

10/12 SLOPE FROM EACH END SLOPES
UP TO 30" HIGHER CEILING HEIGHT



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

Hanger Name	Symbol	QTY
LUS24	▲	4
HGUS26-2	■	2

CONVENTIONAL FRAMING BY OTHERS

ALL CONVENTIONAL FRAMING TO CONFORM WITH PART 9 OF THE OBC. ROOF RAFTERS THAT CROSS OVER TRUSSES TO BE MIN. 2x4 SIF @ 24" C/C WITH A 2x4 VERTICAL POST TO THE TRUSS BELOW. VERTICAL POSTS TO BE LATERALLY BRACED SO THAT UNBRACED LENGTH DOES NOT EXCEED 6'. DESIGN OF CONVENTIONAL FRAMING IS THE RESPONSIBILITY OF THE PROJECT ENGINEER.

JOB INFORMATION

Customer	GREENPARK HOMES
Job #	20-00416R0
Address	TRINAR HALL EAST GWILLIMBURY, ON
Model	LOT 19
Sales Rep	RALPH MIRIGELLO
Designer	KR
Date	12/16/2020
Path	C:\MITE\CA\JOBS\GREENPARK HOMES\TRINAR HALL\LOT 19\T-LOT19A

DESIGN INFORMATION

Code	NBCC 2015
Bldg	Residential - HSB (NBCC Part 9)
TC LL	34.8 lb/ft ²
TC DL	8.0 lb/ft ²
BC LL	10.5 lb/ft ²
BC DL	7.3 lb/ft ²
Deflection	LL=L/360 TL=L/360
Spacing	24" O/C unless otherwise noted
Complies With	OBC 2012 (2019 Amendment) CSA O86-14 and TPIC 2014

IMPORTANT INFORMATION

Refer to truss drawings in the Truss Engineering Package for ply-to-ply attachment notes

For site-framed valleys: top chords of all roof trusses must be laterally supported using 2x4 continuous bracing @24 O/C - all bracing must be anchored at ends as per TPIC Installation Guidelines

Read all notes on this page in addition to those shown on the KOTT Truss Engineering package

Field erection, handling and bracing are not the responsibility of KOTT, or KOTT Engineering

Unless noted otherwise, hurricane ties are to be installed at the bearings of all trusses > 40 ft clear span, and any girder or beam supporting trusses with a clear span >40 ft. See hanger legend for type.

Unless noted otherwise, for Part 9 bldgs, all trusses are to be anchored to the top of supporting walls as follows: trusses with a clear span <40 ft use 3-1/4" nails @ each bearing; trusses with a clear span >40 ft use 3-1/4" nails @ each bearing in addition to the appropriate hurricane tie.

KOTT Inc.
14 Anderson Blvd.
Uxbridge, ON
905.642.4400



NE1220-115
 GREENPARK - TRINAR
 HALL - LOT 19

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Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

ENGINEERING NOTE PAGE (ENP-1)

PLEASE READ PRIOR TO INSTALLATION

RESPONSIBILITIES

THIS DESIGN IS FOR AN INDIVIDUAL BUILDING COMPONENT AND HAS BEEN BASED ON INFORMATION PROVIDED BY KOTT DESIGN. THE UNDERSIGNED ENGINEER DISCLAIMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF FAULTY OR INCORRECT INFORMATION, SPECIFICATION AND/OR DESIGNS FURNISHED TO THE ENGINEER. THE UNDERSIGNED ENGINEER IS ONLY RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THIS BUILDING COMPONENT FOR THE CONDITIONS AND LOADS SHOWN ON THIS DRAWING. THE STRUCTURAL INTEGRITY OF THE BUILDING AND THE VERIFICATION OF THE DIMENSIONS AND THE DESIGN LOADS USED ARE THE RESPONSIBILITY OF THE BUILDING DESIGNER.

TRUSSES ARE DESIGNED IN CONFORMANCE WITH THE RELEVANT SECTIONS OF THE NATIONAL BUILDING CODE OF CANADA OR THE CANADIAN CODE FOR FARM BUILDINGS, WHICHEVER APPLIES TO THE BUILDING TYPE INDICATED ON THE DRAWING

IT IS THE RESPONSIBILITY OF KOTT TO ENSURE THAT TRUSSES ARE MANUFACTURED IN CONFORMANCE WITH THESE DESIGNS AND WITH THE SPECIFICATIONS OUTLINED BELOW. THE UNDERSIGNED ENGINEER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

USE AND OCCUPANCY

- The building is of the type indicated on the drawing

LOADING

- The truss loading intensity and distribution as well as load transfer mechanism is that indicated on the drawing
- No buildings, trees, parapets or other projections higher than the roof for which the trusses are used are located within a distance less than ten (10) times the difference in height, or five metres (16 ft) whichever is greater, unless the drawing indicates that the snow drifting has been taken into account

HANDLING, INSTALLATION AND BRACING

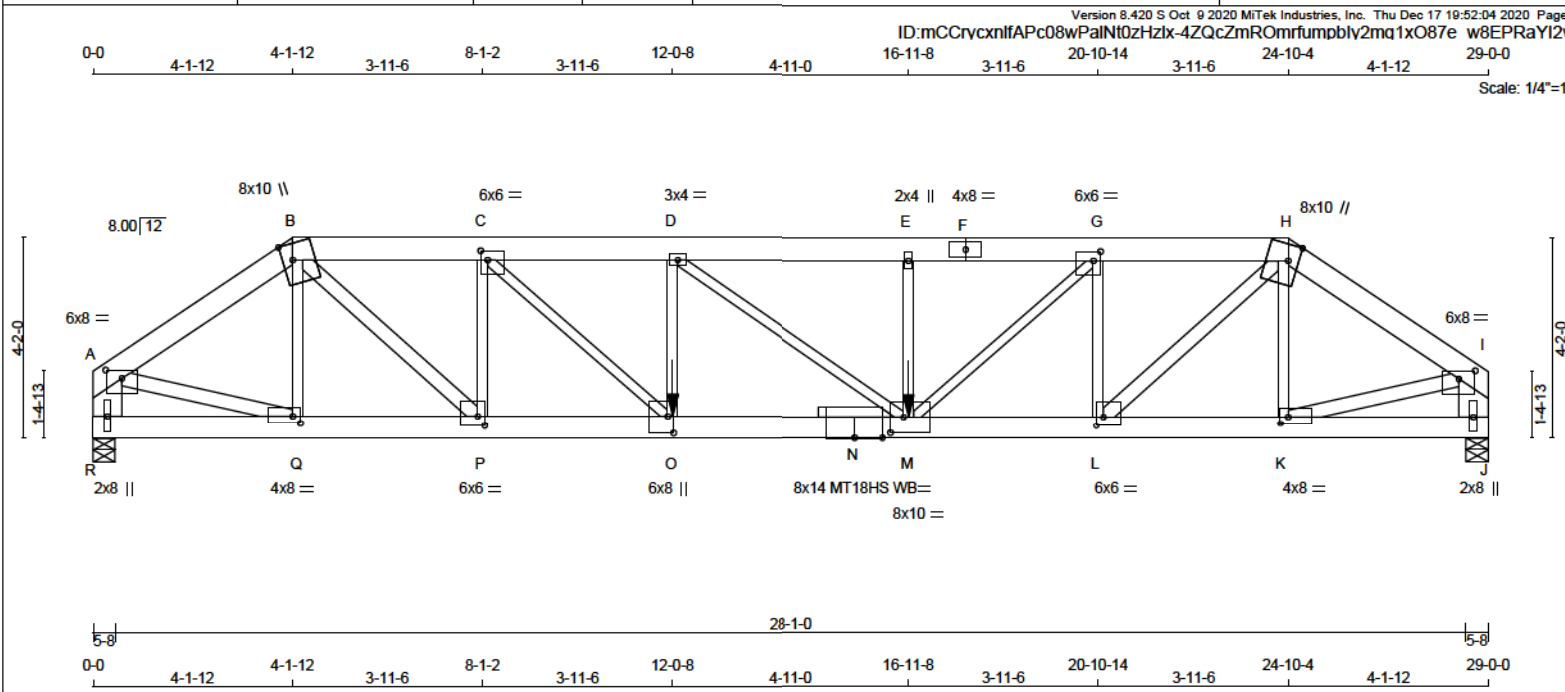
- The trusses must be handled and installed by a qualified professional as per the supplied document titled *Information for Truss Installers* and the BCSI-B1 and BCSI-B3 Summary Sheets
- The compression chords are laterally braced by continuous rigid diaphragm sheathing or as specified on the drawing
- Temporary and permanent bracing must be installed as indicated on the truss drawing and according to the BCSI-B1 and BCSI-B3 Summary Sheets. Bracing for the lateral stability of the truss is to be provided by the building designer
- **It is recommended that a Professional Engineer's advice be obtained for the bracing of trusses spanning more than 12.37m (40'-7")**

SUPPORTS

- The trusses are to be supported at the bearing points indicated and anchored to the supports where considered necessary by the designer of the overall structure
- Bearing sizes shown are the minimum required to prevent crushing of the truss members and do not necessarily take into account stability of the overall building structure
- Elevation of bearings must be carefully checked and shimmed to alignment for solid bearings
- Adequate wood truss bearing is the responsibility of the building designer.

DIMENSIONS

- Geometry of the truss and dimensions indicated on the drawing are identical to those of the installed truss.



LUMBER				LUMBER	
N.L. G. A. RULES					
CHORDS	SIZE				DESCR.
A - B	2x6	DRY	2100F 1.8E		SPF
B - F	2x6	DRY	2100F 1.8E		SPF
F - H	2x6	DRY	2100F 1.8E		SPF
H - I	2x6	DRY	2100F 1.8E		SPF
R - A	2x8	DRY	No.2		SPF
J - I	2x8	DRY	No.2		SPF
R - N	2x6	DRY	2100F 1.8E		SPF
N - J	2x6	DRY	2100F 1.8E		SPF
ALL WEBS EXCEPT			No.2		SPF
B - P	2x4	DRY	No.2		SPF
L - H	2x4	DRY	No.2		SPF
A - Q	2x4	DRY	No.2		SPF
K - I	2x4	DRY	No.2		SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
PLATE	TYPE	PLATES	W	LEN	Y X
A	TWVW-p	MT20	8.0	8.0	2.00 4.00
B	TWVW+m	MT20	8.0	10.0	Edge 2.50
C	TWVW-t	MT20	6.0	6.0	2.25 1.75
D	TWVW-t	MT20	3.0	4.0	
E	TWVW+w	MT20	2.0	4.0	
F	TS-t	MT20	4.0	8.0	
G	TWVW-t	MT20	6.0	6.0	2.25 1.75
H	TWVW+m	MT20	8.0	10.0	Edge 2.50
I	TWVW-p	MT20	6.0	8.0	2.00 4.00
J	BMV1+p	MT20	2.0	8.0	
K	BMVW-t	MT20	4.0	8.0	1.75 2.00
L	BMVW-t	MT20	6.0	6.0	2.25 1.75
M	BMVWVW-t	MT20	8.0	10.0	4.25 3.25
N	BS-t	MT18HS	8.0	14.0	
O	BMVW+t	MT20	6.0	4.0	4.25 1.50
P	BMVW-t	MT20	6.0	6.0	2.25 1.75
Q	BMVW-t	MT20	4.0	8.0	1.75 2.00
R	BMV1+p	MT20	2.0	8.0	

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

WB - INDICATES BLOCKING REQUIRED

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

BEARINGS							
	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
R	4146	0	4146	0	0	5-8	4-8
J	4146	0	4146	0	0	5-8	4-8

UNFACTORED REACTIONS

UNFACTORED REACTIONS							
1ST LOASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	3059	1783 / 0	570 / 0	0 / 0	0 / 0	894 / 0	0 / 0
J	3059	1783 / 0	570 / 0	0 / 0	0 / 0	894 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.12 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		LOAD L1	MAX. UNBRAC	MAX. FACTORED		MAX. CSI (LC)	
MEMB.	(LBS)	VERT. LOAD	(PLF)			MEMB.	FORCE (LBS)		
FR-TO		FROM TO			LENGTH	FR-TO			
A-B	-5211 / 0	-124.4	-124.4	0.16 (1)	4.54	Q-B	-733 / 0	0.18 (1)	
B-C	-7634 / 0	-124.4	-124.4	0.21 (1)	3.84	B-P	0 / 4556	0.81 (1)	
C-D	-10272 / 0	-124.4	-124.4	0.30 (1)	3.29	P-C	-2917 / 0	0.71 (1)	
D-E	-10257 / 0	-234.6	-234.6	0.18 (1)	3.12	C-D	0 / 3621	0.90 (1)	
E-F	-10257 / 0	-124.4	-124.4	0.28 (1)	3.31	O-D	-843 / 0	0.21 (1)	
F-G	-10257 / 0	-124.4	-124.4	0.28 (1)	3.31	D-M	-19 / 0	0.01 (1)	
G-H	-7637 / 0	-124.4	-124.4	0.21 (1)	3.84	M-E	-834 / 0	0.20 (1)	
H-I	-5210 / 0	-124.4	-124.4	0.16 (1)	4.54	M-G	0 / 3596	0.89 (1)	
R-A	-4077 / 0	0.0	0.0	0.22 (1)	5.96	L-H	G-2910 / 0	0.71 (1)	
J-I	-4077 / 0	0.0	0.0	0.22 (1)	5.96	L-G	0 / 4561	0.81 (1)	
						K-H	-735 / 0	0.18 (1)	
R-Q	0 / 0	-39.2	-39.2	0.04 (3)	10.00	A-Q	0 / 4420	0.78 (1)	
Q-P	0 / 4304	-39.2	-39.2	0.25 (1)	10.00	K-I	0 / 4419	0.78 (1)	
P-O	0 / 7634	-39.2	-39.2	0.46 (1)	10.00				
Q-N	0 / 7637	-55.4	-55.4	0.27 (1)	10.00				
M-L	0 / 10272	-55.4	-55.4	0.47 (1)	10.00				
N-M	0 / 7637	-39.2	-39.2	0.47 (1)	10.00				
L-K	0 / 4303	-39.2	-39.2	0.25 (1)	10.00				
K-J	0 / 0	-39.2	-39.2	0.04 (3)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
M	16-11-8	-1462	-1462	—	FRONT	VERT	TOTAL	—	C1
O	12-0-8	-1462	-1462	—	FRONT	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

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



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

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 = 8.0	PSF
BOT	CH.	LL = 10.5	PSF
		DL = 7.3	PSF
TOTAL LOAD		= 60.6	PSF

