

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS	2x4	DRY	No.2
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 HORZ	INPUT UPLIFT IN-SX	REQD BRG IN-SX
E	354	0	354	0	0	5-8
C	63	0	63	0	-32	1-8
D	6	0	17	0	-6	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 LCASE COMBINED	MAX./MIN. SNOW	MIN. LIVE	MAX. PERM. LIVE	WIND	DEAD	SOIL
E	244	197 / 0	0 / 0	0 / 0	0 / 0	48 / 0	0 / 0
C	43	36 / -25	0 / 0	0 / 0	0 / 0	7 / 0	0 / 0
D	6	0 / -11	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO	UNBRACED LENGTH	FR-TO		
E-B	-326 / 0	0.0	0.0	0.05 (5)	7.81		
A-B	0 / 49	-119.4	-119.4	0.16 (1)	10.00		
B-C	-30 / 0	-119.4	-119.4	0.13 (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

0-0 2-0-0

CHIEF BUILDING OFFICIAL

3-0-0

5-0-0

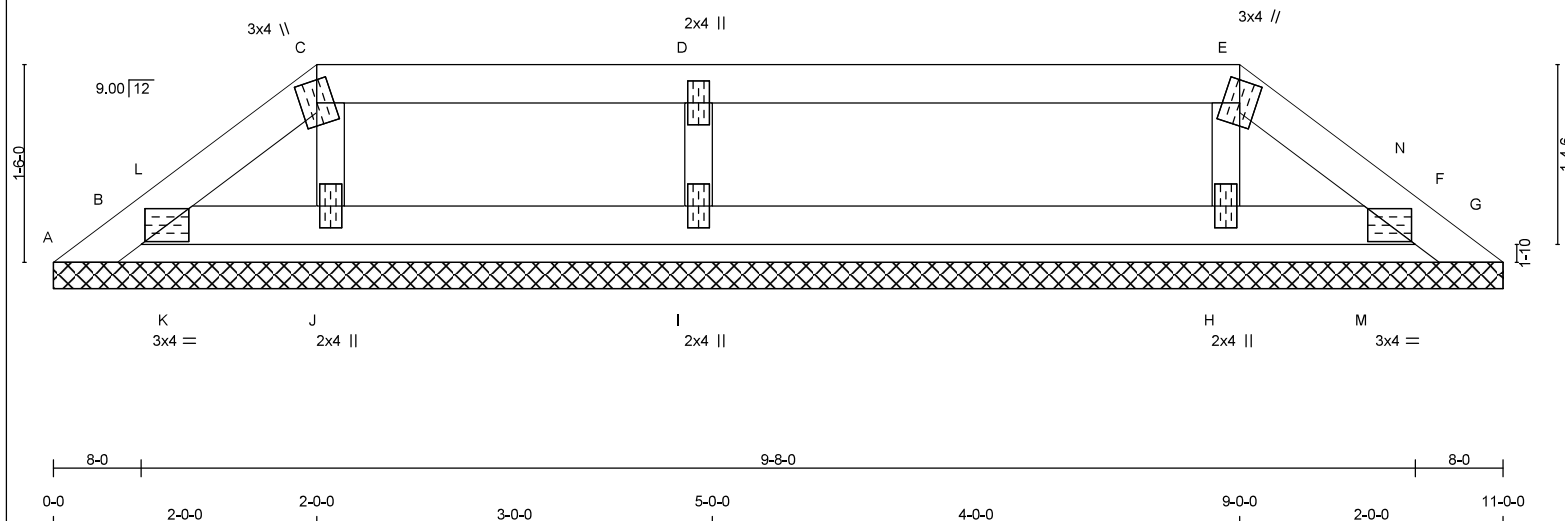
4-0-0

9-0-0

2-0-0

11-0-0

Scale = 1:17.5



TOTAL WEIGHT = 27 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
E - G	2x4	DRY	No.2	SPF
B - F	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

BEARING NOTE: GAP BETWEEN INSIDE OF TOP CHORD BEARING AND FIRST DIAGONAL OR VERTICAL WEB SHALL NOT EXCEED 0.5 INCHES.

GABLE STUDS SPACED AT 4-0-0 OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TTW+m	MT20	3.0	4.0		
D	TMW+w	MT20	2.0	4.0		
E	TTW+m	MT20	3.0	4.0		
F	TMB1-I	MT20	3.0	4.0		
H, I, J						
H	BMW1+w	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.

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S):

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	FACTORED MAX. FORCE (LBS)
FR-TO		FROM TO		FR-TO			
A-B	0 / 14	-137.7	-137.7 0.02 (1)	10.00	H-E	-226 / 0	0.03 (1)
B-L	-58 / 0	-119.4	-119.4 0.02 (1)	6.25	I-D	-535 / 0	0.08 (1)
C	-36 / 0	-119.4	-119.4 0.02 (1)	6.25	J-C	-143 / 0	0.02 (1)
C-D	-12 / 0	-119.4	-119.4 0.27 (1)	6.25	K-L	-46 / 0	0.00 (1)
D-E	-12 / 0	-119.4	-119.4 0.27 (1)	6.25	M-N	-71 / 0	0.00 (1)
E-N	-48 / 0	-119.4	-119.4 0.02 (1)	6.25			
N-F	-54 / 3	-119.4	-119.4 0.02 (1)	6.25			
F-G	0 / 11	-137.7	-137.7 0.02 (1)	10.00			
B-K	0 / 26	-18.2	-18.2 0.02 (1)	10.00			
K-J	0 / 26	-18.2	-18.2 0.02 (1)	10.00			
J-I	0 / 12	-18.2	-18.2 0.05 (4)	10.00			
I-H	0 / 12	-18.2	-18.2 0.05 (4)	10.00			
H-M	0 / 35	-18.2	-18.2 0.05 (4)	10.00			
M-F	0 / 35	-18.2	-18.2 0.03 (1)	10.00			

DESIGN CRITERIA**SPECIFIED LOADS:**

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

SPACING = 24.0 IN./C

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

CSI: TC=0.27/0.97 (D-E:1), BC=0.05/0.97 (H-M:4),
WB=0.08/0.97 (D-I:1), SSI=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)	(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= 0.36 (E) (INPUT = 0.90)
JSI METAL = 0.11 (D) (INPUT = 1.00)



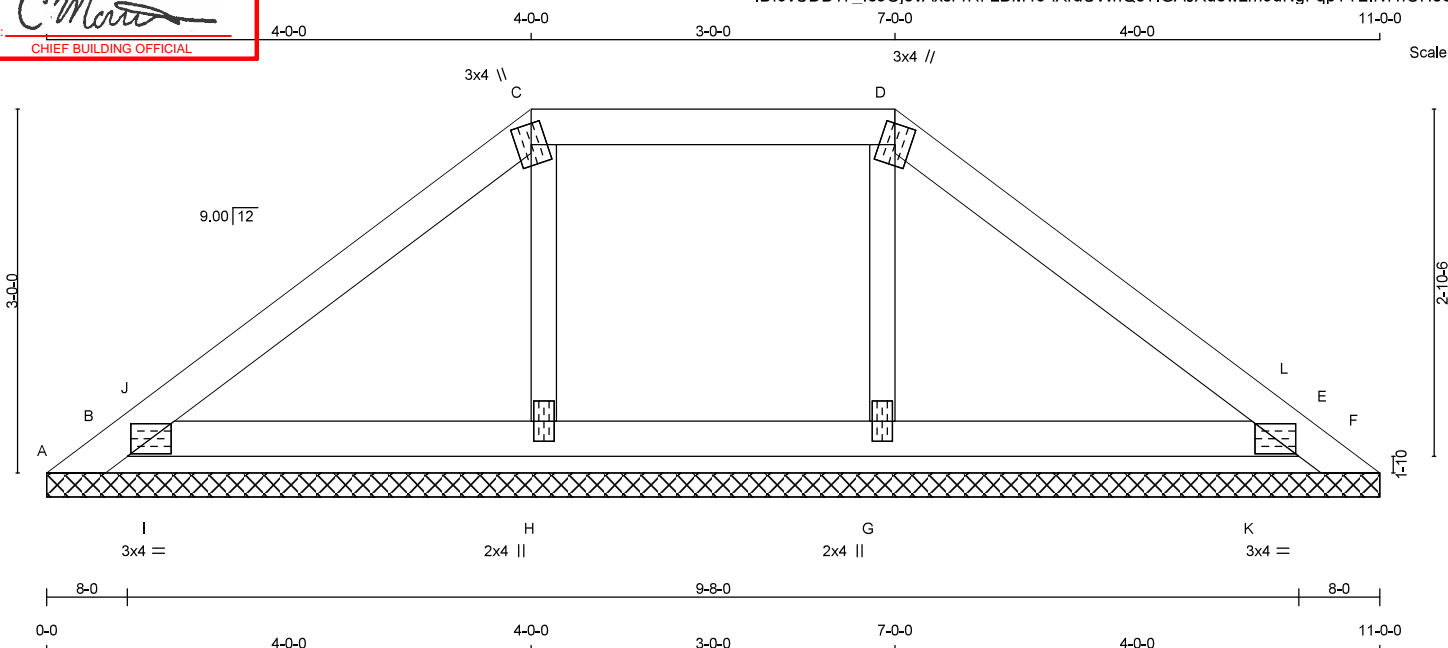
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CORPORATION OF THE CITY OF OSHAWA
 JOB NAME: TRUE COPY TRUSS NAME: P02
 NE0723-038
 OCT 31 2023
 PER: *C. Masri*
 CHIEF BUILDING OFFICIAL

QUANTITY: 1
 PLY: 1
 JOB DESC.: GREENPARK - ZADORRA ESTATES - ROSE 10-2
 TRUSS DESC.:
 ID:5vUDB17_Ic6Oj0vAxsr4RFzBM45-iXrdUWhQsTIGAJXd8wzm5dNgFqPTY2IN7hOH86z_RA8

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 7 15:07:33 2023 Page 1
 Scale = 1:19.0



TOTAL WEIGHT = 30 lb

LUMBER

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

BEARING NOTE: GAP BETWEEN INSIDE OF TOP CHORD BEARING AND FIRST DIAGONAL OR VERTICAL WEB SHALL NOT EXCEED 0.5 INCHES.

