
Jul 20, 2023





TOTAL WEIGHT = 3 X 14 = 41 lb

LUMBER

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

ALL WEBS 2x3 DRY No.2

DRY: SEASONED LUMBER.

DESCR.
SPF
SPF
SPF
SPF

PLATES (table is in inches)

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

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

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
F	387	0	387	0	0	3-8	1-8
D	147	0	147	0	0	MECHANICAL	

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

UNFACTORED REACTIONS

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

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (7)

MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. CSI (LC)	MAX. UNBRAC LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO					B-E	0 / 0	0.00 (1)
A-B	0 / 36	-119.4	-119.4	0.16 (5)			
B-C	0 / 0	-119.4	-119.4	0.14 (1)			
E-C	-154 / 0	0.0	0.0	0.02 (1)			
F-B	-316 / 0	0.0	0.0	0.03 (1)			
F-E	0 / 0	-18.2	-18.2	0.17 (1)			
E-D	0 / 0	-18.2	-18.2	0.17 (1)			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

PATTERN-LOADING CHECK APPLIED TO THIS TRUSS.

DESIGN CRITERIA**SPECIFIED LOADS:**

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
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 (D-E: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.