TOTAL LOAD = 60.6 PSF

SPACING = 24.0 IN. C/C

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

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018 , ABC 2019
- 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 (0.30")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/ 881 (0.51")

CSI: TC=0.47/1.00 (D-E:1) , BC=0.67/1.00 (M-O:1) ,
WB=0.90/1.00 (C-O:1) , SSI=0.39/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

	GRIP(DRY)		SHEAR		SECTION	
	(PSI)		(PLI)		(PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	650	371	1747	788	1987	1873
MT18HS	586	403	2455	1382	3163	3004

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

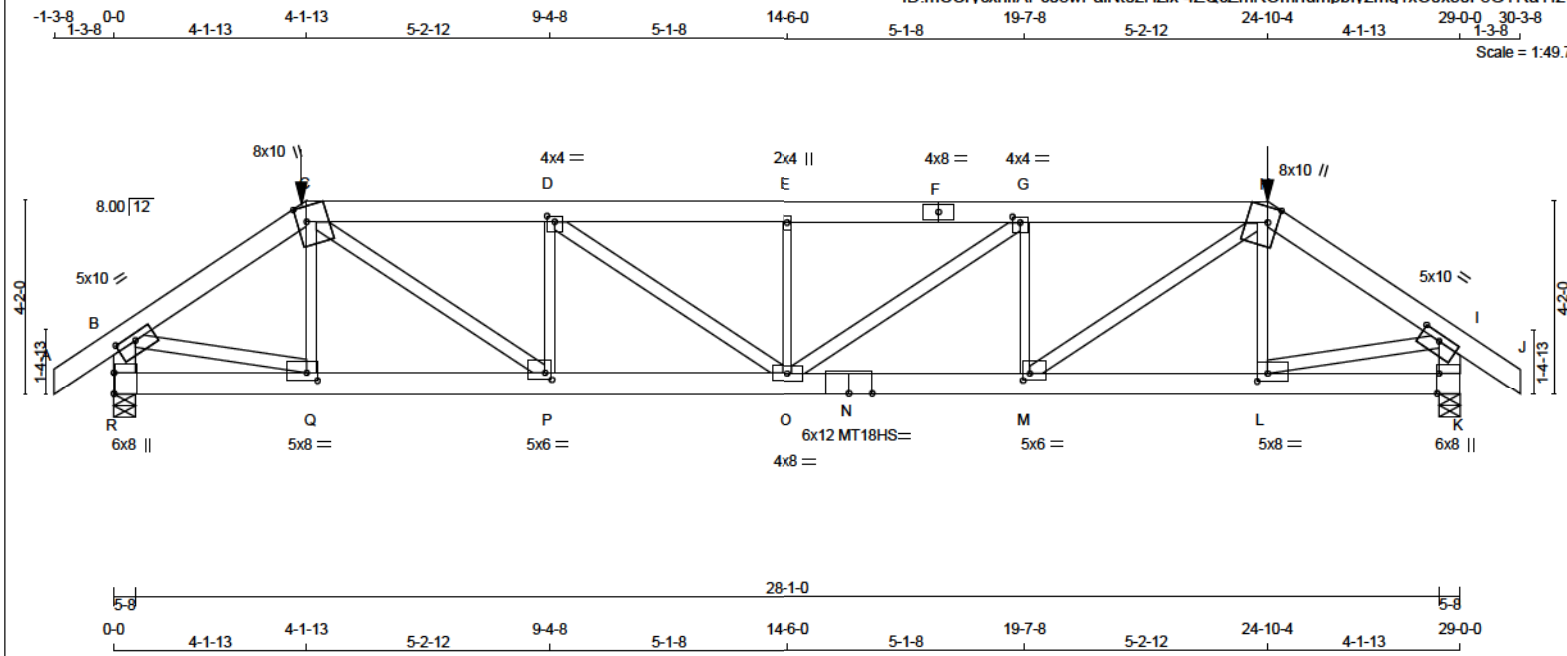
JSI GRIP= 0.89 (A) (INPUT = 0.90)
JSI METAL= 0.97 (N) (INPUT = 1.00)



**READ ALL NOTES ON THIS PAGE AND ON
ENGINEERING NOTE PAGE ENP-1. THIS
NOTE PAGE IS AN INTEGRAL PART OF
THIS DRAWING AS IT CONTAINS
SPECIFICATIONS AND CRITERIA USED IN
THE DESIGN OF THIS COMPONENT.**



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ID:mCCrycxnlfAPc08wPaINt0zHzlx-4ZQcZmR0mrfumpblv2mq1x00xe0F8GYRaY12v5y7



TOTAL WEIGHT = 165 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B TMVW-t	MT20	5.0	10.0	1.75	5.00
C TTWW+m	MT20	8.0	10.0	Edge	2.50
D TMVW-t	MT20	4.0	4.0	1.50	2.00
E TMVW-w	MT20	2.0	4.0		
F TS-t	MT20	4.0	8.0		
G TMVW-t	MT20	4.0	4.0	1.50	2.00
H TTWW+m	MT20	8.0	10.0	Edge	2.50
I TMVW-t	MT20	5.0	10.0	1.75	5.00
K BMV1+p	MT20	6.0	8.0	Edge	0.50
L BMVW-t	MT20	5.0	8.0	2.00	2.75
M BMVW-t	MT20	5.0	8.0	1.75	1.75
N BS-t	MT18HS	6.0	12.0		
O BMVW-t	MT20	4.0	8.0		
P BMVW-t	MT20	5.0	8.0	1.75	1.75
Q BMVW-t	MT20	5.0	8.0	2.00	2.75
R BMV1+p	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	4582	4582	0	5-8	5-8
R	4582	4582	0	5-8	5-8
K	4582	4582	0	5-8	5-8

UNFACTORED REACTIONS							
1ST LCASE	MAX/MIN COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
R	3387	1963	0	574	0	0	0
K	3387	1963	0	574	0	0	0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 1.88 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 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LC)	
FR-TO		FROM	TO	LENGTH	FR-TO		
A-B	0 / 49	-124.4	-124.4	0.10 (1)	10.00	Q-C	-557 / 87
B-C	-5491 / 0	-124.4	-124.4	0.38 (1)	3.41	C-P	0 / 4221
C-D	-7991 / 0	-234.6	-234.6	0.88 (1)	2.23	P-D	-2061 / 0
D-E	-8998 / 0	-234.6	-234.6	0.99 (1)	1.88	D-O	0 / 1242
E-F	-8998 / 0	-234.6	-234.6	0.99 (1)	1.88	O-E	-1108 / 0
F-G	-8998 / 0	-234.6	-234.6	0.99 (1)	1.88	O-G	0 / 1242
G-H	-7991 / 0	-234.6	-234.6	0.88 (1)	2.23	M-G	-2061 / 0
H-I	-5491 / 0	-124.4	-124.4	0.38 (1)	3.41	M-H	0 / 4221
I-J	0 / 49	-124.4	-124.4	0.10 (1)	10.00	L-H	-557 / 87
R-B	-4459 / 0	0.0	0.0	0.32 (1)	5.05	B-Q	0 / 4657
K-I	-4459 / 0	0.0	0.0	0.32 (1)	5.05	L-I	0 / 4657
R-Q	0 / 0	-74.0	-74.0	0.08 (3)	10.00		
Q-P	0 / 4541	-74.0	-74.0	0.30 (1)	10.00		
P-O	0 / 7992	-74.0	-74.0	0.52 (1)	10.00		
O-N	0 / 7992	-74.0	-74.0	0.52 (1)	10.00		
N-M	0 / 7992	-74.0	-74.0	0.52 (1)	10.00		
M-L	0 / 4541	-74.0	-74.0	0.30 (1)	10.00		
L-K	0 / 0	-74.0	-74.0	0.08 (3)	10.00		

FACTORED CONCENTRATED LOADS (LBS)							
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
C	4-1-13	-387	-387	—	FRONT	VERT	TOTAL
H	24-10-4	-387	-387	—	FRONT	VERT	TOTAL

CONNECTION REQUIREMENTS

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



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

DESIGN CRITERIA	
SPECIFIED LOADS:	
TOP CH. LL	= 34.8 PSF
DL	= 8.0 PSF
BOT CH. LL	= 10.5 PSF
DL	= 7.3 PSF
TOTAL LOAD	= 60.6 PSF

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 4-1-13
END SETBACK = 6-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL.

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, ABC 2019
- 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 (0.30")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/699 (0.50")

CSI: TC=0.99/1.00 (E-G-1), BC=0.52/1.00 (M-O-1), WB=0.82/1.00 (I-L-1), SI=0.48/1.00 (G-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

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

NAIL VALUES			
PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	650	371	1747
MT18HS	588	403	2455

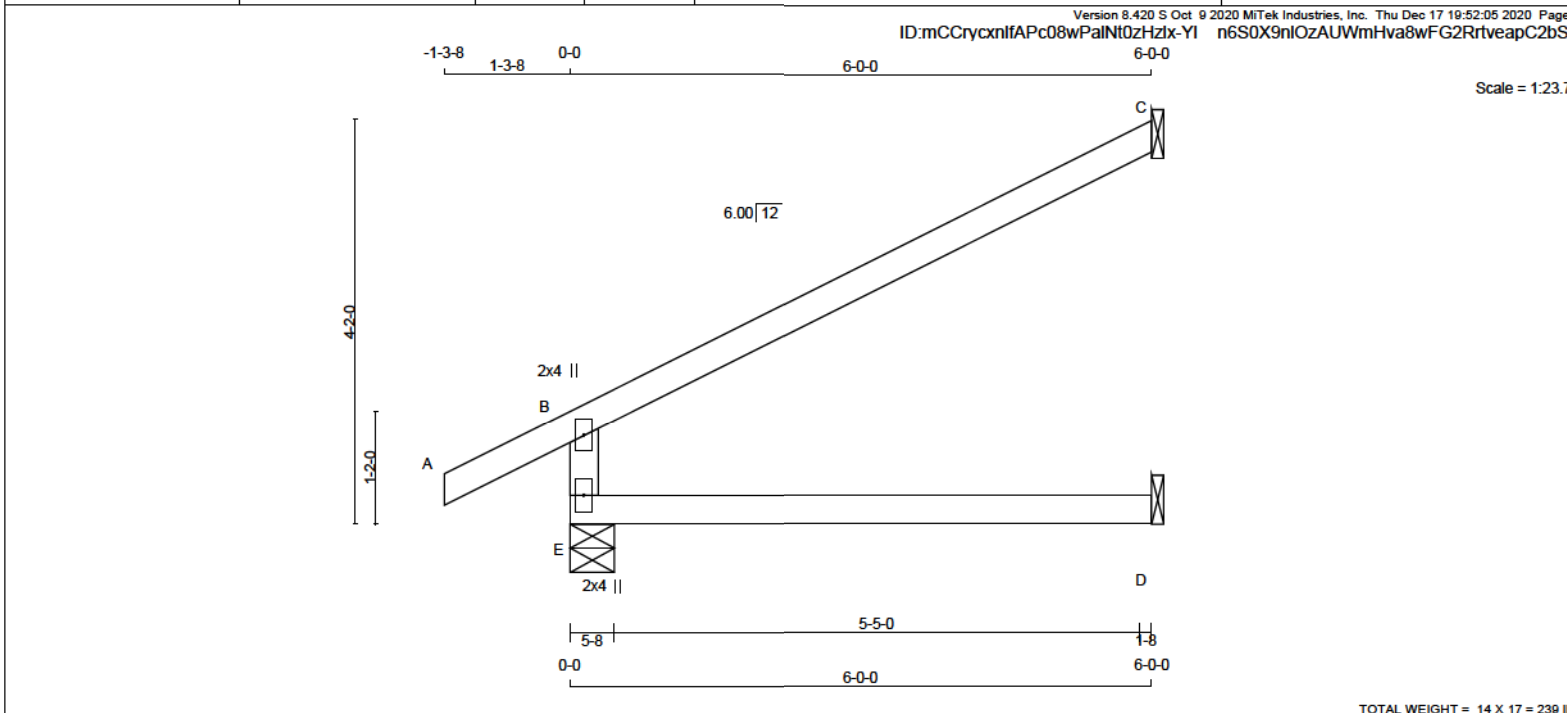
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (G) (INPUT = 0.90)
JSI METAL= 0.84 (N) (INPUT = 1.00)



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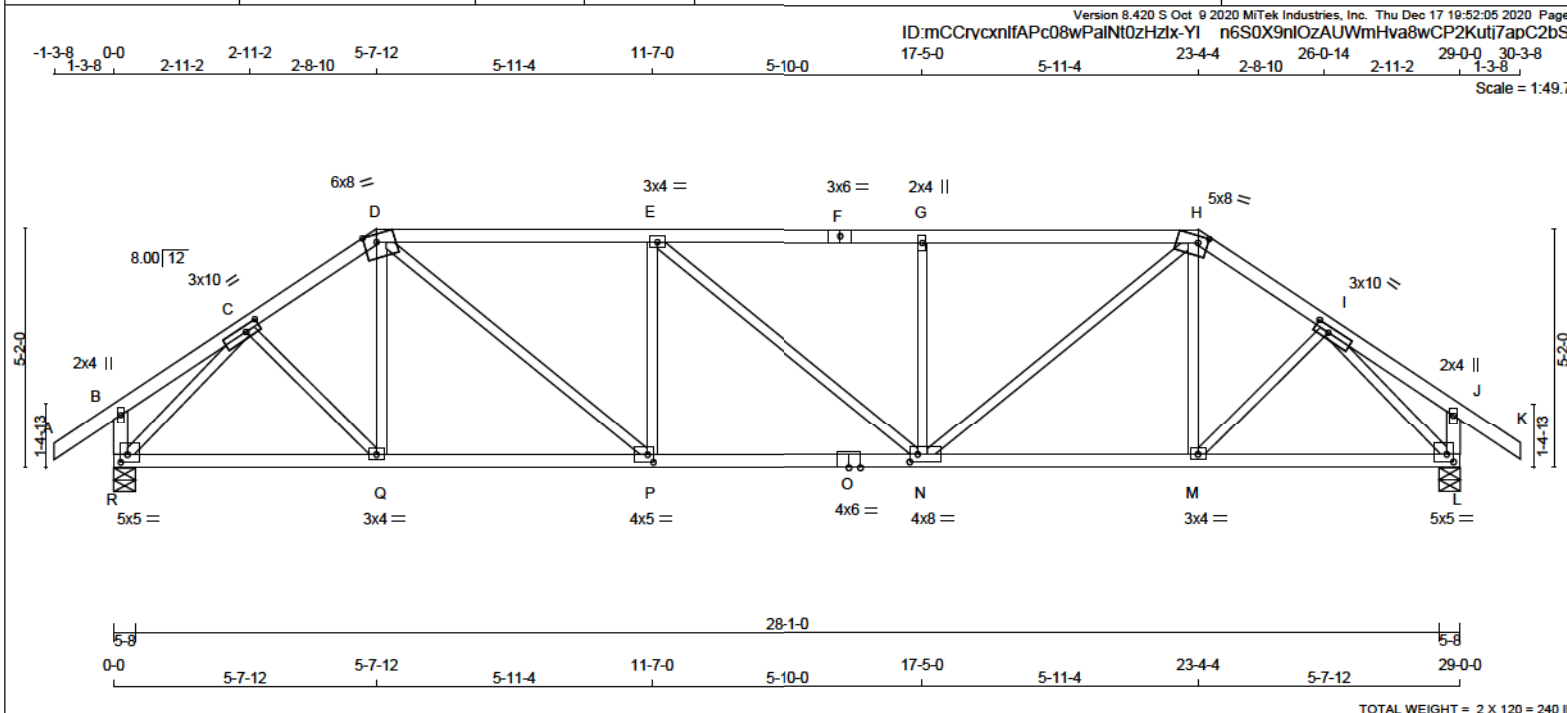