GABLE STUDS SPACED AT 4'-0" OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TTW+m	MT20	3.0	4.0		
D	TTW+m	MT20	3.0	4.0		
E	TMB1-I	MT20	3.0	4.0		
G	BMW1+w	MT20	2.0	4.0		
H	BMW1+w	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.

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): G, H

PROVIDE ANCHORAGE AT BEARING JOINT A FOR 160 LBS. FACTORED UPLIFT

PROVIDE ANCHORAGE AT BEARING JOINT F FOR 160 LBS. FACTORED UPLIFT

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. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)
FR-TO				FR-TO			
A-B	0 / 113	-137.7	-137.7 0.18 (1)	10.00	G-D	-281 / 0	0.05 (1)
B-J	-163 / 0	-119.4	-119.4 0.16 (1)	6.25	H-C	-281 / 0	0.05 (1)
J-C	-104 / 0	-119.4	-119.4 0.14 (1)	6.25	I-J	-112 / 44	0.00 (1)
C-D	-58 / 0	-119.4	-119.4 0.18 (1)	6.25	K-L	-112 / 44	0.00 (1)
D-L	-104 / 0	-119.4	-119.4 0.14 (1)	6.25			
L-E	-163 / 0	-119.4	-119.4 0.16 (1)	6.25			
E-F	0 / 113	-137.7	-137.7 0.18 (1)	10.00			
B-I	0 / 70	-18.2	-18.2 0.06 (1)	10.00			
I-H	0 / 70	-18.2	-18.2 0.06 (1)	10.00			
H-G	0 / 58	-18.2	-18.2 0.04 (1)	10.00			
G-K	0 / 70	-18.2	-18.2 0.06 (1)	10.00			
K-E	0 / 70	-18.2	-18.2 0.06 (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 LOAD

CSI: TC=0.18/0.97 (C-D:1), BC=0.06/0.97 (G-K:1), WB=0.05/0.97 (D-G:1), SSI=0.15/1.00 (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)
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

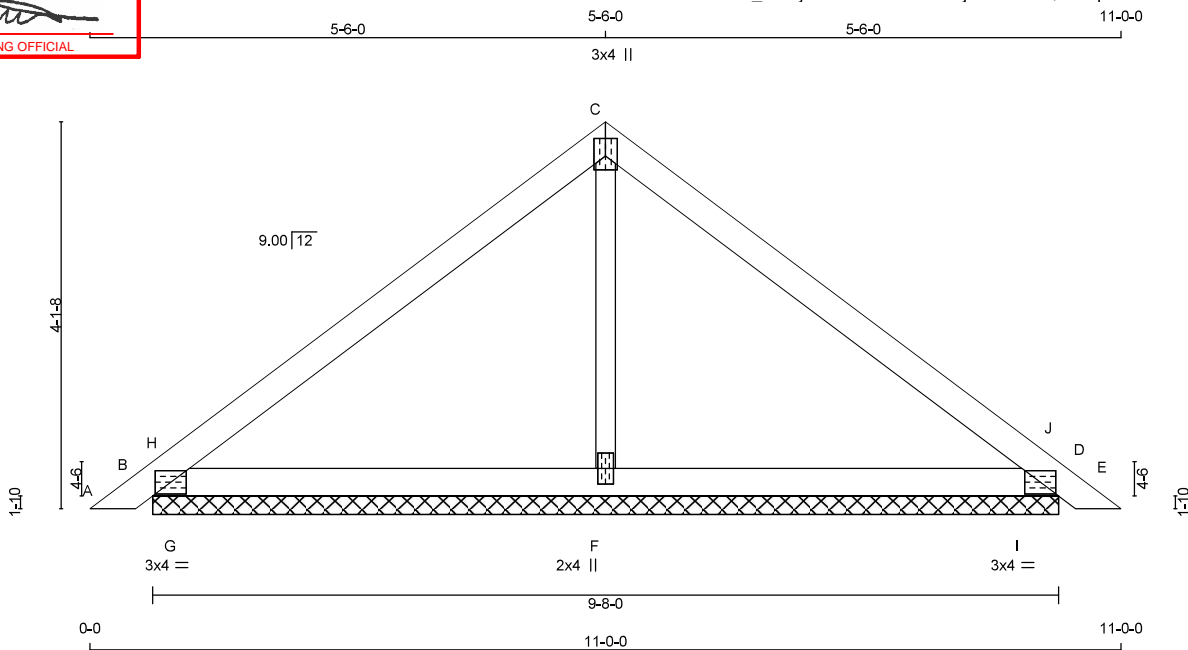
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.44 (B) (INPUT = 0.90)
 JSI METAL = 0.08 (E) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 29 = 59 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
B - D	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TTW+p	MT20	3.0	4.0	2.25	1.50
D	TMB1-I	MT20	3.0	4.0		
F	BMW1+w	MT20	2.0	4.0		

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

DESIGNER
REMARKS

BEARINGS			FACTORED			MAXIMUM FACTORED			INPUT	REQRD
GROSS REACTION			GROSS REACTION			GROSS REACTION			BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG	IN-SX	IN-SX		
B	492	0	492	0	0	9-8-0		1-8		
D	492	0	492	0	0	9-8-0		1-8		
F	485	0	485	0	0	9-8-0		1-8		

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	341	263 / 0	0 / 0	0 / 0	0 / 0	78 / 0	0 / 0
D	341	263 / 0	0 / 0	0 / 0	0 / 0	78 / 0	0 / 0
F	342	227 / 0	0 / 0	0 / 0	0 / 0	115 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

C H O R D S					W E B S				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. C1 PLF	MAX. C1 (LBS)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX C1 (LBS)	
FR-TO		FROM	TO			FR-TO			
A-B	0 / 20	-119.4	-119.4	0.03 (1)	10.00	F-C	-233 / 0	0.06 (1)	
B-H	-27 / 99	-119.4	-119.4	0.21 (1)	6.25	G-H	-782 / 0	0.00 (1)	
H-C	-225 / 0	-119.4	-119.4	0.33 (1)	6.25	I-J	-782 / 0	0.00 (1)	
C-J	-225 / 0	-119.4	-119.4	0.33 (1)	6.25				
J-D	-27 / 99	-119.4	-119.4	0.21 (1)	6.25				
D-E	0 / 20	-119.4	-119.4	0.03 (1)	10.00				
B-G	0 / 165	-18.2	-18.2	0.32 (1)	10.00				
G-F	0 / 165	-18.2	-18.2	0.32 (1)	10.00				
F-I	0 / 165	-18.2	-18.2	0.32 (1)	10.00				
I-D	0 / 165	-18.2	-18.2	0.32 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

CSI: TC=0.33/0.97 (C-J:1) , BC=0.32/0.97 (D-I:1) ,
WB=0.06/0.97 (C-F:1) , SSI=0.58/1.00 (D-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI)		SHEAR (PLI)		SECTION (PLI)	
	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= 0.42 (D) (INPUT = 0.90)
JSI METAL= 0.10 (B) (INPUT = 1.00)