LUMBER										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA									
N. L. G. A. RULES										BEARINGS										SPECIFIED LOADS:									
CHORDS SIZE LUMBER										FACTORED GROSS REACTION MAXIMUM FACTORED INPUT REQD										TOP CH. LL = 34.8 PSF									
E - B 2x4 DRY No.2										GROSS REACTION GROSS REACTION BRG BRG										DL = 8.0 PSF									
DESCR. SPF										JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX										BOT CH. LL = 10.5 PSF									
A - C 2x4 DRY No.2										E 774 0 774 0 0 5-8 1-8										DL = 7.3 PSF									
SPF										C 280 0 280 0 0 1-8 1-8										TOTAL LOAD = 60.6 PSF									
SPF										D 97 0 123 0 0 1-8 1-8																			
DRY: SEASONED LUMBER.										SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D										SPACING = 24.0 IN. C/C									
PLATES (table is in inches)										UNFACTORED REACTIONS										THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015									
JT TYPE PLATES W LEN Y X										1ST LCASE MAX MIN COMPONENT REACTIONS										THIS DESIGN COMPLIES WITH:									
B TMV+p MT20 2.0 4.0										JT COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL										- PART 9 OF BCBC 2018, ABC 2019									
E BMV1+p MT20 2.0 4.0										E 563 355 / 0 74 / 0 0 / 0 0 / 0 133 / 0 0 / 0										- PART 9 OF OBC 2012 (2019 AMENDMENT)									
										C 193 157 / 0 0 / 0 0 / 0 0 / 0 36 / 0 0 / 0										- CSA 086-14									
										D 88 0 / 0 52 / 0 0 / 0 0 / 0 36 / 0 0 / 0										- TPIC 2014									
										BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E, C										DESIGN ASSUMPTIONS									
										BRACING										-OVERHANG NOT TO BE ALTERED OR CUT OFF.									
										TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.										(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)									
										MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.										EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD									
										ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.										ALLOWABLE DEFL.(LL)= L/360 (0.20")									
										LOADING										CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")									
										TOTAL LOAD CASES: (4)										ALLOWABLE DEFL.(TL)= L/360 (0.20")									
																				CALCULATED VERT. DEFL.(TL) = L/ 874 (0.08")									
																				CSI: TC=0.76/1.00 (B-C:1) , BC=0.24/1.00 (D-E:3) ,									
																				WB=0.00/1.00 (n/a:0) , SSI=0.33/1.00 (B-C:1)									
																				DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10									
																				SHEAR=1.10 TENS=1.10									
																				COMPANION LIVE LOAD FACTOR = 1.00									
																				TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .									
																				NAIL VALUES									
																				PLATE GRIP(DRY) SHEAR SECTION									
																				(PSI) (PLI) (PLI)									
																				MAX MIN MAX MIN MAX MIN									

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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

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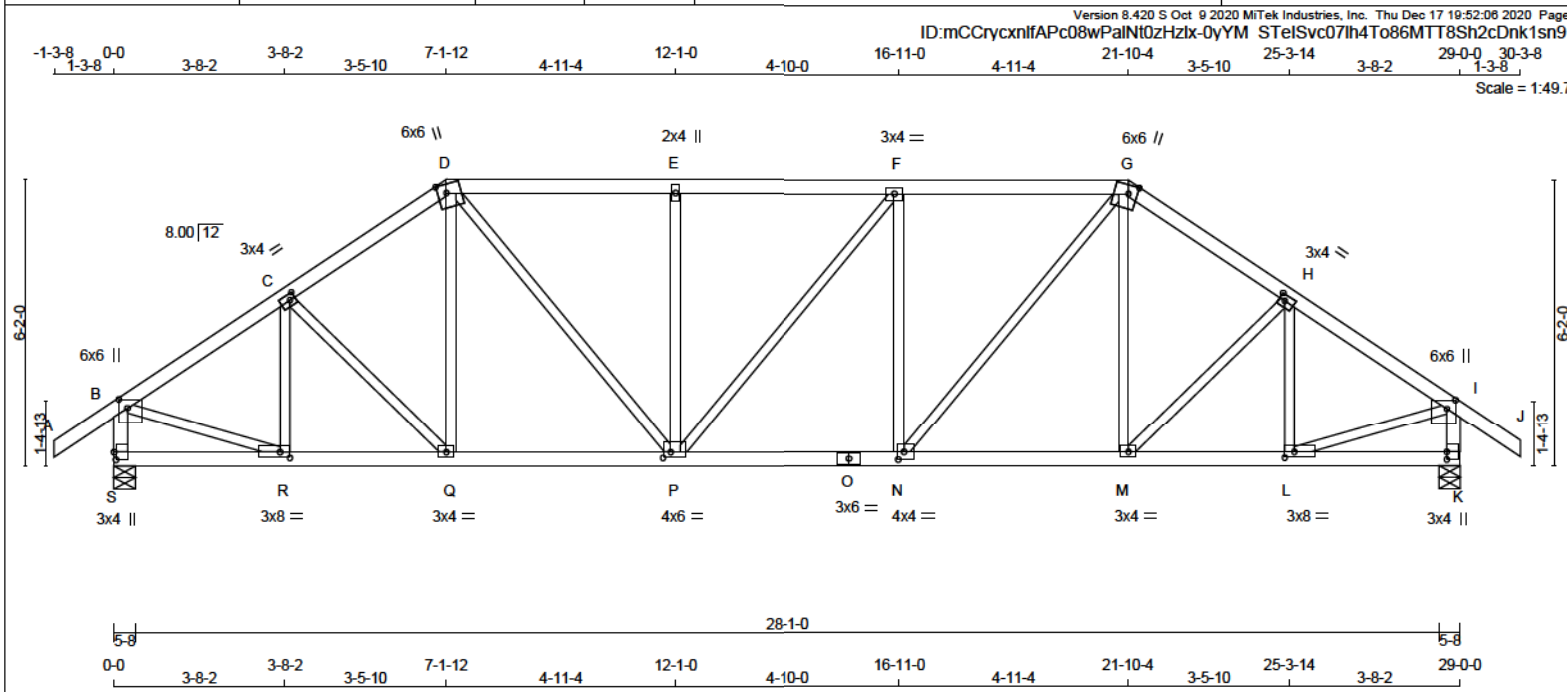
LUMBER										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA									
N. L. G. A. RULES										BEARINGS										SPECIFIED LOADS:									
CHORDS SIZE LUMBER DESCR.										FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT BRG REQRD BRG										TOP CH. LL = 34.8 PSF									
A - D 2x4 DRY No.2 SPF										JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX										DL = 8.0 PSF									
D - F 2x4 DRY No.2 SPF										R 2544 0 2544 0 0 0 5-8 3-1										BOT CH. LL = 10.5 PSF									
F - H 2x4 DRY No.2 SPF										L 2544 0 2544 0 0 0 5-8 3-1										DL = 7.3 PSF									
H - K 2x4 DRY No.2 SPF																				TOTAL LOAD = 60.6 PSF									
R - B 2x4 DRY No.2 SPF																													
L - J 2x4 DRY No.2 SPF																													
B - O 2x4 DRY No.2 SPF																													
O - L 2x4 DRY No.2 SPF																													
ALL WEBS 2x3 DRY No.2 SPF																				SPACING = 24.0 IN. C/C									
EXCEPT																													
DRY: SEASONED LUMBER.																				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, ABC 2019									
																				- PART 9 OF OBC 2012 (2019 AMENDMENT)									
																				- CSA 088-14									
																				- 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									
PLATES (table is in inches)																				ALLOWABLE DEFL.(LL)= L/360 (0.97")									
JT TYPE PLATES W LEN Y X																				CALCULATED VERT. DEFL.(LL) = L/999 (0.17")									
B TMV+p MT20 2.0 4.0																				ALLOWABLE DEFL.(TL)= L/360 (0.97")									
C TMWW+1 MT20 3.0 10.0 1.50 3.75																				CALCULATED VERT. DEFL.(TL) = L/999 (0.29")									
D TTWW-m MT20 6.0 8.0 2.00 3.25																				CSI: TC=0.95/1.00 (D-E-1), BC=0.68/1.00 (N-P-1), WB=0.80/1.00 (I-L-1), SSI=0.34/1.00 (D-E-1)									
E TMWW+1 MT20 3.0 4.0																				DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10									
F TS-1 MT20 3.0 6.0																				COMPANION LIVE LOAD FACTOR = 1.00									
G TMW+w MT20 2.0 4.0																				TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .									
H TTWW-m MT20 5.0 8.0 1.75 2.50																				NAIL VALUES									
I TMWW+1 MT20 3.0 10.0 1.50 3.75																				PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)									
J TMV+p MT20 2.0 4.0																				MAX MIN MAX MIN MAX MIN									
L BMVW1-t MT20 5.0 5.0 2.00 1.75																													
M BMWV-t MT20 3.0 4.0																													
N BMWVWV-t MT20 4.0 8.0 2.00 2.00																													
O BS-1 MT20 4.0 6.0																													
P BMWV-t MT20 4.0 5.0 2.00 1.50																													
Q BMWV-t MT20 3.0 4.0																													
R BMVW1-t MT20 5.0 5.0 2.00 1.75																													

Town of East Gwillimbury
Building Standards Branch BCIN #16487

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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

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LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - G	2x4	DRY No.2	SPF
G - J	2x4	DRY No.2	SPF
S - B	2x4	DRY No.2	SPF
K - I	2x4	DRY No.2	SPF
S - O	2x4	DRY No.2	SPF
O - K	2x4	DRY No.2	SPF
ALL WEBS	2x3	DRY No.2	SPF

EXCEPT
DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	6.0	4.0	2.25	2.25
C	TMVW-t	MT20	3.0	4.0	1.50	1.50
D	TTWW+m	MT20	6.0	6.0	2.25	2.25
E	TMW+w	MT20	2.0	4.0		
F	TMW-t	MT20	3.0	4.0		
G	TTWW+m	MT20	6.0	6.0	2.25	2.25
H	TMW-t	MT20	3.0	4.0	1.50	1.50
I	TMVW+p	MT20	6.0	6.0	2.25	2.25
K	BMV1+p	MT20	3.0	4.0	2.00	
L	BMW-t	MT20	3.0	8.0	1.50	2.50
M	BMW-t	MT20	3.0	4.0		
N	BMW-t	MT20	4.0	4.0	2.00	1.50
O	BS-t	MT20	3.0	6.0		
P	BMW-t	MT20	4.0	6.0	1.50	2.00
Q	BMW-t	MT20	3.0	4.0		
R	BMW-t	MT20	3.0	8.0	1.50	2.50
S	BMV1+p	MT20	3.0	4.0	2.00	0.50

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT VERT	2544	0	5-8	4-12
S	2544	0	5-8	4-12
K	2544	0	5-8	4-12

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT COMBINED	1105	0	SNOW LIVE PERM. LIVE WIND DEAD SOIL
S	1875	1105	0
K	1875	1105	0

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

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)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	UNBRACED LENGTH
FR-TO				FR-TO			
A-B	0 / 47	-124.4	-124.4 0.17 (1)	10.00	R-C	-514 / 0	0.12 (1)
B-C	-2633 / 0	-124.4	-124.4 0.35 (1)	3.94	C-Q	-31 / 2	0.01 (1)
C-D	-2686 / 0	-124.4	-124.4 0.34 (1)	3.92	Q-D	0 / 233	0.05 (2)
D-E	-2605 / 0	-124.4	-124.4 0.55 (1)	3.53	D-P	0 / 1104	0.25 (1)
E-F	-2605 / 0	-124.4	-124.4 0.56 (1)	3.52	P-E	-854 / 0	0.39 (1)
F-G	-2608 / 0	-124.4	-124.4 0.56 (1)	3.52	P-F	-4 / 0	0.00 (1)
G-H	-2685 / 0	-124.4	-124.4 0.34 (1)	3.92	N-F	-855 / 0	0.39 (1)
H-I	-2634 / 0	-124.4	-124.4 0.35 (1)	3.94	N-G	0 / 1108	0.25 (1)
I-J	0 / 47	-124.4	-124.4 0.17 (1)	10.00	M-G	0 / 231	0.05 (3)
S-B	-2478 / 0	0.0	0.0 0.26 (1)	5.45	M-H	-32 / 2	0.01 (1)
K-I	-2478 / 0	0.0	0.0 0.26 (1)	5.44	L-H	-513 / 0	0.12 (1)
S-R	0 / 0	-39.2	-39.2 0.09 (3)	10.00	B-R	0 / 2306	0.52 (1)
R-Q	0 / 2213	-39.2	-39.2 0.44 (1)	10.00	L-I	0 / 2306	0.52 (1)
Q-P	0 / 2194	-39.2	-39.2 0.44 (1)	10.00			
P-O	0 / 2908	-39.2	-39.2 0.56 (1)	10.00			
O-N	0 / 2908	-39.2	-39.2 0.56 (1)	10.00			
N-M	0 / 2194	-39.2	-39.2 0.45 (1)	10.00			
M-L	0 / 2213	-39.2	-39.2 0.44 (1)	10.00			
L-K	0 / 0	-39.2	-39.2 0.09 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 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, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

ALLOWABLE DEFL.(LL)= L/360 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")

CSI: TC=0.56/1.00 (F-G-1), BC=0.56/1.00 (N-P-1),
WB=0.52/1.00 (I-L-1), SSI=0.28/1.00 (F-G-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (K) (INPUT = 0.90)
JSI METAL = 0.85 (O) (INPUT = 1.00)



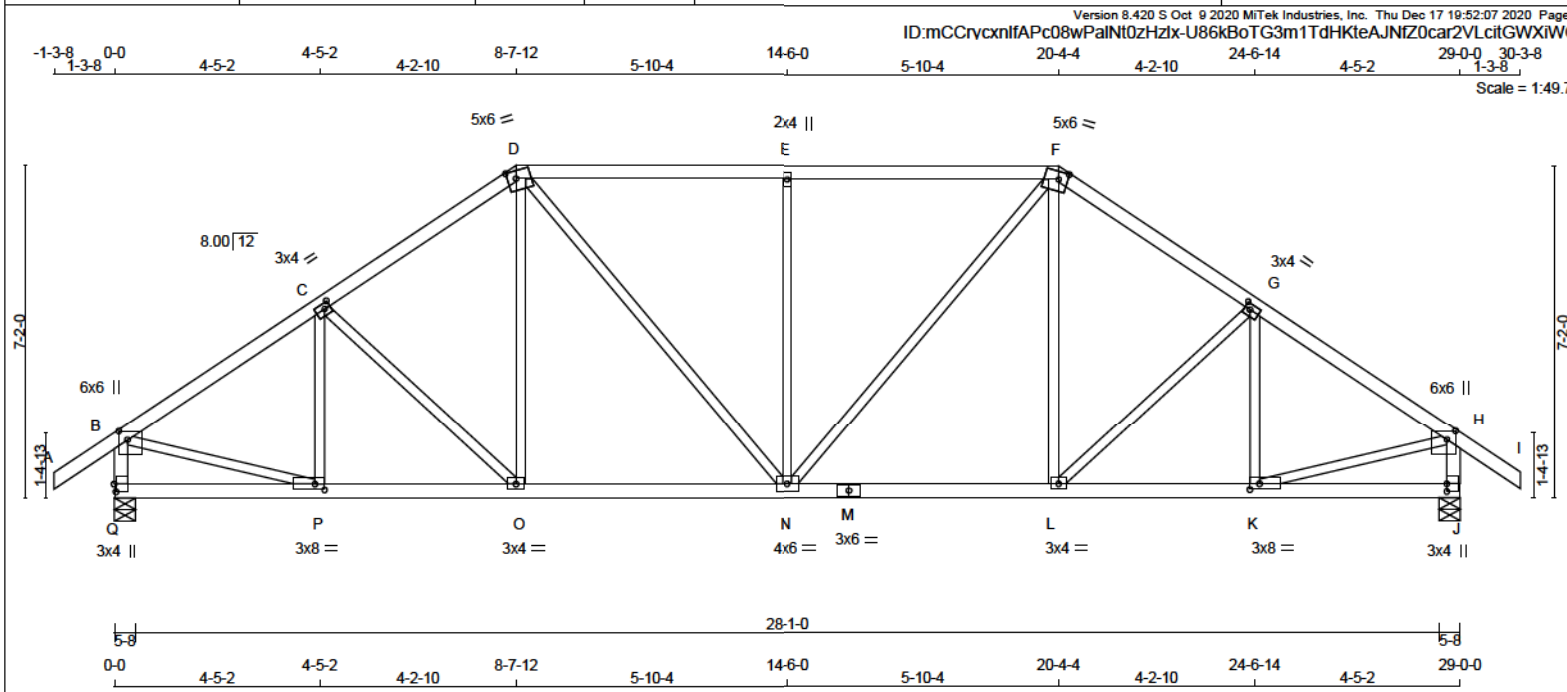
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			





LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	6.0	4.0	2.25	2.25
C	TMVW-t	MT20	3.0	4.0	1.50	1.50
D	TTWW-m	MT20	5.0	6.0	2.00	2.25
E	TMW+w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	6.0	2.00	2.25
G	TMVW-t	MT20	3.0	4.0	1.50	1.50
H	TMVW+p	MT20	6.0	6.0	2.25	2.25
J	BMV1+p	MT20	3.0	4.0	2.00	
K	BMVW-t	MT20	3.0	8.0	1.50	2.50
L	BMVW-t	MT20	3.0	4.0		
M	BS-t	MT20	3.0	6.0		
N	BMVW-t	MT20	4.0	6.0		
O	BMVW-t	MT20	3.0	4.0		
P	BMVW-t	MT20	3.0	8.0	1.50	2.50
Q	BMV1+p	MT20	3.0	4.0	2.00	0.50



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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	2544	0	5-8	4-12
Q VERT	2544	0	5-8	4-12

UNFACTORED REACTIONS

1ST CASE	MAX	MIN	COMPONENT REACTIONS
JT COMBINED	1105	0	304 / 0
Q COMBINED	1105	0	304 / 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 = 3.55 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)	FACTORED LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED LC1 MAX (LC)	UNBRACED LENGTH (FT)
FR-TO				FR-TO			
A-B	0 / 47	-124.4	-124.4 0.17 (1)	10.00	P-C	-384 / 0	0.11 (1)
B-C	-2714 / 0	-124.4	-124.4 0.39 (1)	3.87	C-O	-243 / 0	0.15 (1)
C-D	-2573 / 0	-124.4	-124.4 0.37 (1)	3.97	O-D	0 / 388	0.09 (2)
D-E	-2592 / 0	-124.4	-124.4 0.65 (1)	3.55	D-N	0 / 738	0.17 (1)
E-F	-2592 / 0	-124.4	-124.4 0.65 (1)	3.55	N-E	-890 / 0	0.80 (1)
F-G	-2573 / 0	-124.4	-124.4 0.37 (1)	3.97	N-F	0 / 738	0.17 (1)
G-H	-2714 / 0	-124.4	-124.4 0.39 (1)	3.87	L-F	0 / 388	0.09 (2)
H-I	0 / 47	-124.4	-124.4 0.17 (1)	10.00	L-G	-243 / 0	0.15 (1)
Q-B	-2468 / 0	0.0	0.0 0.25 (1)	5.46	K-G	-384 / 0	0.11 (1)
J-H	-2468 / 0	0.0	0.0 0.25 (1)	5.46	B-P	0 / 2353	0.53 (1)
					K-H	0 / 2353	0.53 (1)
Q-P	0 / 0	-39.2	-39.2 0.13 (3)	10.00			
P-O	0 / 2286	-39.2	-39.2 0.48 (1)	10.00			
O-N	0 / 2114	-39.2	-39.2 0.48 (1)	10.00			
N-M	0 / 2114	-39.2	-39.2 0.48 (1)	10.00			
M-L	0 / 2114	-39.2	-39.2 0.48 (1)	10.00			
L-K	0 / 2286	-39.2	-39.2 0.48 (1)	10.00			
K-J	0 / 0	-39.2	-39.2 0.13 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 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, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-14
- 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 (0.11")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL)= L/999 (0.10")

CSI: TC=0.65/1.00 (D-E-1), BC=0.48/1.00 (O-P-1),
WB=0.80/1.00 (E-N-1), SSI=0.35/1.00 (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) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (Q) (INPUT = 0.90)
JSI METAL = 0.63 (M) (INPUT = 1.00)

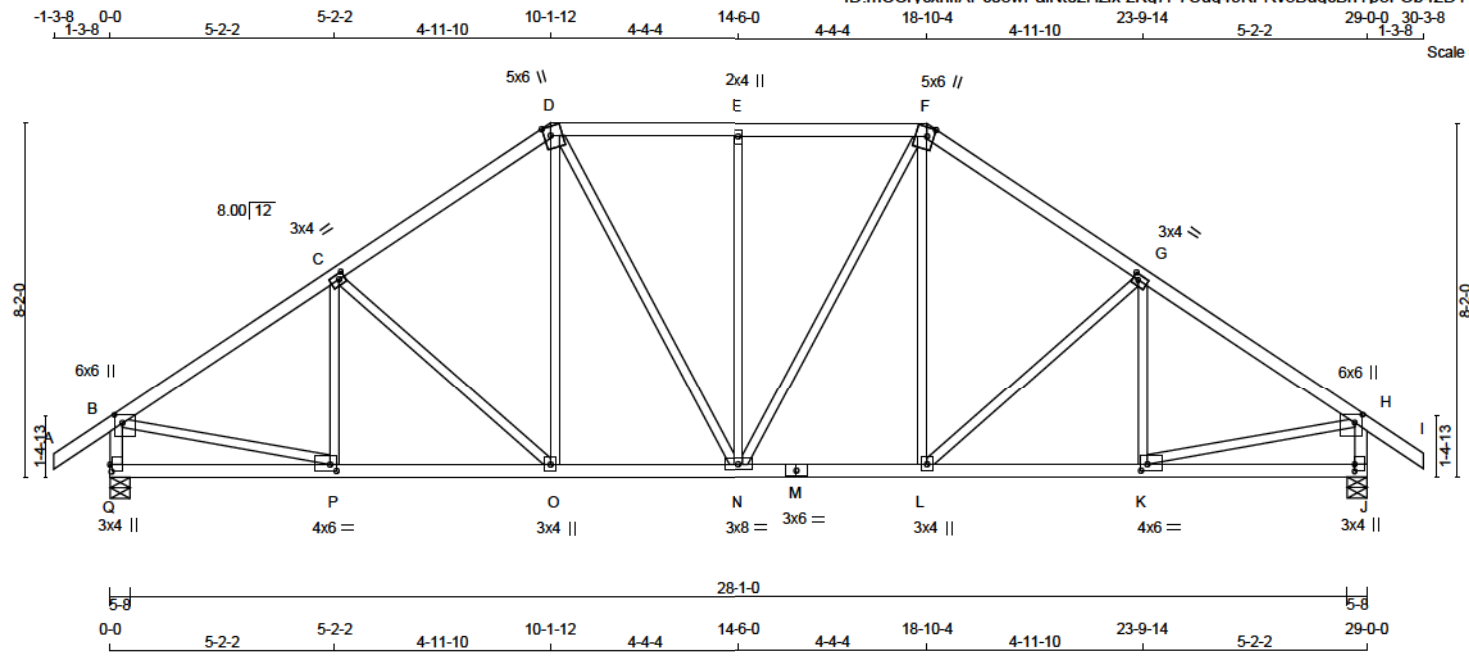


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			



Version 8.420 S Oct 9 2020 MiTek Industries, Inc. Thu Dec 17 19:52:08 2020 Page 1
ID:mCCrvcxnlfAPc08wPalNt0zHzlx-zKq7P7Uuq49KFRv3BuqcBnYp3F0b42D1VAGF2sy7



TOTAL WEIGHT = 2 X 135 = 270 lb

LUMBER
N. L. G. A. RULES

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

EXCEPT
DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	6.0	4.0	2.25	2.25
C	TMVW-t	MT20	3.0	4.0	1.50	1.50
D	TTWW+m	MT20	5.0	6.0	Edge	1.75
E	TMVW+w	MT20	2.0	4.0		
F	TTWW+m	MT20	5.0	6.0	Edge	1.75
G	TMVW-t	MT20	3.0	4.0	1.50	1.50
H	TMVW+p	MT20	6.0	6.0	2.25	2.25
J	BMV1+p	MT20	3.0	4.0	2.00	
K	BMVW-t	MT20	4.0	6.0	1.75	1.75
L	BMVW+t	MT20	3.0	4.0		
M	BS-t	MT20	3.0	6.0		
N	BMVW-t	MT20	3.0	8.0		
O	BMVW+t	MT20	3.0	4.0		
P	BMVW-t	MT20	4.0	6.0	1.75	1.75
Q	BMV1+p	MT20	3.0	4.0	2.00	0.50

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	DOWN	UPLIFT	IN-SX
Q 2544 0	2544 0	0 0	5-8 4-12
J 2544 0	2544 0	0 0	5-8 4-12

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT COMBINED	SNOW	LIVE	PERM. LIVE WIND DEAD SOIL
Q 1875	1105 / 0	304 / 0	0 / 0 0 / 0 486 / 0 0 / 0
J 1875	1105 / 0	305 / 0	0 / 0 0 / 0 486 / 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 = 3.67 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM	TO	LENGTH	FR-TO		
A-B	0 / 47	-124.4	-124.4	0.17 (1)	10.00	P-C	-264 / 83 0.09 (1)
B-C	-2760 / 0	-124.4	-124.4	0.54 (1)	3.67	C-O	-449 / 0 0.39 (1)
C-D	-2444 / 0	-124.4	-124.4	0.50 (1)	3.91	O-D	0 / 483 0.11 (1)
D-E	-2225 / 0	-124.4	-124.4	0.35 (1)	4.24	D-N	0 / 462 0.10 (1)
E-F	-2225 / 0	-124.4	-124.4	0.35 (1)	4.24	N-E	-852 / 0 0.94 (1)
F-G	-2444 / 0	-124.4	-124.4	0.50 (1)	3.91	N-F	0 / 482 0.10 (1)
G-H	-2760 / 0	-124.4	-124.4	0.54 (1)	3.67	L-F	0 / 483 0.11 (1)
H-I	0 / 47	-124.4	-124.4	0.17 (1)	10.00	L-G	-449 / 0 0.39 (1)
Q-B	-2459 / 0	0.0	0.0	0.25 (1)	5.46	K-G	-264 / 83 0.09 (1)
J-H	-2459 / 0	0.0	0.0	0.25 (1)	5.46	B-P	0 / 2380 0.54 (1)
						K-H	0 / 2380 0.54 (1)
Q-P	0 / 0	-39.2	-39.2	0.20 (3)	10.00		
P-O	0 / 2330	-39.2	-39.2	0.49 (1)	10.00		
O-N	0 / 2002	-39.2	-39.2	0.41 (1)	10.00		
N-M	0 / 2002	-39.2	-39.2	0.41 (1)	10.00		
M-L	0 / 2002	-39.2	-39.2	0.41 (1)	10.00		
L-K	0 / 2330	-39.2	-39.2	0.49 (1)	10.00		
K-J	0 / 0	-39.2	-39.2	0.20 (3)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 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, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-14
- 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 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.54/1.00 (B-C-1) , BC=0.49/1.00 (O-P-1) ,
WB=0.84/1.00 (E-N-1) , SSI=0.26/1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (B) (INPUT = 0.90)
JSI METAL = 0.62 (M) (INPUT = 1.00)

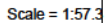


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



TOTAL WEIGHT = 2 X 132 = 264 lb

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

BEARINGS

UNFACTORED REACTIONS

1ST LCASE MAX/MIN COMPONENT REACTIONS

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.41 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP	CH.	LL = 34.8	PSF
		DL = 8.0	PSF
BOT	CH.	LL = 10.5	PSF
		DL = 7.3	PSF
TOTAL LOAD		= 60.6	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 , ABC 2019
- 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)= $L/360$ (0.87")
 CALCULATED VERT. DEFL.(LL)= $L/999$ (0.10")
 ALLOWABLE DEFL.(TL)= $L/360$ (0.87")
 CALCULATED VERT. DEFL.(TL)= $L/999$ (0.17")

CSI: TC=0.72/1.00 (B-C:1) , BC=0.54/1.00 (M-N:2) ,
WB=0.76/1.00 (C-M:1) , SSI=0.29/1.00 (E-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

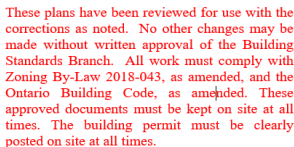
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE
FOR QUALITY CONTROL IN THE TRUSS
MANUFACTURING PLANT .