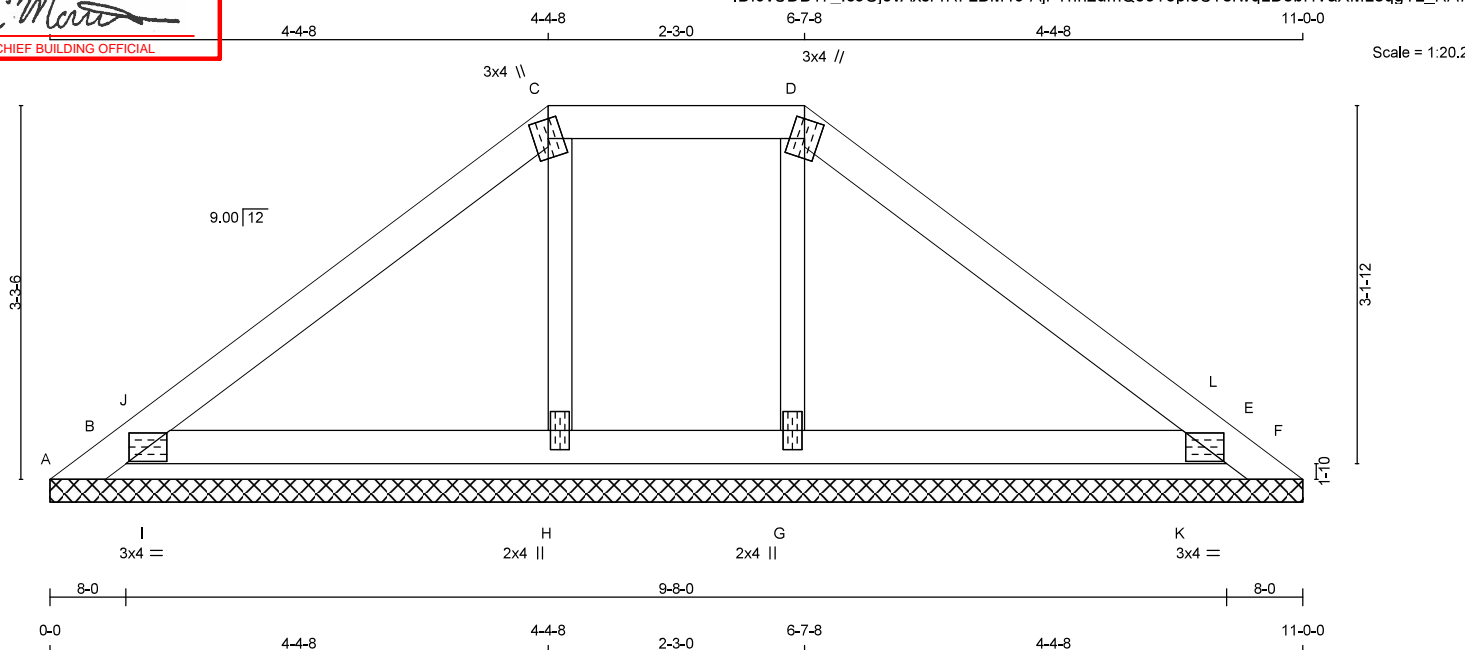


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CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.**





MHP 23031



TOTAL WEIGHT = 30 lb

LUMBER

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

BEARING NOTE: GAP BETWEEN INSIDE OF TOP CHORD BEARING AND FIRST DIAGONAL OR VERTICAL WEB SHALL NOT EXCEED 0.5 INCHES.

GABLE STUDS SPACED AT 4'-0" OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TTW+m	MT20	3.0	4.0		
D	TTW+m	MT20	3.0	4.0		
E	TMB1-I	MT20	3.0	4.0		
G	BMW1+w	MT20	2.0	4.0		
H	BMW1+w	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.

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): G, H

PROVIDE ANCHORAGE AT BEARING JOINT A FOR 217 LBS. FACTORED UPLIFT

PROVIDE ANCHORAGE AT BEARING JOINT F FOR 217 LBS. FACTORED UPLIFT

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. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 145	-137.7	-137.7 0.23 (1)	10.00	G-D	-253 / 0	0.05 (1)
B-J	-174 / 0	-119.4	-119.4 0.20 (1)	6.25	H-C	-253 / 0	0.05 (1)
J-C	-107 / 0	-119.4	-119.4 0.17 (1)	6.25	I-J	-122 / 61	0.00 (1)
C-D	-60 / 0	-119.4	-119.4 0.10 (1)	6.25	K-L	-122 / 61	0.00 (1)
D-L	-107 / 0	-119.4	-119.4 0.17 (1)	6.25			
L-E	-174 / 0	-119.4	-119.4 0.20 (1)	6.25			
E-F	0 / 145	-137.7	-137.7 0.23 (1)	10.00			
B-I	0 / 70	-18.2	-18.2 0.07 (1)	10.00			
I-H	0 / 70	-18.2	-18.2 0.07 (1)	10.00			
H-G	0 / 60	-18.2	-18.2 0.05 (1)	10.00			
G-K	0 / 70	-18.2	-18.2 0.07 (1)	10.00			
K-E	0 / 70	-18.2	-18.2 0.07 (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 LOAD

CSI: TC=0.23/0.97 (E-F:1), BC=0.07/0.97 (G-K:1), WB=0.05/0.97 (D-G:1), SSI=0.19/1.00 (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 (PSI)	SECTION (PLI)
MT20	650	371	1747
		788	1987
		1873	

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.52 (B) (INPUT = 0.90)
JSI METAL= 0.10 (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.



0-0

PER

3-10-0

5-5-0

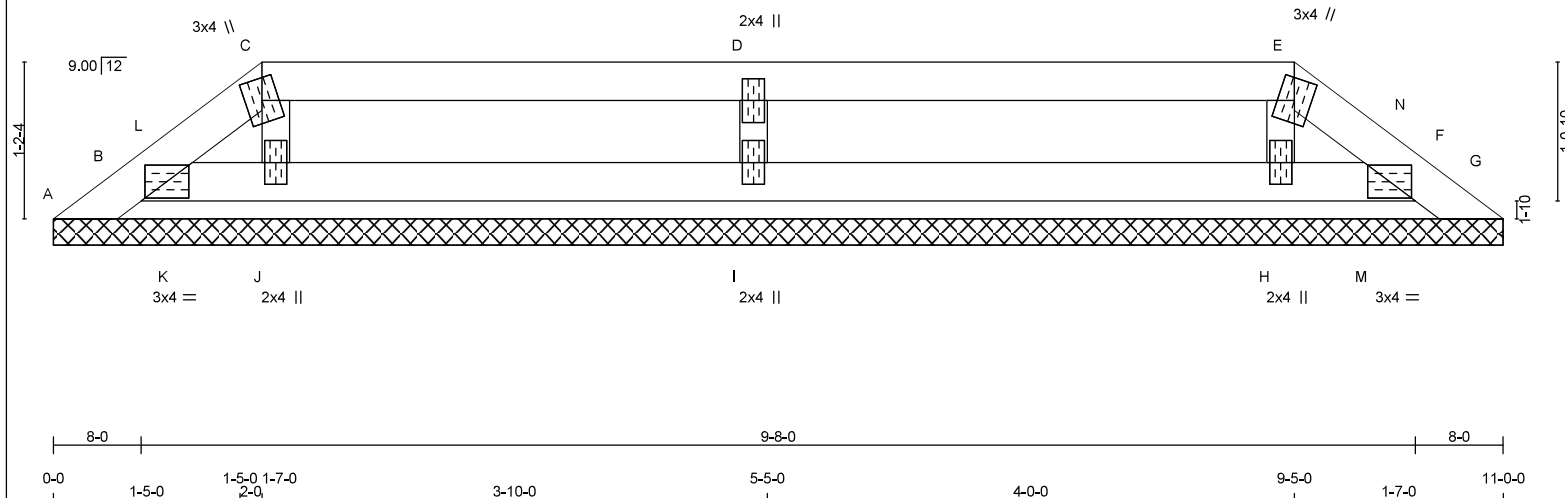
4-0-0

9-5-0

1-7-0

11-0-0

Scale = 1:17.5



TOTAL WEIGHT = 26 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
E - G	2x4	DRY	No.2	SPF
B - F	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

BEARING NOTE: GAP BETWEEN INSIDE OF TOP CHORD BEARING AND FIRST DIAGONAL OR VERTICAL WEB SHALL NOT EXCEED 0.5 INCHES.

GABLE STUDS SPACED AT 4-0-0 OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TTW+m	MT20	3.0	4.0		
D	TMW+w	MT20	2.0	4.0		
E	TTW+m	MT20	3.0	4.0		
F	TMB1-I	MT20	3.0	4.0		
H, I, J						
H	BMW1+w	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.

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S):

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH FR-TO	MAX. LC1 (LC)
FR-TO		FROM	TO				
A-B	0 / 6	-137.7	-137.7	0.01 (1)	10.00	H-E	-193 / 0
B-L	-44 / 3	-119.4	-119.4	0.01 (1)	6.25	I-D	-585 / 0
C-D	-42 / 0	-119.4	-119.4	0.01 (4)	6.25	J-C	-170 / 0
C-D	-6 / 0	-119.4	-119.4	0.31 (1)	10.00	K-L	-53 / 0
D-E	-6 / 0	-119.4	-119.4	0.31 (1)	10.00	M-N	-64 / 0
E-N	-48 / 0	-119.4	-119.4	0.01 (4)	6.25		
N-F	-42 / 9	-119.4	-119.4	0.01 (4)	6.25		
F-G	-2 / 5	-137.7	-137.7	0.01 (1)	10.00		
B-K	0 / 30	-18.2	-18.2	0.02 (1)	10.00		
K-J	0 / 30	-18.2	-18.2	0.04 (4)	10.00		
J-I	0 / 7	-18.2	-18.2	0.08 (4)	10.00		
I-H	0 / 7	-18.2	-18.2	0.08 (4)	10.00		
H-M	0 / 33	-18.2	-18.2	0.05 (4)	10.00		
M-F	0 / 33	-18.2	-18.2	0.02 (1)	10.00		

DESIGN CRITERIA**SPECIFIED LOADS:**

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

SPACING = 24.0 IN./C

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

CSI: TC=0.31/0.97 (D-E:1), BC=0.06/0.97 (H-I:4),
WB=0.08/0.97 (D-I:1), SSI=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)	(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= 0.35 (E) (INPUT = 0.90)
JSI METAL = 0.12 (D) (INPUT = 1.00)

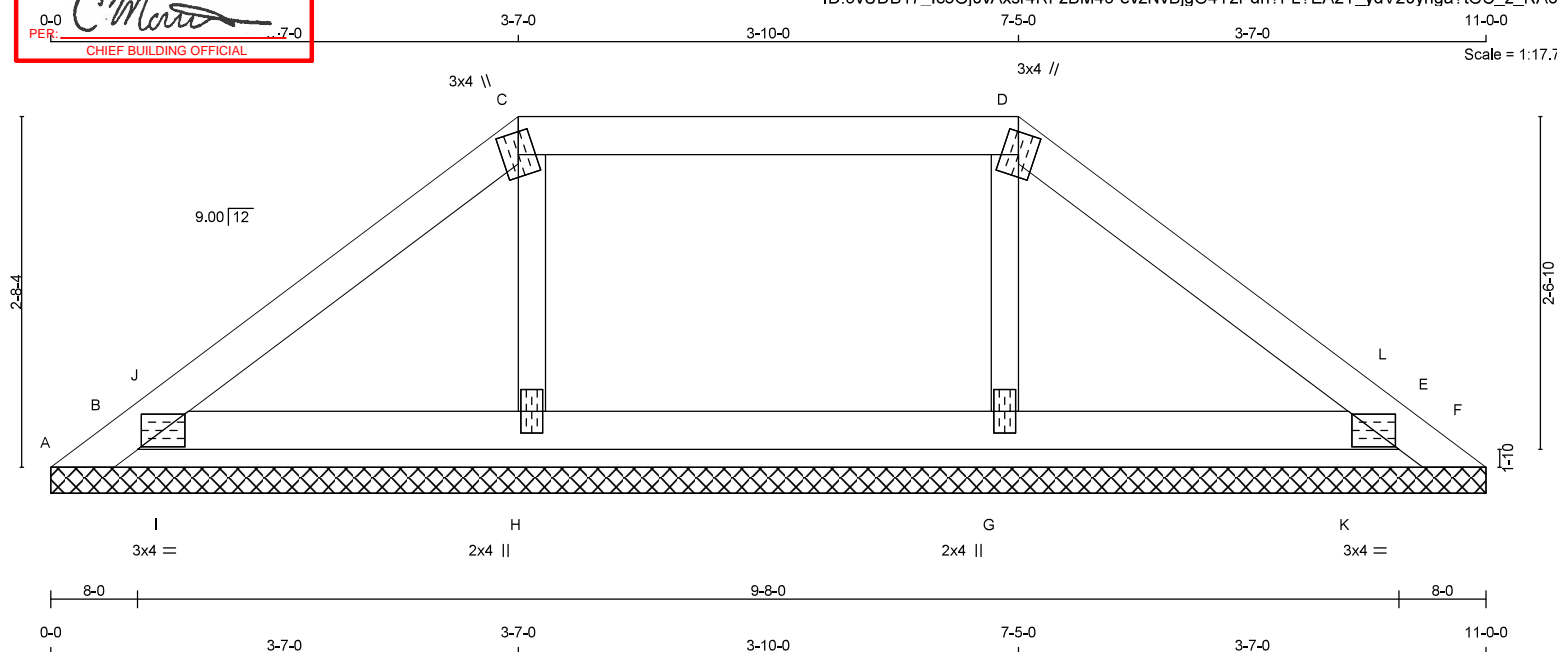


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0-0
PER: *C. M...*
CHIEF BUILDING OFFICIAL

1 MHP 23031



TOTAL WEIGHT = 29 lb

LUMBER

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

BEARING NOTE: GAP BETWEEN INSIDE OF TOP CHORD BEARING AND FIRST DIAGONAL OR VERTICAL WEB SHALL NOT EXCEED 0.5 INCHES.

GABLE STUDS SPACED AT 4'-0" OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TTW+m	MT20	3.0	4.0		
D	TTW+m	MT20	3.0	4.0		
E	TMB1-I	MT20	3.0	4.0		
G	BMW1+w	MT20	2.0	4.0		
H	BMW1+w	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.

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): G, H

PROVIDE ANCHORAGE AT BEARING JOINT A FOR 150 LBS. FACTORED UPLIFT

PROVIDE ANCHORAGE AT BEARING JOINT F FOR 150 LBS. FACTORED UPLIFT

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. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)
FR-TO				FR-TO			
A-B	0 / 82	-137.7	-137.7 0.13 (1)	10.00	G-D	-311 / 0	0.05 (1)
B-J	-146 / 0	-119.4	-119.4 0.11 (1)	6.25	H-C	-311 / 0	0.05 (1)
J-C	-100 / 0	-119.4	-119.4 0.10 (1)	6.25	I-J	-107 / 20	0.00 (1)
C-D	-54 / 0	-119.4	-119.4 0.30 (1)	6.25	K-L	-107 / 20	0.00 (1)
D-L	-100 / 0	-119.4	-119.4 0.10 (1)	6.25			
L-E	-146 / 0	-119.4	-119.4 0.11 (1)	6.25			
E-F	0 / 82	-137.7	-137.7 0.13 (1)	10.00			
B-I	0 / 69	-18.2	-18.2 0.06 (1)	10.00			
I-H	0 / 69	-18.2	-18.2 0.06 (1)	10.00			
H-G	0 / 54	-18.2	-18.2 0.05 (4)	10.00			
G-K	0 / 69	-18.2	-18.2 0.06 (1)	10.00			
K-E	0 / 69	-18.2	-18.2 0.06 (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 LOAD

CSI: TC=0.30/0.97 (C-D:1), BC=0.06/0.97 (H-I:1), WB=0.05/0.97 (D-G:1), SSI=0.18/1.00 (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 (PSI)	SECTION (PLI)
MT20	650	371	1747
		788	1987

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

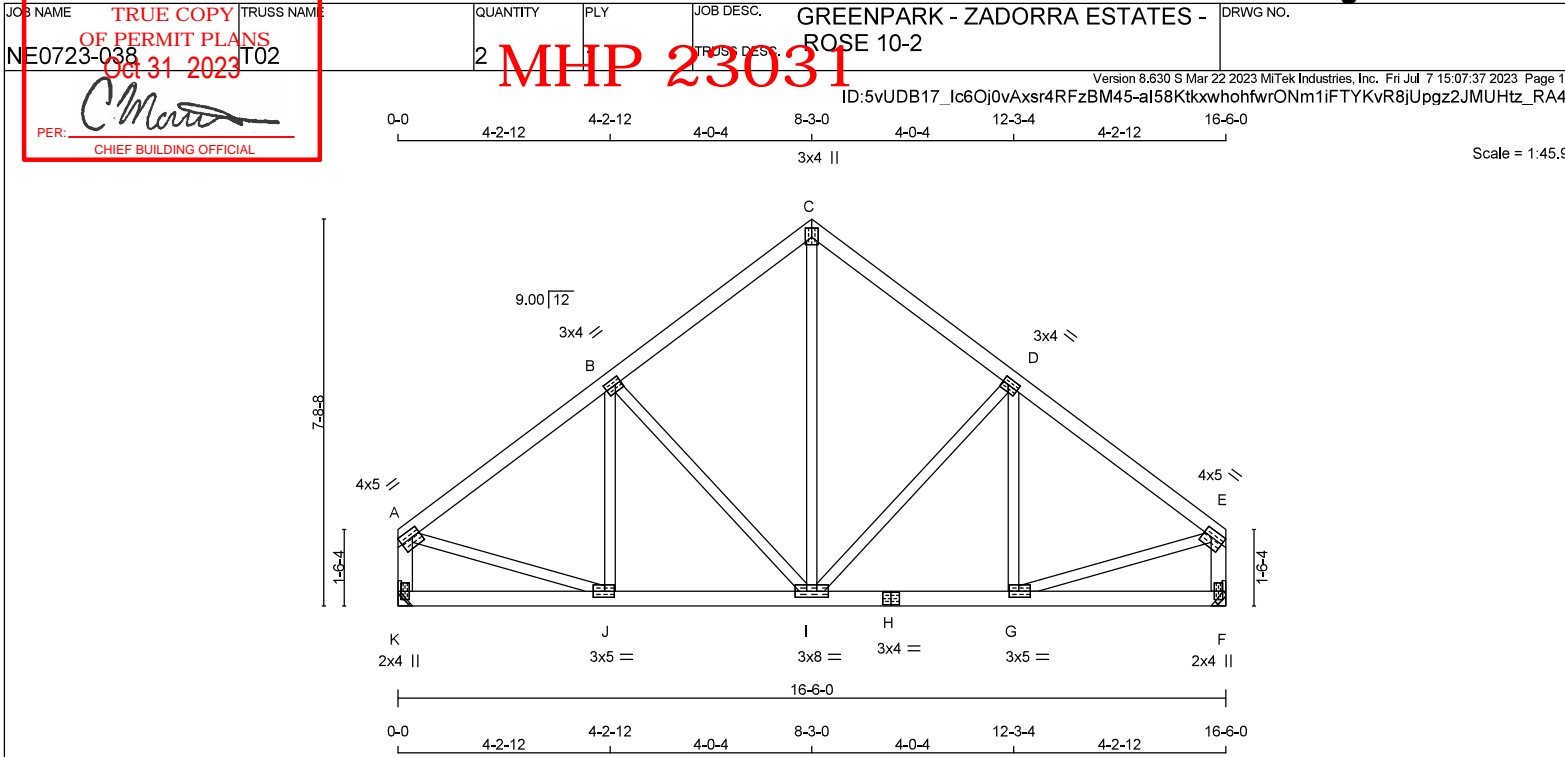
JSI GRIP= 0.42 (D) (INPUT = 0.90)
JSI METAL= 0.07 (E) (INPUT = 1.00)



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.