NAIL VALUES	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

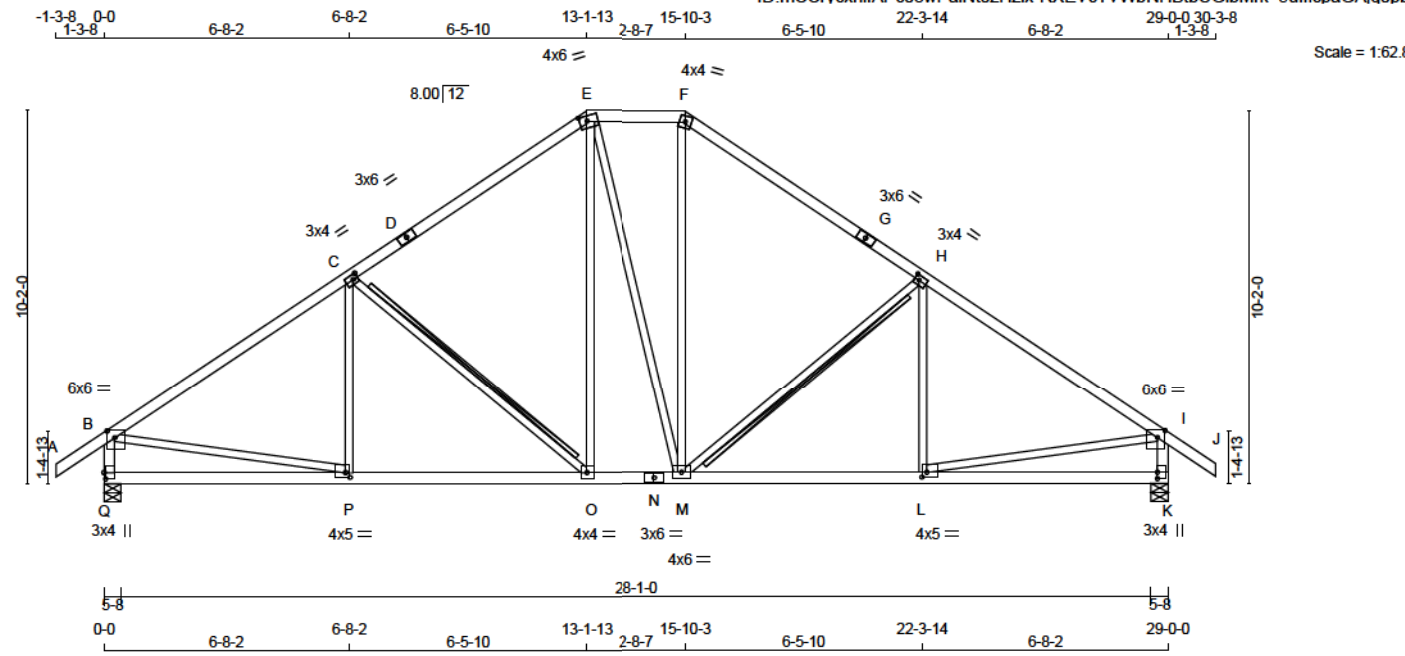
JSI GRIP= 0.89 (K) (INPUT = 0.90)
JSI METAL= 0.67 (N) (INPUT = 1.00)



Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			



**READ ALL NOTES ON THIS PAGE AND ON
ENGINEERING NOTE PAGE ENP-1. THIS
NOTE PAGE IS AN INTEGRAL PART OF
THIS DRAWING AS IT CONTAINS
SPECIFICATIONS AND CRITERIA USED IN
THE DESIGN OF THIS COMPONENT.**



TOTAL WEIGHT = 2 X 134 = 269 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 - G	2x4	DRY	No.2	SPF
G - J	2x4	DRY	No.2	SPF
Q - B	2x4	DRY	No.2	SPF
K - I	2x4	DRY	No.2	SPF
Q - N	2x4	DRY	No.2	SPF
N - K	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER				

PLATES (table is in inches)									
JT	TYPE	PLATES	W	LEN	Y	X			
B	TMVW-p	MT20	6.0	6.0	2.25	2.50			
C	TMVW-t	MT20	3.0	4.0	1.50	1.50			
D	TS-t	MT20	3.0	6.0					
E	TTVW-m	MT20	4.0	6.0	1.75	2.50			
F	TTVW-m	MT20	4.0	4.0					
G	TS-t	MT20	3.0	6.0					
H	TMVW-t	MT20	3.0	4.0	1.50	1.50			
I	TMVW-p	MT20	6.0	6.0	2.25	2.50			
K	BMV1+p	MT20	3.0	4.0	2.00				
L	BMVW-t	MT20	4.0	5.0	1.50	1.50			
M	BMVW-t	MT20	4.0	6.0					
N	BS-t	MT20	3.0	6.0					
O	BMVW-t	MT20	4.0	4.0					
P	BMVW-t	MT20	4.0	5.0	1.50	1.50			
Q	BMV1+p	MT20	3.0	4.0	2.00	0.50			

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

BEARINGS							
FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
Q	2544	0	2544	0	0	5-8	4-12
K	2544	0	2544	0	0	5-8	4-12

UNFACTORED REACTIONS							
1ST LCASE MAX/MIN COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	1875	1105 / 0	305 / 0	0 / 0	0 / 0	486 / 0	0 / 0
K	1875	1105 / 0	305 / 0	0 / 0	0 / 0	486 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.98 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-O, H-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)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO				FR-TO			
A-B	0 / 47	-124.4 -124.4 0.17 (1)	10.00	P-C	-79 / 225	0.08 (3)	
B-C	-2776 / 0	-124.4 -124.4 0.95 (1)	2.98	C-O	-816 / 0	0.46 (1)	
C-D	-2138 / 0	-124.4 -124.4 0.83 (1)	3.53	O-E	0 / 679	0.15 (1)	
D-E	-2138 / 0	-124.4 -124.4 0.83 (1)	3.53	E-M	0 / 9	0.00 (1)	
E-F	-1740 / 0	-124.4 -124.4 0.15 (1)	4.93	M-F	0 / 690	0.16 (1)	
F-G	-2141 / 0	-124.4 -124.4 0.83 (1)	3.53	M-H	-812 / 0	0.46 (1)	
G-H	-2141 / 0	-124.4 -124.4 0.83 (1)	3.53	H-I	-84 / 222	0.05 (3)	
H-I	-2775 / 0	-124.4 -124.4 0.95 (1)	2.98	B-P	0 / 2386	0.54 (1)	
I-J	0 / 47	-124.4 -124.4 0.17 (1)	10.00	L-I	0 / 2385	0.54 (1)	
Q-B	-2438 / 0	0.0 0.0 0.25 (1)	5.48				
K-I	-2438 / 0	0.0 0.0 0.25 (1)	5.48				
Q-P	0 / 0	-39.2 -39.2 0.36 (3)	10.00				
P-O	0 / 2355	-39.2 -39.2 0.83 (2)	10.00				
O-N	0 / 1738	-39.2 -39.2 0.41 (1)	10.00				
N-M	0 / 1738	-39.2 -39.2 0.41 (1)	10.00				
M-L	0 / 2354	-39.2 -39.2 0.83 (2)	10.00				
L-K	0 / 0	-39.2 -39.2 0.35 (3)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 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, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-14
- TPIC 2014

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

ALLOWABLE DEFL.(LL)= L/360 (0.97")
CALCULATED VERT. DEFL.(LL)= L/999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL)= L/999 (0.21")

CSI: TC=0.95/1.00 (B-C-1) , BC=0.63/1.00 (O-P-2) , WB=0.54/1.00 (B-P-1) , SSI=0.33/1.00 (B-C-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (Q) (INPUT = 0.90)
JSI METAL = 0.67 (P) (INPUT = 1.00)

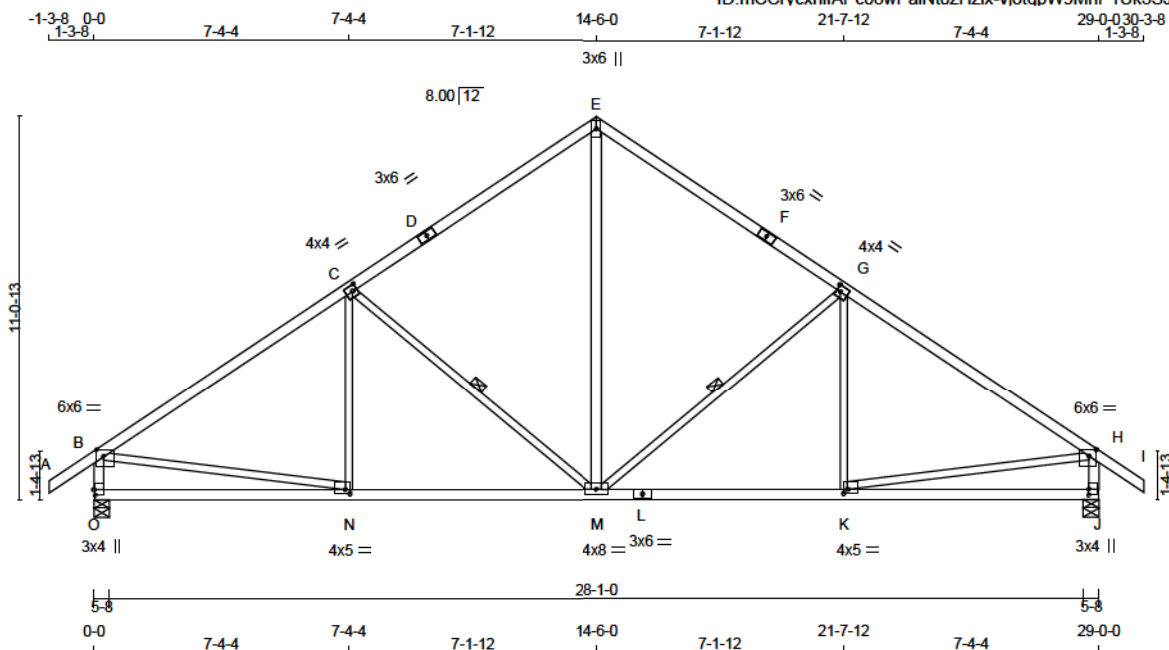


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 6 X 126 = 757 LB

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	6.0	6.0	2.25	2.50
C	TMVW-t	MT20	4.0	4.0	2.00	1.50
D	TS-t	MT20	3.0	6.0		
E	TTW+p	MT20	3.0	6.0		
F	TS-t	MT20	3.0	6.0		
G	TMVW-t	MT20	4.0	4.0	2.00	1.50
H	TMVW-p	MT20	6.0	6.0	2.25	2.50
J	BMV1+p	MT20	3.0	4.0	2.00	
K	BMVW-t	MT20	4.0	5.0	1.50	1.50
L	BS-t	MT20	3.0	6.0		
M	BMVW-t	MT20	4.0	8.0		
N	BMVW-t	MT20	4.0	5.0	1.50	1.50
O	BMV1+p	MT20	3.0	4.0	2.00	0.50

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
O	2544	0	2544	0
J	2544	0	2544	0

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
O	1875	1105 / 0	305 / 0	0 / 0	0 / 0	486 / 0	0 / 0		
J	1875	1105 / 0	305 / 0	0 / 0	0 / 0	486 / 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 = 4.25 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.

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF G-M, C-M. DBS = 20-0-0. CBF = 119 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)	MEMB.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)
FR-TO		FROM	TO	LENGTH	FR-TO		
A-B	0 / 47	-124.4	-124.4	0.11 (1)	10.00	M-E	0 / 1486
B-C	-2757 / 0	-124.4	-124.4	0.89 (1)	4.25	M-G	-951 / 0
C-D	-2002 / 0	-124.4	-124.4	0.82 (1)	4.88	K-G	-24 / 265
D-E	-2002 / 0	-124.4	-124.4	0.82 (1)	4.88	C-M	-951 / 0
E-F	-2002 / 0	-124.4	-124.4	0.82 (1)	4.88	N-C	-24 / 265
F-G	-2002 / 0	-124.4	-124.4	0.82 (1)	4.88	B-N	0 / 2369
G-H	-2757 / 0	-124.4	-124.4	0.89 (1)	4.25	K-H	0 / 2369
H-I	0 / 47	-124.4	-124.4	0.11 (1)	10.00		
O-B	-2427 / 0	0.0	0.0	0.25 (1)	5.49		
J-H	-2427 / 0	0.0	0.0	0.25 (1)	5.49		
O-N	0 / 0	-39.2	-39.2	0.41 (3)	10.00		
N-M	0 / 2344	-39.2	-39.2	0.88 (2)	10.00		
M-L	0 / 2344	-39.2	-39.2	0.88 (2)	10.00		
L-K	0 / 2344	-39.2	-39.2	0.88 (2)	10.00		
K-J	0 / 0	-39.2	-39.2	0.41 (3)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 34.8	PSF
	DL = 8.0	PSF
BOT CH.	LL = 10.5	PSF
	DL = 7.3	PSF
TOTAL LOAD	= 60.6	PSF

SPACING = 24.0 IN. C/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, ABC 2019
- 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) = $L/999$ (0.13")
ALLOWABLE DEFL. (TL) = $L/360$ (0.97")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.22")

CSI: TC=0.69/1.00 (B-C-1), BC=0.68/1.00 (K-M-2), WB=0.58/1.00 (G-M-1), SSI=0.37/1.00 (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 850 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (O) (INPUT = 0.90)
JSI METAL = 0.87 (K) (INPUT = 1.00)



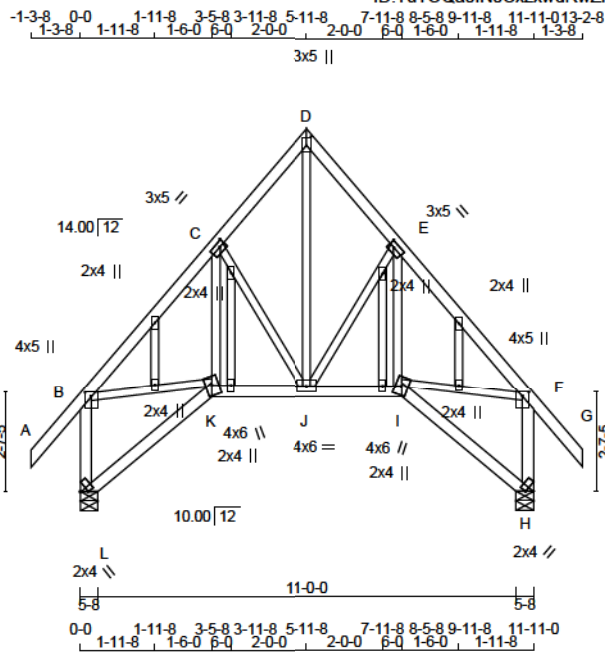
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

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Scale = 1:60.5

TOTAL WEIGHT = 2 X 79 = 158 lb

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - G	2x4	DRY	No.2	SPF
L - B	2x4	DRY	No.2	SPF
H - F	2x4	DRY	No.2	SPF
L - K	2x4	DRY	No.2	SPF
K - I	2x4	DRY	No.2	SPF
I - H	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				
GABLE STUDS SPACED AT 2'-0" OC.				