CORPORATION OF THE CITY OF OSHAWA
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OF PERMIT PLANS
06/31/2023
CHIEF BUILDING OFFICIAL



LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
K - A	2x4	DRY	No.2
F - E	2x4	DRY	No.2
K - H	2x4	DRY	No.2
H - F	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW4	MT20	4.0	5.0	1.75	Edge
B	TMVW4	MT20	3.0	4.0	1.50	1.50
C	TMV+p	MT20	3.0	4.0	2.25	1.50
D	TMVW4	MT20	3.0	4.0	1.50	1.50
E	TMVW4	MT20	4.0	5.0	1.75	Edge
F	BMV1+p	MT20	2.0	4.0		
G	BMVW4	MT20	3.0	5.0	1.50	2.25
H	BS-t	MT20	3.0	4.0		
I	BMVW4	MT20	3.0	5.0	1.50	2.25
J	BMVW4	MT20	3.0	5.0	1.50	2.25
K	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

FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT VERT	HORZ	DOWN	HORZ
K	1136	0	1136
F	1136	0	1136

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX./MIN. COMPONENT REACTIONS
K	794	574 / 0
F	794	574 / 0

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.74 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)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		
A-B	-1064 / 0	-119.4	-119.4	0.27 (1)	I-C	0 / 597	0.13 (1)
B-C	-833 / 0	-119.4	-119.4	0.28 (1)	I-D	-356 / 0	0.22 (1)
C-D	-833 / 0	-119.4	-119.4	0.28 (1)	G-D	-167 / 28	0.05 (1)
D-E	-1064 / 0	-119.4	-119.4	0.27 (1)	B-I	-356 / 0	0.22 (1)
K-A	-1102 / 0	0.0	0.0	0.12 (1)	J-B	-167 / 28	0.05 (1)
F-E	-1102 / 0	0.0	0.0	0.12 (1)	A-J	0 / 913	0.21 (1)
					G-E	0 / 913	0.21 (1)
K-J	0 / 0	-18.2	-18.2	0.07 (4)	10.00		
J-I	0 / 879	-18.2	-18.2	0.17 (1)	10.00		
I-H	0 / 879	-18.2	-18.2	0.17 (1)	10.00		
H-G	0 / 879	-18.2	-18.2	0.17 (1)	10.00		
G-F	0 / 0	-18.2	-18.2	0.07 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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 (0.55")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
 ALLOWABLE DEFL.(TL) = L/360 (0.55")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.27/0.97 (A-B:1), BC=0.17/0.97 (I-J:1),
 WB=0.22/0.97 (D-I: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 (PSI)	SECTION (PLI)
MT20	650	371	1747

PLATE PLACEMENT TOL. = 0.250 inches

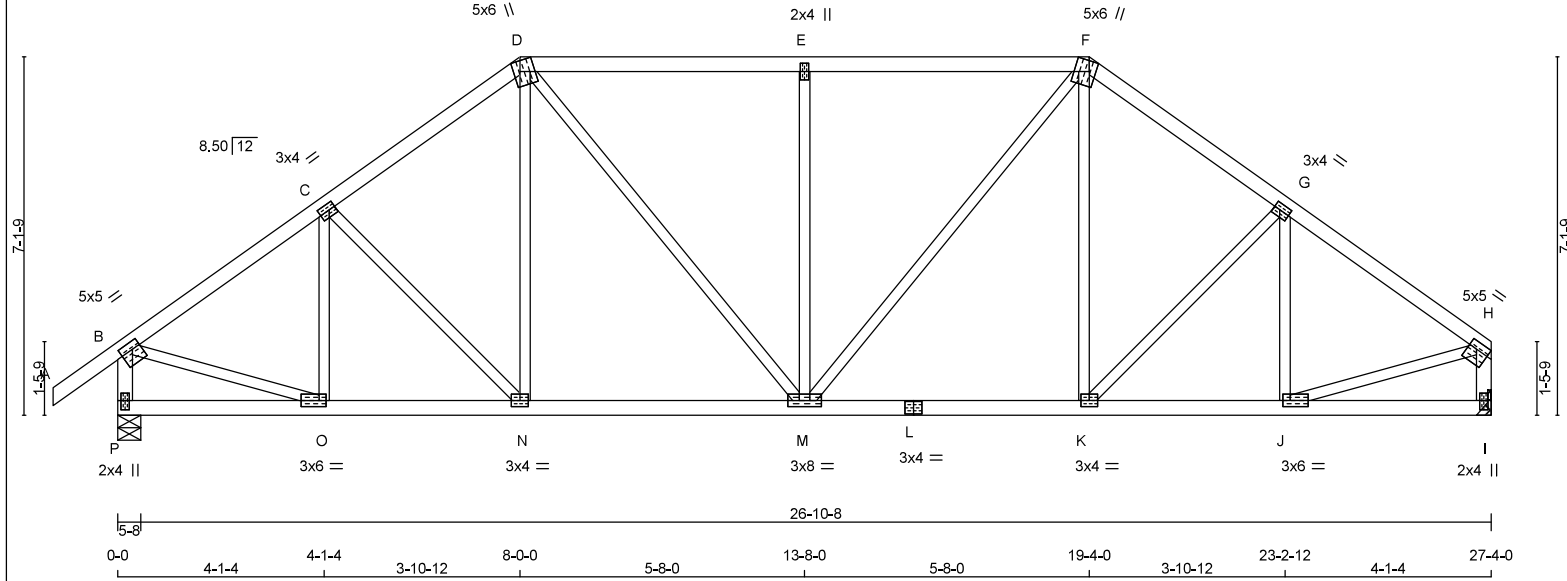
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (I) (INPUT = 0.90)
 JSI METAL= 0.35 (A) (INPUT = 1.00)



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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW4	MT20	5.0	5.0	1.75 2.00
C	TMVW4	MT20	3.0	4.0	1.50 1.50
D	TMVW4	MT20	5.0	6.0	Edge 1.50
E	TMVW4	MT20	2.0	4.0	
F	TMVW4	MT20	5.0	6.0	Edge 1.50
G	TMVW4	MT20	3.0	4.0	1.50 1.50
H	TMVW4	MT20	5.0	5.0	1.75 2.00
I	BMV1+p	MT20	2.0	4.0	2.25 1.00
J	BMVW4	MT20	3.0	6.0	1.50 1.75
K	BMVW4	MT20	3.0	4.0	
L	BS4	MT20	3.0	4.0	
M	BMVW4	MT20	3.0	8.0	
N	BMVW4	MT20	3.0	4.0	
O	BMVW4	MT20	3.0	6.0	1.50 1.75
P	BMV1+p	MT20	2.0	4.0	2.25 1.00

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



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.

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
P	2046	0	2046	0	0	5-8	3-2
I	1882	0	1882	0	0	MECHANICAL	

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT I. MINIMUM BEARING LENGTH AT JOINT I = 2-10.

UNFACTORED REACTIONS		1ST LOASE		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
P	1427	1047 / 0	0 / 0	0 / 0	380 / 0
I	1315	951 / 0	0 / 0	0 / 0	364 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.13 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)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO	FROM TO	FR-TO	FROM TO
A-B	0 / 47	C-C	-397 / 0
B-C	-2027 / 0	D-D	0 / 211
C-D	-1954 / 0	E-E	-828 / 0
D-E	-1954 / 0	F-F	0 / 605
E-F	-1954 / 0	G-G	-164 / 0
F-G	-1954 / 0	H-H	-397 / 0
G-H	-2027 / 0	I-I	0 / 1743
H-I	-2011 / 0	J-J	0 / 1743
I-H	-1846 / 0		
P-O	0 / 0		
O-N	0 / 1679		
N-M	0 / 1567		
M-L	0 / 1567		
L-K	0 / 1567		
K-J	0 / 1679		
J-I	0 / 0		

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 (0.13")

CSI: TC=0.54/0.97 (E-F:1) , BC=0.32/0.97 (N-O:1) ,
WB=0.73/0.97 (E-M:1) , SI=0.33/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

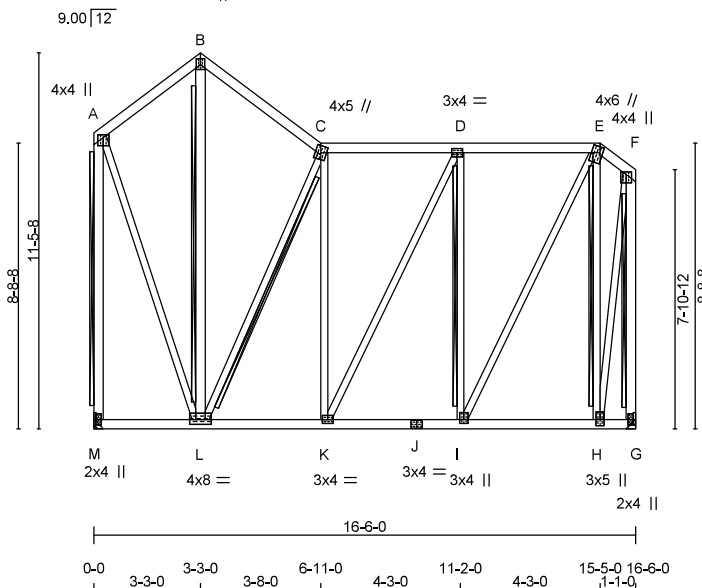
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (B) (INPUT = 0.90)
JSI METAL = 0.65 (H) (INPUT = 1.00)



0-0 3-3-0 3-3-0 3-8-0 4-3-0 11-2-0 4-3-0 15-5-0 16-6-0
3x4 ||

Scale = 1:70.2



TOTAL WEIGHT = 127 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
A - B	2x4	DRY No.2
B - C	2x4	DRY No.2
C - E	2x4	DRY No.2
E - F	2x4	DRY No.2
M - A	2x4	DRY No.2
G - F	2x4	DRY No.2
M - J	2x4	DRY No.2
J - G	2x4	DRY No.2
ALL WEBS EXCEPT L - B	2x3	DRY No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	4.0	1.00	2.00
B	TTW+p	MT20	3.0	4.0	2.25	1.50
C	TTWV+m	MT20	4.0	5.0		
D	TMVW+H	MT20	3.0	4.0		
E	TTWV+m	MT20	4.0	6.0	2.00	1.00
F	TMVW+p	MT20	4.0	4.0	1.00	2.00
G	BMV1+p	MT20	2.0	4.0		
H	BMVW+t	MT20	3.0	5.0	2.25	1.50
I	BMVW+t	MT20	3.0	4.0	1.50	1.50
J	BS4	MT20	3.0	4.0		
K	BMVW+H	MT20	3.0	4.0		
L	BMVWV+H	MT20	4.0	8.0	1.75	4.00
M	BMV1+p	MT20	2.0	4.0		

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
M	1136	0	1136	0
G	1136	0	1136	0

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS
M	COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
M	794	574 / 0 0 / 0 0 / 0 219 / 0 0 / 0
G	794	574 / 0 0 / 0 0 / 0 219 / 0 0 / 0

BRACING

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

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

2x4 DRY SPF No.2 T-BRACE AT B-L, C-L, D-I, E-H, A-M, F-G

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 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)	
FR-TO		FROM TO		FR-TO			
A-B	-334 / 0	-119.4 -119.4	0.22 (1)	6.25	L-B	-13 / 53	0.01 (4)
B-C	-334 / 0	-119.4 -119.4	0.28 (1)	6.25	L-C	-691 / 0	0.46 (1)
C-D	-544 / 0	-119.4 -119.4	0.36 (1)	6.25	K-C	0 / 58	0.02 (4)
D-E	-521 / 0	-119.4 -119.4	0.36 (1)	6.25	K-D	0 / 53	0.01 (1)
E-F	-185 / 0	-119.4 -119.4	0.02 (1)	6.25	I-D	-671 / 0	0.37 (1)
M-A	-1110 / 0	0.0 0.0	0.56 (1)	7.81	I-E	0 / 854	0.19 (1)
G-F	-1114 / 0	0.0 0.0	0.41 (1)	7.81	H-E	-909 / 0	0.50 (1)
					A-L	0 / 764	0.17 (1)
					H-F	0 / 948	0.21 (1)
M-L	0 / 0	-18.2 -18.2	0.05 (4)	10.00			
L-K	0 / 544	-18.2 -18.2	0.11 (1)	10.00			
K-J	0 / 521	-18.2 -18.2	0.12 (1)	10.00			
J-I	0 / 521	-18.2 -18.2	0.12 (1)	10.00			
I-H	0 / 136	-18.2 -18.2	0.08 (4)	10.00			
H-G	0 / 0	-18.2 -18.2	0.03 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.55")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.55")
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.56/0.97 (A-M:1) , BC=0.12/0.97 (I-K:1) ,
WB=0.50/0.97 (E-H:1) , SS=0.25/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

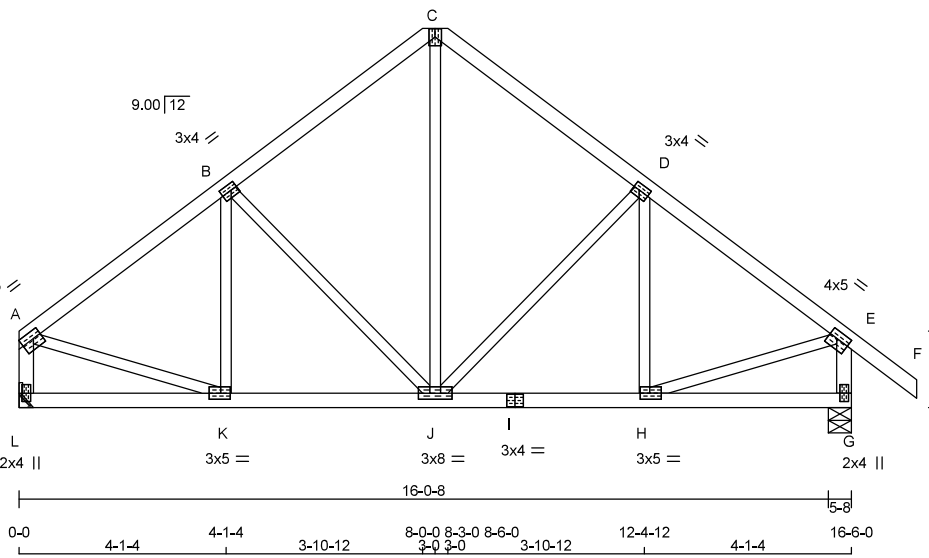
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (H) (INPUT = 0.90)
JSI METAL = 0.25 (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 = 75 lb

(M/F)

LUMBER

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

ALL WEBS 2x3 DRY No.2 EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW4	MT20	4.0	5.0	1.75	Edge
B	TMVW4	MT20	3.0	4.0	1.50	1.50
C	TMVW4-p	MT20	3.0	4.0		
D	TMVW4	MT20	3.0	4.0	1.50	1.50
E	TMVW4	MT20	4.0	5.0	1.75	2.00
G	BMV1-p	MT20	2.0	4.0		
H	BMVW4	MT20	3.0	5.0	1.50	2.25
I	BS-t	MT20	3.0	4.0		
J	BMVW4	MT20	3.0	5.0		
K	BMVW4	MT20	3.0	5.0	1.50	2.25
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	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	HORZ	DOWN	HORZ
L 1136	0	1136	0
G 1301	0	1301	0

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	794	574 / 0	0 / 0	0 / 0	0 / 0	219 / 0	0 / 0
G	906	670 / 0	0 / 0	0 / 0	0 / 0	236 / 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 = 5.74 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)

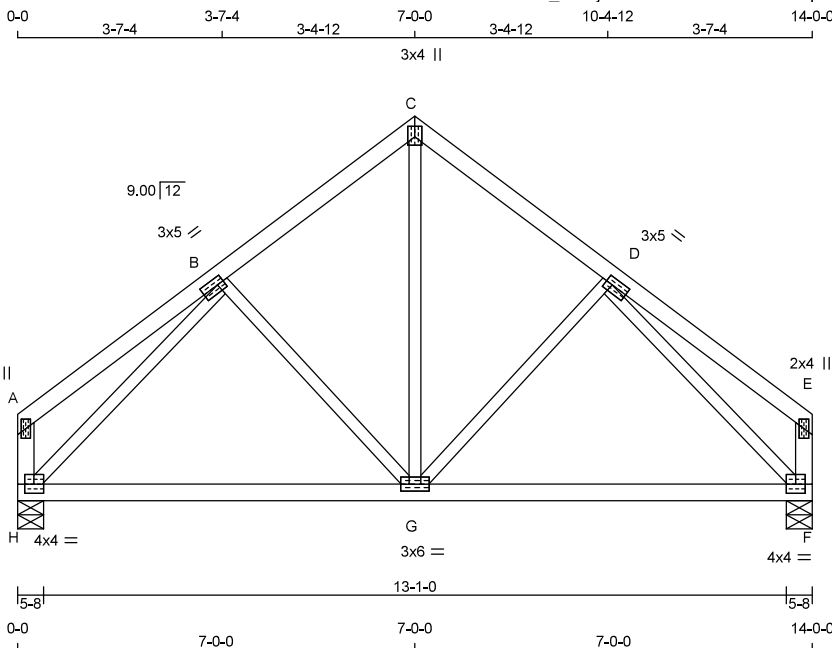
CHORDS					WEBS				
MAX. FACTORED		FACTORED			MAX. FACTORED				
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX CSI (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	TO		LENGTH	FR-TO			
A-B	-1066 / 0	-119.4	-119.4	0.27 (1)	5.74	K-B	-176 / 25	0.06 (1)	
B-C	-832 / 0	-119.4	-119.4	0.26 (1)	6.25	B-J	-349 / 0	0.21 (1)	
C-D	-832 / 0	-119.4	-119.4	0.26 (1)	6.25	J-D	-349 / 0	0.21 (1)	
D-E	-1066 / 0	-119.4	-119.4	0.27 (1)	5.74	H-D	-176 / 25	0.06 (1)	
E-F	0 / 49	-119.4	-119.4	0.16 (1)	10.00	A-K	0 / 918	0.21 (1)	
L-A	-1103 / 0	0.0	0.0	0.12 (1)	7.45	H-E	0 / 918	0.21 (1)	
G-E	-1268 / 0	0.0	0.0	0.13 (1)	7.06	J-C	0 / 578	0.13 (1)	
L-K	0 / 0	-18.2	-18.2	0.07 (4)	10.00				
K-J	0 / 881	-18.2	-18.2	0.17 (1)	10.00				
J-I	0 / 881	-18.2	-18.2	0.17 (1)	10.00				
I-H	0 / 881	-18.2	-18.2	0.17 (1)	10.00				
H-G	0 / 0	-18.2	-18.2	0.07 (4)	10.00				