PLATES (table is in inches)						
JT TYPE	PLATES	W	LEN	Y	X	
B	TMVW+p	MT20	4.0	5.0	1.25	2.00
C	TMWW-t	MT20	3.0	5.0	1.50	1.75
D	TTW+p	MT20	3.0	5.0	2.75	1.50
E	TMWW-t	MT20	3.0	5.0	1.50	1.75
F	TMVW+p	MT20	4.0	5.0	1.25	2.00
H	BMV1+H	MT20	2.0	4.0	Edge	2.00
I	BBWW+m	MT20	4.0	6.0		
J	BMWWW-t	MT20	4.0	6.0		
K	BBWW+m	MT20	4.0	6.0		
L	BMV1+H	MT20	2.0	4.0	Edge	2.00
M, N, O, P, Q, R, S, T						
M	NP+H	MT20	2.0	4.0		

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

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

BEARINGS						
	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG		
JT	VERT	HORZ	DOWN	UPLIFT	IN-SX	IN-SX
L	1150	0	1150	0	5-8 (5-7)	1-8
H	1150	0	1150	0	5-8 (5-7)	1-8

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS						
1ST LCASE	MAX	MIN	COMPONENT REACTIONS			
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
L	842	512 / 0	125 / 0	0 / 0	0 / 0	205 / 0
H	842	512 / 0	125 / 0	0 / 0	0 / 0	205 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.04 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)	FACTORED LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 88	-124.4	-124.4	0.18 (1)	J-D	0 / 837	0.19 (1)
B-C	-988 / 0	-124.4	-124.4	0.19 (1)	J-E	-429 / 0	0.15 (1)
C-D	-716 / 0	-124.4	-124.4	0.15 (1)	I-E	0 / 186	0.04 (2)
D-E	-716 / 0	-124.4	-124.4	0.15 (1)	C-J	-429 / 0	0.15 (1)
E-F	-988 / 0	-124.4	-124.4	0.19 (1)	K-C	0 / 186	0.04 (2)
F-G	0 / 88	-124.4	-124.4	0.18 (1)	B-K	0 / 669	0.15 (1)
L-B	-1082 / 0	0.0	0.0	0.17 (1)	I-F	0 / 669	0.15 (1)
H-F	-1082 / 0	0.0	0.0	0.17 (1)			
L-K	0 / 0	-39.2	-39.2	0.11 (3)			
K-J	0 / 663	-39.2	-39.2	0.14 (1)			
J-I	0 / 663	-39.2	-39.2	0.14 (1)			
I-H	0 / 0	-39.2	-39.2	0.11 (3)			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 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, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-14
- 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 (0.40")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.40")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.19/1.00 (E-F:1) , BC=0.14/1.00 (I-J:1) , WB=0.19/1.00 (D-J:1) , SSI=0.13/1.00 (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

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 MAX MIN
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 0.0 Deg.

JSI GRIP= 0.83 (L) (INPUT = 0.80)
JSI METAL= 0.81 (L) (INPUT = 1.00)

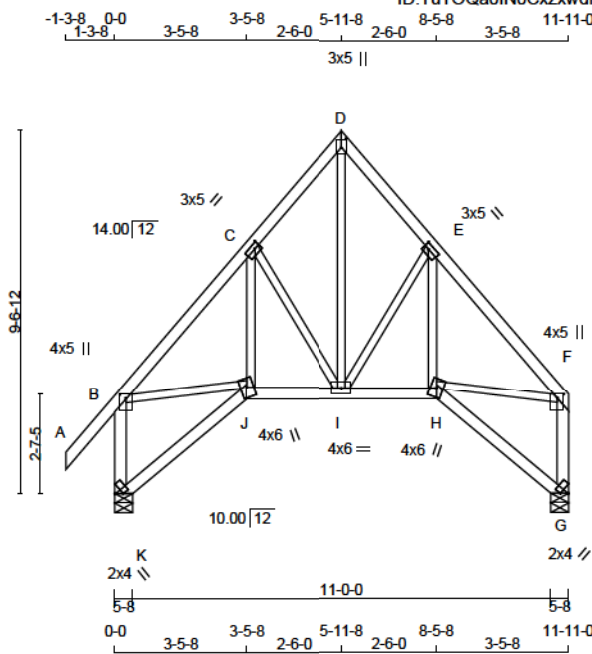


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



TOTAL WEIGHT = 2 X 69 = 138 lb

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	5.0	1.25	2.00
C	TMVW-t	MT20	3.0	5.0	1.50	1.75
D	TTW+p	MT20	3.0	5.0	2.75	1.50
E	TMVW-t	MT20	3.0	5.0	1.50	1.75
F	TMVW+p	MT20	4.0	5.0	1.25	2.00
G	BMV1+H	MT20	2.0	4.0	Edge	2.00
H	BBWW+m	MT20	4.0	6.0		
I	BBWWW-t	MT20	4.0	6.0		
J	BBWW+m	MT20	4.0	6.0		
K	BMV1+H	MT20	2.0	4.0	Edge	2.00

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
K	1150	0	1150	0
G	975	0	975	0

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
K	842	512 / 0	125 / 0	0 / 0	0 / 0	205 / 0	0 / 0		
G	722	415 / 0	125 / 0	0 / 0	0 / 0	182 / 0	0 / 0		

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.04 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 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 88	-124.4	-124.4 0.18 (1)	10.00	I-D	0 / 837	0.19 (1)
B-C	-908 / 0	-124.4	-124.4 0.19 (1)	8.04	I-E	-429 / 0	0.15 (1)
C-D	-716 / 0	-124.4	-124.4 0.15 (1)	8.25	H-E	0 / 186	0.04 (2)
D-E	-716 / 0	-124.4	-124.4 0.15 (1)	8.25	C-I	-429 / 0	0.15 (1)
E-F	-908 / 0	-124.4	-124.4 0.19 (1)	8.04	J-C	0 / 186	0.04 (2)
K-B	-1082 / 0	0.0	0.0 0.17 (1)	7.59	B-J	0 / 669	0.15 (1)
G-F	-907 / 0	0.0	0.0 0.14 (1)	7.81	H-F	0 / 669	0.15 (1)
K-J	0 / 0	-39.2	-39.2 0.11 (3)	10.00			
J-I	0 / 663	-39.2	-39.2 0.14 (1)	10.00			
I-H	0 / 663	-39.2	-39.2 0.14 (1)	10.00			
H-G	0 / 0	-39.2	-39.2 0.11 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 34.8	PSF
	DL = 8.0	PSF
BOT CH.	LL = 10.5	PSF
	DL = 7.3	PSF
TOTAL LOAD	= 60.6	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:

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- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-14
- 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 (0.40")
CALCULATED VERT. DEFL.(LL)= L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.40")
CALCULATED VERT. DEFL.(TL)= L/999 (0.04")

CSI: TC=0.19/1.00 (E-F:1), BC=0.14/1.00 (H-I:1),
WB=0.19/1.00 (D-I:1), SS=0.13/1.00 (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

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 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (G) (INPUT = 0.90)
JSI METAL= 0.81 (K) (INPUT = 1.00)



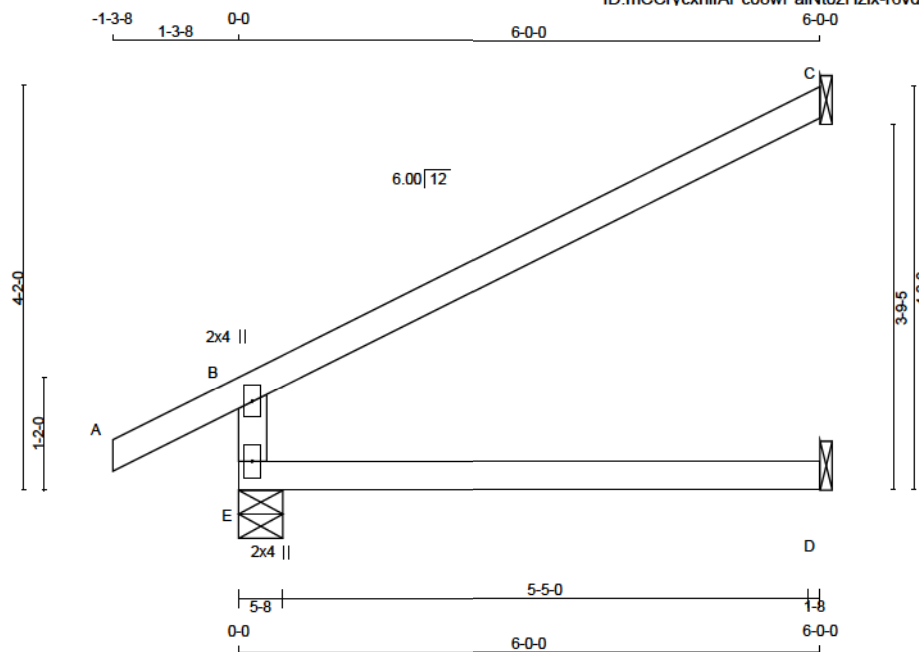
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = $2 \times 17 = 34$ lb

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

DRY: SEASONED LUMBER.

DRY; SEASONED LUMBER.

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

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

BEARINGS

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
E	774	0	774	0	0	5-8	1-8
C	280	0	280	0	0	1-8	1-8
D	97	0	123	0	0	1-8	1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C , D

UNFACTORED REACTIONS

1ST LCASE		MAX / MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	563	355 / 0	74 / 0	0 / 0	0 / 0	133 / 0	0 / 0
C	193	157 / 0	0 / 0	0 / 0	0 / 0	38 / 0	0 / 0
D	88	0 / 0	52 / 0	0 / 0	0 / 0	36 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRD. LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO	FR-TO			
E-B	-635 / 0	0.0	0.0	0.24 (3)		7.81	
A-B	0 / 38	-124.4	-124.4	0.16 (1)		10.00	
B-C	-42 / 0	-124.4	-124.4	0.76 (1)		6.25	
E-D	0 / 0	-39.2	-39.2	0.24 (3)		10.00	

DESIGN CRITERIA

SPECIFIED LOADS:

TOP	CH.	LL = 34.8	PSF
		DL = 8.0	PSF
BOT	CH.	LL = 10.5	PSF
		DL = 7.3	PSF
TOTAL LOAD		= 60.6	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 , ABC 2019
- 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 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 874 (0.08")

CSI: TC=0.76/1.00 (B-C:1) , BC=0.24/1.00 (D-E:3) ,
WB=0.00/1.00 (n/a:0) , SSI=0.33/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY) (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= 0.36 (B) (INPUT = 0.90)
JSI METAL= 0.26 (B) (INPUT = 1.00)



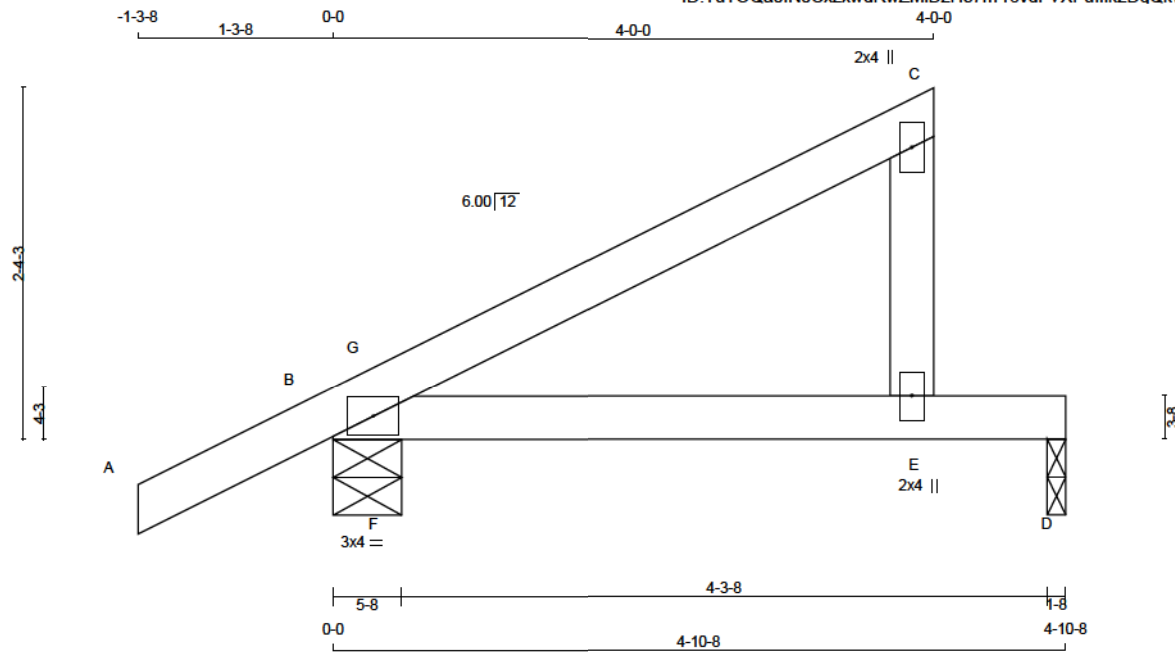
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-0
Sewage System			
Zoning			