CORPORATION OF THE CITY OF OSHAWA
 JOB NAME: TRUE COPY OF PERMIT PLANS
 TRUSS NAME: T21
 NE0723-038
 OCT 31 2023
 PER: 
 CHIEF BUILDING OFFICIAL

QUANTITY: 1
 PLY: 1
 JOB DESC.: GREENPARK - ZADORRA ESTATES - ROSE 10-2
 TRUSS DESC.: ROSE 10-2

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Fri Jul 7 15:07:48 2023 Page 1

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Scale = 1:40.6

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
A - C	2x4	DRY No.2
C - E	2x4	DRY No.2
H - A	2x4	DRY No.2
F - E	2x4	DRY No.2
H - F	2x4	DRY No.2
ALL WEBS EXCEPT	2x3	DRY No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	2.0	4.0		
B	TMVW-H	MT20	3.0	5.0	1.50	1.50
C	TTV+p	MT20	3.0	4.0	2.25	1.50
D	TMVW-H	MT20	3.0	5.0	1.50	1.50
E	TMV+p	MT20	2.0	4.0		
F	BMVW1-H	MT20	4.0	4.0		
G	BMVW-H	MT20	3.0	6.0		
H	BMVW1-H	MT20	4.0	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	DOWN	UPLIFT	IN-SX
H 964	0	5-8	1-8
F 964	0	5-8	1-8

UNFACTORED REACTIONS

1ST CASE	MAX/MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
H 674	487 / 0 0 / 0 0 / 0 0 / 0 186 / 0 0 / 0
F 674	487 / 0 0 / 0 0 / 0 0 / 0 186 / 0 0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 29	-119.4 -119.4	0.23 (1)	10.00	G-C	0 / 484	0.11 (1)
B-C	-703 / 0	-119.4 -119.4	0.18 (1)	6.25	G-D	-223 / 0	0.10 (1)
C-D	-703 / 0	-119.4 -119.4	0.18 (1)	6.25	B-G	-223 / 0	0.10 (1)
D-E	0 / 29	-119.4 -119.4	0.23 (1)	10.00	H-B	-1023 / 0	0.44 (1)
H-A	-160 / 0	0.0 0.0	0.02 (1)	7.81	D-F	-1023 / 0	0.44 (1)
F-E	-160 / 0	0.0 0.0	0.02 (1)	7.81			
H-G	0 / 691	-18.2 -18.2	0.30 (4)	10.00			
G-F	0 / 691	-18.2 -18.2	0.30 (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 (0.47")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
 ALLOWABLE DEFL.(TL) = L/360 (0.47")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.23/0.97 (D-E:1) , BC=0.30/0.97 (F-G:4) ,
 WB=0.44/0.97 (D-F:1) , SSI=0.16/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

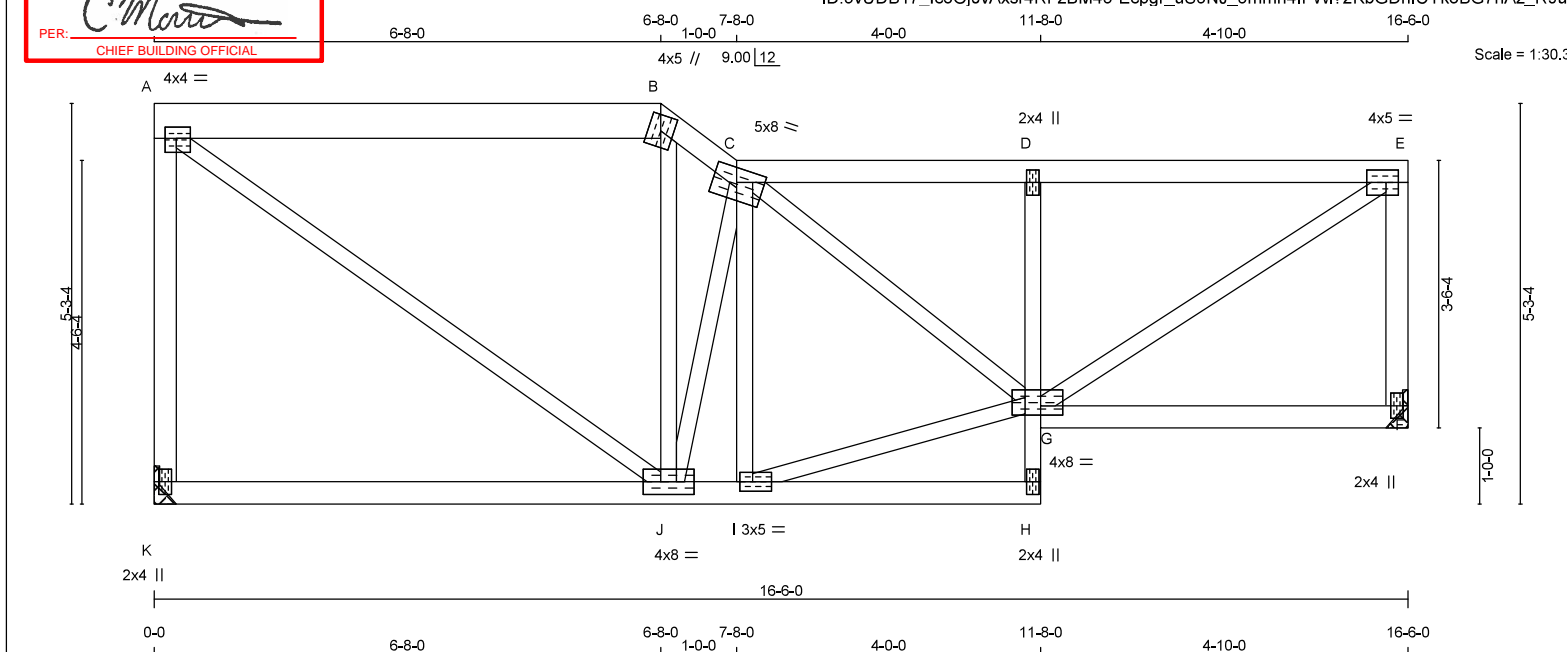
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (D) (INPUT = 0.90)
 JSI METAL = 0.28 (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
K - A	2x4	DRY	No.2
A - B	2x6	DRY	No.2
B - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
F - E	2x4	DRY	No.2
K - H	2x4	DRY	No.2
H - D	2x3	DRY	No.2
G - F	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-H	MT20	4.0	4.0	1.75	1.75
B	TTWV+m	MT20	4.0	5.0		
C	TTWVW+m	MT20	5.0	8.0	2.25	3.75
D	TMV+p	MT20	2.0	4.0		
E	TMVW-H	MT20	4.0	5.0	2.00	2.00
F	BMV1+p	MT20	2.0	4.0		
G	BMVWVW-H	MT20	4.0	8.0	1.50	3.50
H	BMV+p	MT20	2.0	4.0		
I	BMVW-H	MT20	3.0	5.0	1.50	2.00
J	BMVWVW-H	MT20	4.0	8.0		
K	BMV1+p	MT20	2.0	4.0		

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

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
K	1136	0	1136	0
F	1136	0	1136	0

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX./MIN. COMPONENT REACTIONS
K	794	574 / 0
F	794	574 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.04 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 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. UNBRAC LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH (LC)
FR-TO				FR-TO		
K-A	-1086 / 0	0.0	0.0	A-J	0 / 1169	0.26 (1)
A-B	-847 / 0	-119.4	-119.4	J-B	0 / 220	0.05 (1)
B-C	-1166 / 0	-119.4	-119.4	C-B	-758 / 0	0.23 (1)
C-D	-1298 / 0	-119.4	-119.4	D-C	-322 / 0	0.10 (1)
D-E	-1303 / 0	-119.4	-119.4	E-D	0 / 1122	0.25 (1)
F-E	-1091 / 0	0.0	0.0	G-E	0 / 255	0.06 (1)
K-J	0 / 0	-18.2	-18.2	J-I	0 / 1557	0.35 (1)
J-I	0 / 1109	-18.2	-18.2	I-H	0 / 17	0.05 (1)
I-H	0 / 17	-18.2	-18.2	H-G	0 / 34	0.05 (1)
H-G	0 / 34	0.0	0.0	G-D	-649 / 0	0.09 (1)
G-D	-649 / 0	0.0	0.0	D-F	0 / 0	-18.2
D-F	0 / 0	-18.2	-18.2	F-E	0 / 0	-18.2

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 = 2.40 IN./C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF 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 (0.55")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.55")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.48/0.97 (A-K:1) , BC=0.29/0.97 (I-J:1) , WB=0.35/0.97 (E-G:1) , SSI=0.27/1.00 (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) (PL)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