**READ ALL NOTES ON THIS PAGE AND ON
ENGINEERING NOTE PAGE ENP-1. THIS
NOTE PAGE IS AN INTEGRAL PART OF
THIS DRAWING AS IT CONTAINS
SPECIFICATIONS AND CRITERIA USED IN
THE DESIGN OF THIS COMPONENT.**

Version 8.420 S Oct 9 2020 MiTek Industries, Inc. Thu Dec 17 19:52:12 2020 Page 1
ID:TuTOQa0IN0CxxwdRwZMDzHe7m-r6vdFVXPuIfk2DqQkvYMdiZbsom03NcQoETBdy7



TOTAL WEIGHT = 9 X 14 = 130 LB

LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER DESCR.
A - C 2x4 DRY No.2 SPF
E - C 2x4 DRY No.2 SPF
B - D 2x4 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	TMV+p	MT20	2.0	4.0		
E	BMV+p	MT20	2.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX
B	558	0	558	0	0	5-8	1-8	1-8
D	300	0	300	0	0	1-8	1-8	1-8

UNFACTORED REACTIONS

JT	1ST CASE		MAX/MIN COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
B	405	259 / 0	51 / 0	0 / 0	0 / 0	95 / 0	0 / 0
D	227	114 / 0	51 / 0	0 / 0	0 / 0	62 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 38	-124.4 -124.4	0.16 (1)	10.00	F-G	-107 / 159	0.00 (1)
B-G	-92 / 0	-124.4 -124.4	0.11 (3)	6.25			
G-C	0 / 9	-124.4 -124.4	0.31 (1)	10.00			
E-C	-238 / 0	0.0	0.03 (1)	7.81			
B-F	0 / 0	-39.2 -39.2	0.13 (1)	10.00			
F-E	0 / 0	-39.2 -39.2	0.35 (1)	10.00			
E-D	0 / 0	-39.2 -39.2	0.34 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 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, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-14
- 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/ 831 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 483 (0.12")

CSI: TC=0.31/1.00 (C-G-1) , BC=0.35/1.00 (E-F-1) ,
WB=0.00/1.00 (F-G-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)
MAX MIN MAX MIN MAX MIN
MT20 850 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.35 (B) (INPUT = 0.90)
JSI METAL= 0.10 (C) (INPUT = 1.00)



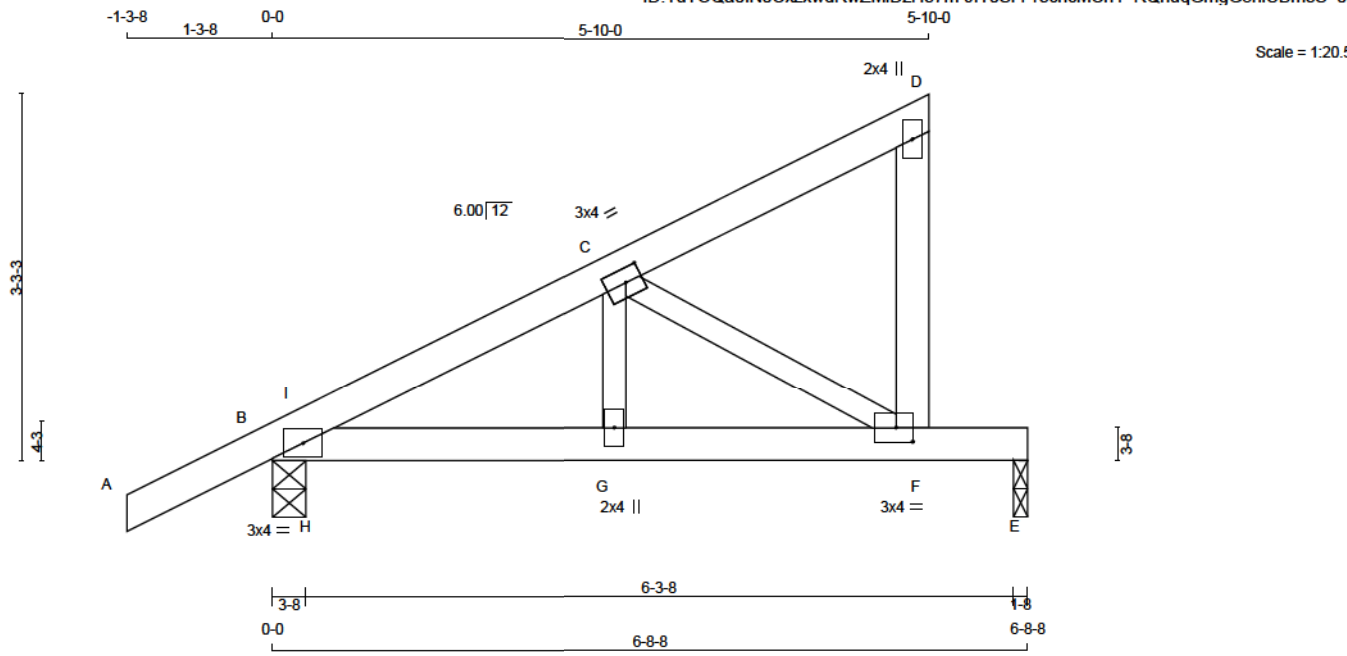
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			



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Version 8.420 S Oct 9 2020 MiTek Industries, Inc. Thu Dec 17 19:52:13 2020 Page 1
ID:TuTOQa0iN0CxxwdRwZMDzHe7m-JIT0SrY1ecncMCn1 RQnuqGmgG3hIUbmeS 0k3y7



TOTAL WEIGHT = 2 X 23 = 46 lb
[M/JF]

LUMBER				DESCR.
N. L. G. A. RULES	SIZE	LUMBER		
CHORDS				SPF
A - D	2x4	DRY	No.2	SPF
F - D	2x4	DRY	No.2	SPF
B - E	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	TM81-I	MT20	3.0	4.0	
C	TMWW-I	MT20	3.0	4.0	1.50 1.75
D	TMV+p	MT20	2.0	4.0	
F	BMVW-I	MT20	3.0	4.0	1.50 1.75
G	BMW+w	MT20	2.0	4.0	

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

BEARINGS					
JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG	
B	711	711	0	3-8	1-8
E	447	447	0	1-8	1-8

UNFACTORED REACTIONS					
JT	1ST LCASE	MAX	MIN	COMPONENT REACTIONS	
B	518	324 / 0	70 / 0	PERM. LIVE	0 / 0
E	337	177 / 0	70 / 0	WIND	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 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)	LC1 MAX (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
FR-TO		FROM	TO		FR-TO		
A-B	0 / 36	-124.4	-124.4	0.16 (1)	10.00	G-C	0 / 354
B-I	-794 / 0	-124.4	-124.4	0.03 (1)	8.25	C-F	-807 / 0
I-C	-777 / 0	-124.4	-124.4	0.10 (1)	8.25	H-I	-149 / 12
C-D	-14 / 0	-124.4	-124.4	0.10 (1)	8.25		
F-D	-142 / 0	0.0	0.0	0.02 (1)	7.81		
B-H	0 / 705	-39.2	-39.2	0.19 (1)	10.00		
H-G	0 / 705	-39.2	-39.2	0.28 (1)	10.00		
G-F	0 / 705	-39.2	-39.2	0.83 (1)	10.00		
F-E	0 / 0	-39.2	-39.2	0.51 (1)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 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, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-14
- 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 (0.22")
CALCULATED VERT. DEFL.(LL)= L/969 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.22")
CALCULATED VERT. DEFL.(TL)= L/878 (0.09")

CSI: TC=0.16/1.00 (A-B:1) , BC=0.83/1.00 (F-G:1) ,
WB=0.16/1.00 (C-F:1) , SSI=0.35/1.00 (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) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 850 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (F) (INPUT = 0.80)
JSI METAL = 0.26 (B) (INPUT = 1.00)

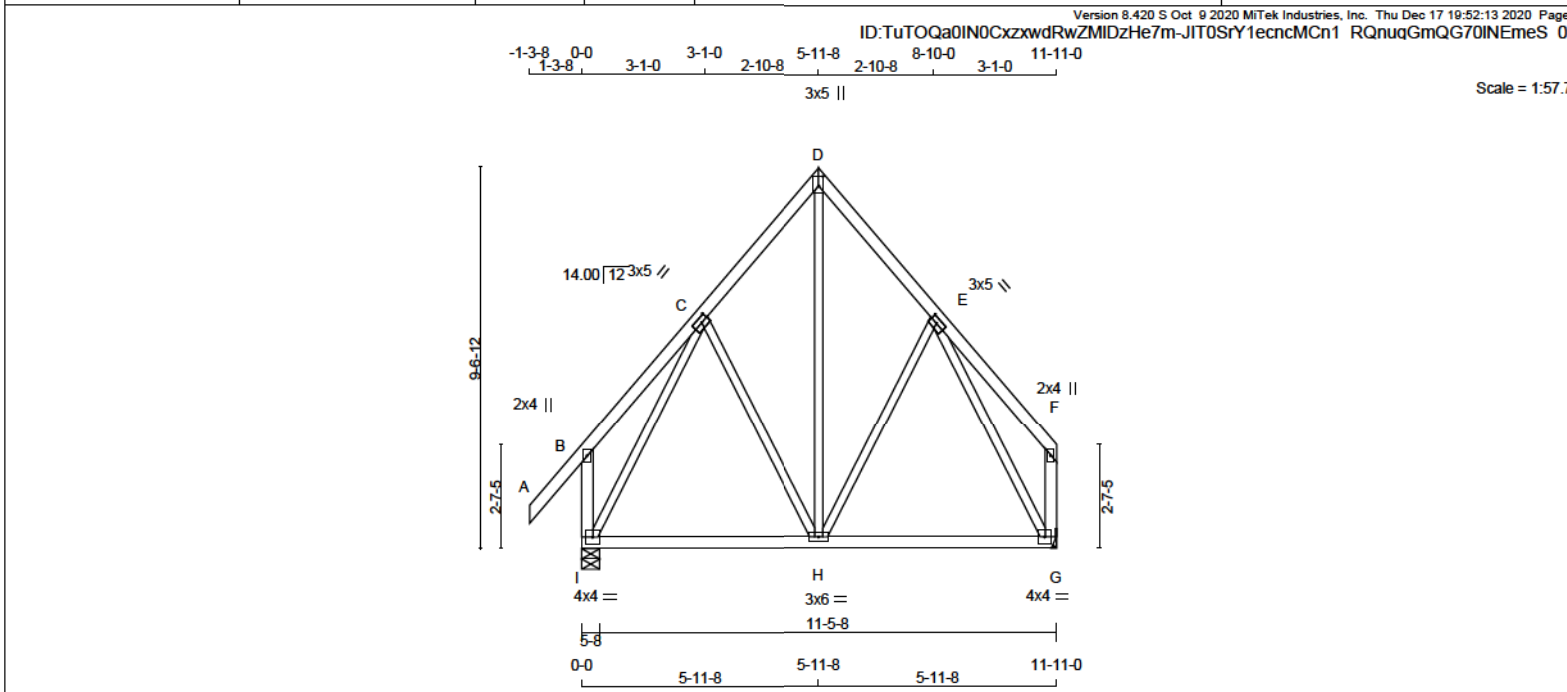


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

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LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
I - B	2x4	DRY	No.2
G - F	2x4	DRY	No.2
I - G	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
C	TMWW-I	MT20	3.0	5.0	1.50	2.25
D	TTW+p	MT20	3.0	5.0	2.75	1.50
E	TMWW-I	MT20	3.0	5.0	1.50	2.25
F	TMV+p	MT20	2.0	4.0		
G	BMVW1-I	MT20	4.0	4.0		
H	BMWW-I	MT20	3.0	6.0		
I	BMVW1-I	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	1150	0	5-8
I HORZ	975	0	1-8
G UPLIFT	0	0	MECHANICAL

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

UNFACTORED REACTIONS

1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
JT COMBINED	512 / 0	125 / 0	0 / 0	0 / 0	205 / 0	0 / 0
I	842	415 / 0	125 / 0	0 / 0	0 / 0	0 / 0
G	722	415 / 0	125 / 0	0 / 0	182 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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)	FACTORED LC1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO			
A-B	0 / 88	-124.4	-124.4 0.18 (1)	H-D	0 / 498	0.11 (1)	0.11 (1)
B-C	0 / 31	-124.4	-124.4 0.17 (1)	H-E	-117 / 27	0.09 (1)	0.09 (1)
C-D	-545 / 0	-124.4	-124.4 0.13 (1)	C-H	-117 / 27	0.09 (1)	0.09 (1)
D-E	-545 / 0	-124.4	-124.4 0.13 (1)	I-C	-835 / 0	0.60 (1)	0.60 (1)
E-F	0 / 31	-124.4	-124.4 0.17 (1)	E-G	-835 / 0	0.60 (1)	0.60 (1)
I-B	-321 / 0	0.0	0.0 0.04 (1)				
G-F	-148 / 0	0.0	0.0 0.02 (1)				
I-H	0 / 387	-39.2	-39.2 0.35 (3)				
H-G	0 / 387	-39.2	-39.2 0.35 (3)				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 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, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-14
- 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 (0.40")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.40")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.18/1.00 (A-B:1), BC=0.35/1.00 (H-I:3),
WB=0.60/1.00 (C-I:1), SSI=0.18/1.00 (H-I:3)

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 850 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