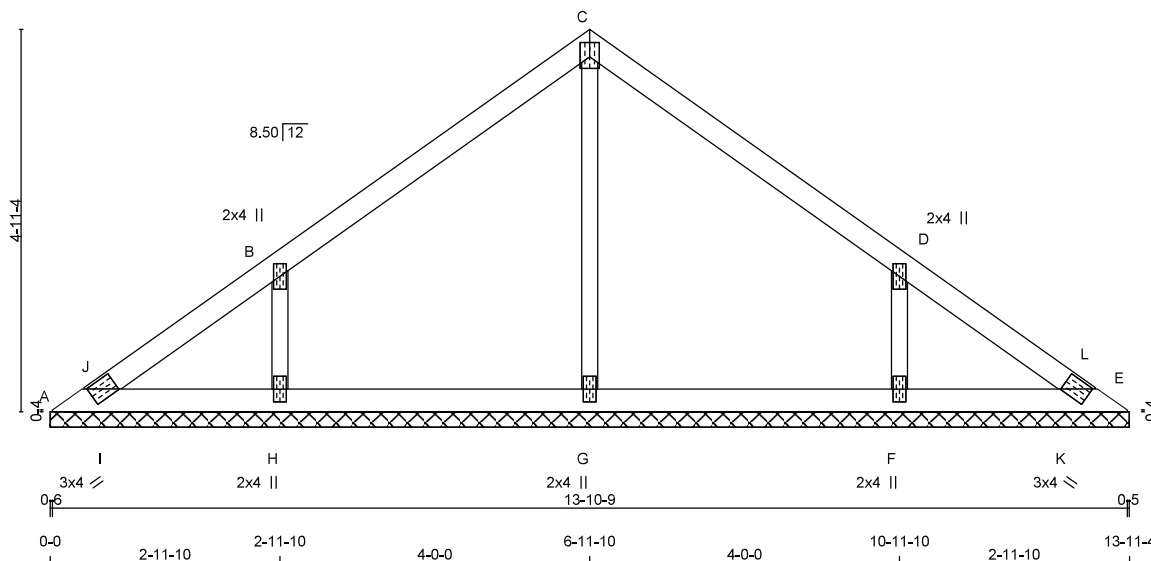
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (I) (INPUT = 0.90)
JSI METAL = 0.39 (G) (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 = 40 lb

LUMBER

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

ALL WEBS 2x3 DRY
 DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TBM1-h	MT20	3.0	4.0		
B	TTW+w	MT20	2.0	4.0		
C	TTW+p	MT20	3.0	4.0	2.25	1.50
D	TTW+w	MT20	2.0	4.0		
E	TBM1-h	MT20	3.0	4.0		
F, G, H	BMW1+w	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
A	155	0	155	0	0	13-11-4 (13-10-8)	
E	155	0	155	0	0	13-11-4 (13-10-8)	
G	416	0	416	0	0	13-11-4 (13-10-8)	
H	593	0	593	0	0	13-11-4 (13-10-8)	
F	593	0	593	0	0	13-11-4 (13-10-8)	

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
A	108	81 / 0	0 / 0	0 / 0	0 / 0	27 / 0	0 / 0
E	108	81 / 0	0 / 0	0 / 0	0 / 0	27 / 0	0 / 0
G	294	193 / 0	0 / 0	0 / 0	0 / 0	100 / 0	0 / 0
H	413	305 / 0	0 / 0	0 / 0	0 / 0	108 / 0	0 / 0
F	413	305 / 0	0 / 0	0 / 0	0 / 0	108 / 0	0 / 0

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO						FR-TO		
A-J	-88 / 0	-119.4	-119.4	0.05 (1)	6.25	G-C	-345 / 0	0.12 (1)
J-B	-7 / 7	-119.4	-119.4	0.27 (1)	10.00	H-B	-511 / 0	0.08 (1)
B-C	-69 / 0	-119.4	-119.4	0.27 (1)	6.25	F-D	-511 / 0	0.08 (1)
C-D	-69 / 0	-119.4	-119.4	0.27 (1)	6.25	I-J	-20 / 7	0.00 (1)
D-L	-7 / 7	-119.4	-119.4	0.27 (1)	10.00	K-L	-20 / 7	0.00 (1)
L-E	-88 / 0	-119.4	-119.4	0.05 (1)	6.25			
A-I	0 / 53	-18.3	-18.3	0.04 (1)	10.00			
I-H	0 / 59	-18.2	-18.2	0.05 (4)	10.00			
H-G	0 / 33	-18.2	-18.2	0.08 (4)	10.00			
G-F	0 / 33	-18.2	-18.2	0.08 (4)	10.00			
F-K	0 / 59	-18.2	-18.2	0.05 (4)	10.00			
K-E	0 / 53	-18.2	-18.2	0.04 (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

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

CSI: TC=0.27/0.97 (C-D-1), BC=0.06/0.97 (G-H-4), WB=0.12/0.97 (C-G-1), SS=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 (PSI)	SECTION (PLI)
MT20	650	371	1747
			788
			1987
			1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

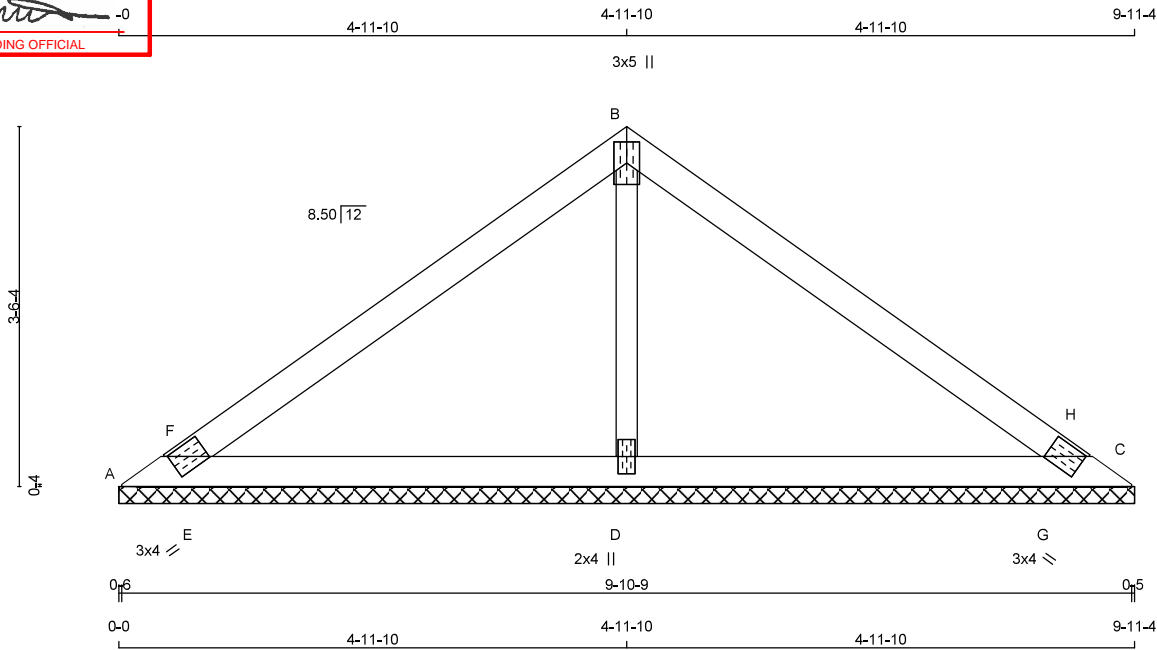
JSI GRIP= 0.34 (B) (INPUT = 0.90)

JSI METAL= 0.27 (B) (INPUT = 1.00)



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





TOTAL WEIGHT = 26 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE		LUMBER
A - B	2x4	DRY	No.2
B - C	2x4	DRY	No.2
A - C	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
A	TBM1-h	MT20	3.0	4.0		
B	TTW+p	MT20	3.0	5.0		
C	TBM1-h	MT20	3.0	4.0		
D	BMW1+w	MT20	2.0	4.0		

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

DESIGNER

BEARINGS			FACTORED			MAXIMUM FACTORED			INPUT		REQD	
JT	GROSS REACTION		GROSS REACTION			GROSS REACTION			BRG	BRG		
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-XX	IN-XX					
A	33	0	33	0	0	9-11-4	(9-10-9)-11					
C	33	0	33	0	0	9-11-4	(9-10-9)-11					
D	1295	0	1295	0	0	9-11-4	(9-10-9)-11					

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
A	23	16 / 0	0 / 0	0 / 0	0 / 0	8 / 0	0 / 0
C	23	16 / 0	0 / 0	0 / 0	0 / 0	8 / 0	0 / 0
D	905	657 / 0	0 / 0	0 / 0	0 / 0	248 / 0	0 / 0

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

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					WEBBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX CSI (LC)		
FR-TO		FROM TO		LENGTH	FR-TO				
A- F	0 / 535	-119.4	-119.4	0.22 (1)	10.00	D- B	-1052 / 0	0.21 (1)	
F- B	0 / 506	-119.4	-119.4	0.37 (1)	10.00	E- F	-365 / 0	0.00 (1)	
B- H	0 / 506	-119.4	-119.4	0.37 (1)	10.00	G- H	-365 / 0	0.00 (1)	
H- C	0 / 535	-119.4	-119.4	0.22 (1)	10.00				
A- E	-479 / 0	-18.2	-18.2	0.26 (1)	6.25				
E- D	-425 / 0	-18.2	-18.2	0.26 (1)	6.25				
D- G	-425 / 0	-18.2	-18.2	0.26 (1)	6.25				
G- C	-479 / 0	-18.2	-18.2	0.26 (1)	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/C

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

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

CSI: TC=0.37/0.97 (B-H:1), BC=0.26/0.97 (D-G:1),
WB=0.21/0.97 (B-D:1), SSI=0.19/1.00 (C-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY) (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= 0.59 (B) (INPUT = 0.90)
JSI METAL= 0.22 (D) (INPUT = 1.00)



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