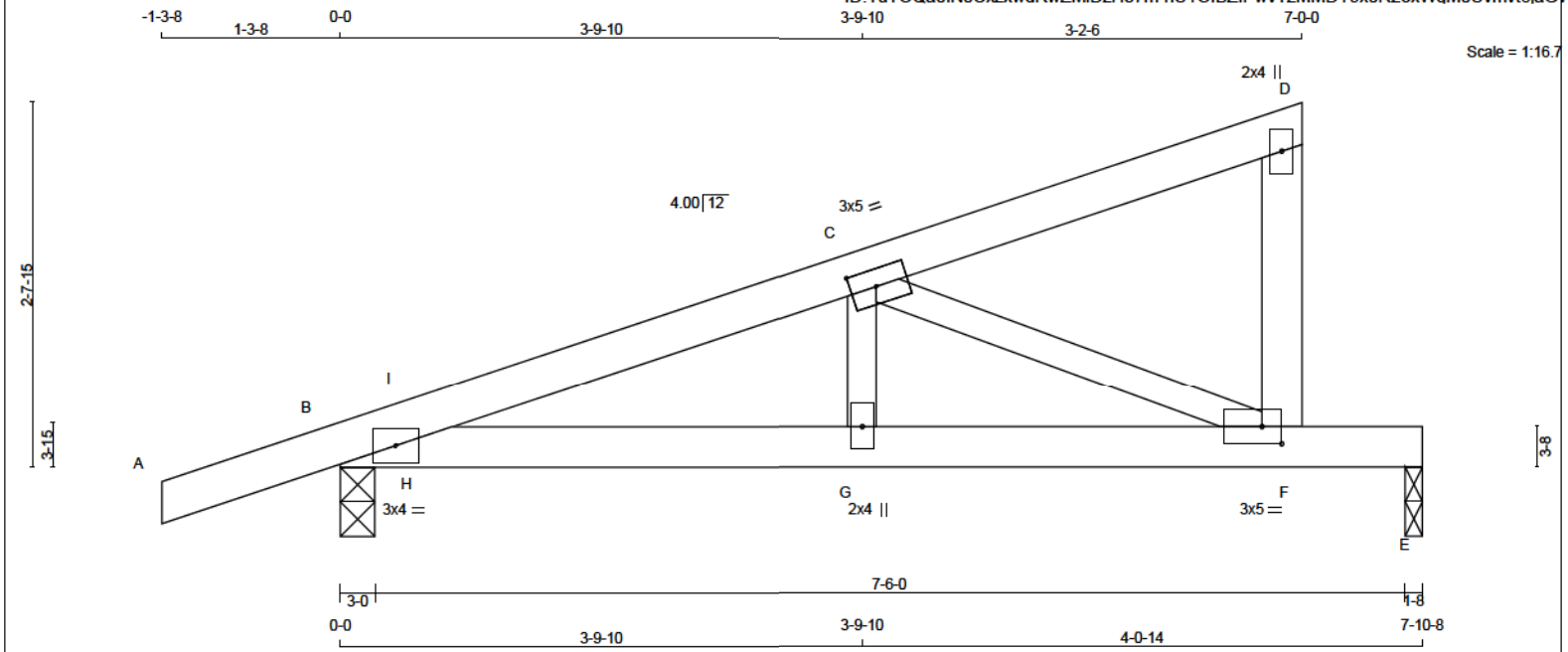
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			





TOTAL WEIGHT = 6 X 25 = 148 LB

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
F - D	2x4	DRY No.2	SPF
B - E	2x4	DRY No.2	SPF

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TM81-I	MT20	3.0	4.0		
C	TMWW-I	MT20	3.0	5.0	1.50	2.25
D	TMV+p	MT20	2.0	4.0		
F	BMVW-I	MT20	3.0	5.0	1.50	1.75
G	BMW+w	MT20	2.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
B	805	805	3-0	1-8
E	542	542	1-8	1-8

UNFACTORED REACTIONS

JT	1ST CASE	MAX	MIN	COMPONENT REACTIONS
B	588	364 / 0	83 / 0	PERM. LIVE 0 / 0, WIND 0 / 0, DEAD 141 / 0, SOIL 0 / 0
E	407	217 / 0	83 / 0	PERM. LIVE 0 / 0, WIND 0 / 0, DEAD 107 / 0, SOIL 0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.67 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
A-B	0 / 25	-124.4 -124.4	0.16 (1)	10.00	G-C	0 / 395	0.09 (2)
B-I	-1240 / 0	-124.4 -124.4	0.02 (1)	5.76	C-F	-1255 / 0	0.26 (1)
I-C	-1215 / 0	-124.4 -124.4	0.14 (1)	5.67	H-I	-162 / 20	0.00 (1)
C-D	-12 / 0	-124.4 -124.4	0.13 (1)	6.25			
F-D	-162 / 0	0.0	0.02 (1)	7.81			
B-H	0 / 1163	-39.2	-39.2	0.32 (1)	10.00		
H-G	0 / 1163	-39.2	-39.2	0.38 (1)	10.00		
G-F	0 / 1163	-39.2	-39.2	0.81 (1)	10.00		
F-E	0 / 0	-39.2	-39.2	0.62 (1)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 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:
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- 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 (0.26")
CALCULATED VERT. DEFL.(LL) = L/969 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (0.26")
CALCULATED VERT. DEFL.(TL) = L/658 (0.14")

CSI: TC=0.16/1.00 (A-B:1), BC=0.81/1.00 (F-G:1),
WB=0.26/1.00 (C-F:1), SSI=0.42/1.00 (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	850	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (C) (INPUT = 0.90)
JSI METAL = 0.48 (B) (INPUT = 1.00)

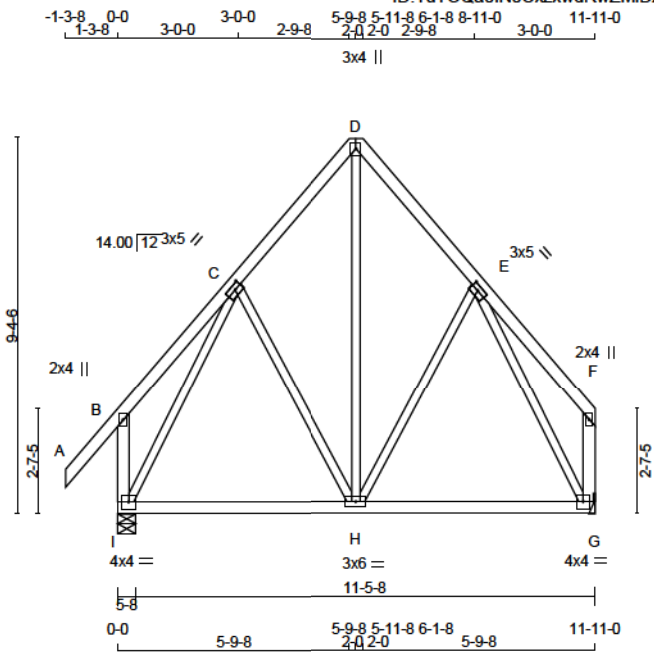


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Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



Scale = 1:57.4

TOTAL WEIGHT = 2 X 69 = 138 LB

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	X
B	TMV+p	MT20	2.0	4.0	
C	TMWW-I	MT20	3.0	5.0	1.50 2.25
D	TTW+p	MT20	3.0	4.0	
E	TMWW-I	MT20	3.0	5.0	1.50 2.25
F	TMV+p	MT20	2.0	4.0	
G	BMVW1-I	MT20	4.0	4.0	
H	BMWW-I	MT20	3.0	6.0	
I	BMVW1-I	MT20	4.0	4.0	

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

BEARINGS					
JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG	
I	1150	0	1150	0	5-8
G	975	0	975	0	MECHANICAL

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

UNFACTORED REACTIONS						
JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD
I	COMBINED	512 / 0	125 / 0	0 / 0	0 / 0	205 / 0
G		415 / 0	125 / 0	0 / 0	0 / 0	182 / 0

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

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)	FACTORED LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO			
A-B	0 / 88	-124.4	-124.4 0.18 (1)	C-H	-111 / 28	0.08 (1)	0.08 (1)
B-C	0 / 32	-124.4	-124.4 0.17 (1)	H-E	-110 / 28	0.08 (1)	0.08 (1)
C-D	-544 / 0	-124.4	-124.4 0.13 (1)	I-C	-840 / 0	0.58 (1)	0.58 (1)
D-E	-544 / 0	-124.4	-124.4 0.13 (1)	E-G	-840 / 0	0.58 (1)	0.58 (1)
E-F	0 / 32	-124.4	-124.4 0.17 (1)	H-D	0 / 484	0.11 (1)	0.11 (1)
I-B	-314 / 0	0.0	0.0 0.04 (1)				
G-F	-140 / 0	0.0	0.0 0.02 (1)				
I-H	0 / 386	-39.2	-39.2 0.35 (3)				
H-G	0 / 386	-39.2	-39.2 0.35 (3)				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 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, ABC 2019
- 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 (0.40")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.40")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.18/1.00 (A-B:1), BC=0.35/1.00 (H-I:3),
WB=0.58/1.00 (C-I:1), SS=0.18/1.00 (G-H:3)

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 850 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

1) ENSURE TRUSS HAS BEEN DESIGNED WITH ADDITIONAL TOP CHORD DEAD LOAD EQUAL TO OR GREATER THAN WEIGHT OF SOLAR PANELS BEING INSTALLED

2) ATTACH SOLAR PANELS TO EACH TRUSS LOCATED UNDER THE SOLAR PANELS (I.E. @ 24" C/C PERPENDICULAR TO THE TRUSS DIRECTION)

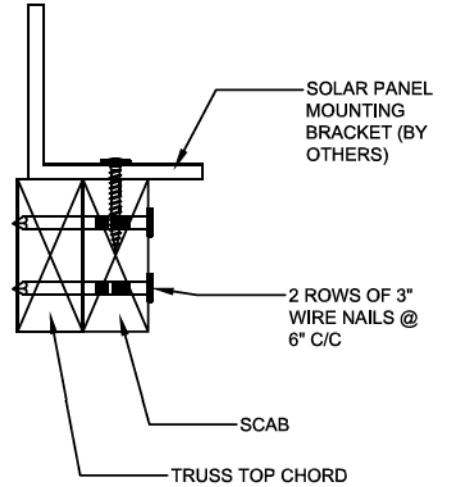
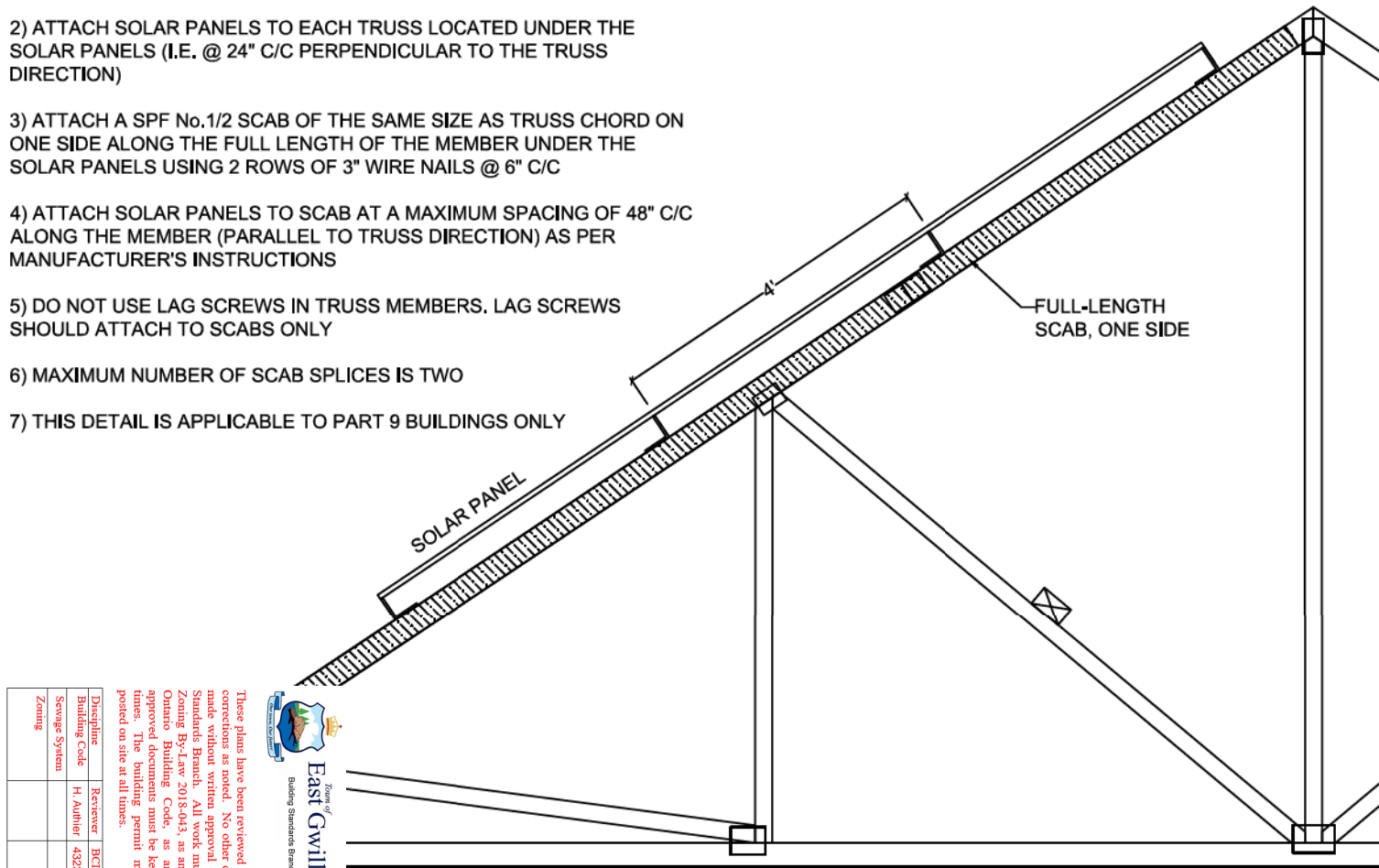
3) ATTACH A SPF No.1/2 SCAB OF THE SAME SIZE AS TRUSS CHORD ON ONE SIDE ALONG THE FULL LENGTH OF THE MEMBER UNDER THE SOLAR PANELS USING 2 ROWS OF 3" WIRE NAILS @ 6" C/C

4) ATTACH SOLAR PANELS TO SCAB AT A MAXIMUM SPACING OF 48" C/C ALONG THE MEMBER (PARALLEL TO TRUSS DIRECTION) AS PER MANUFACTURER'S INSTRUCTIONS

5) DO NOT USE LAG SCREWS IN TRUSS MEMBERS. LAG SCREWS SHOULD ATTACH TO SCABS ONLY

6) MAXIMUM NUMBER OF SCAB SPLICES IS TWO

7) THIS DETAIL IS APPLICABLE TO PART 9 BUILDINGS ONLY



Discipline	Reviewer	RCN	Date
Building Code	H. Author	43236	2021-02-03
Seismic System			
Zoning			



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NE1220-115
GREENPARK - TRINAR
HALL - LOT 19

Detail for Installation of Solar Panels - Scab Method



NE1220-115
GREENPARK - TRINAR
HALL - LOT 19

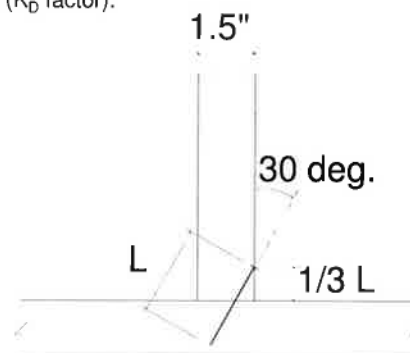
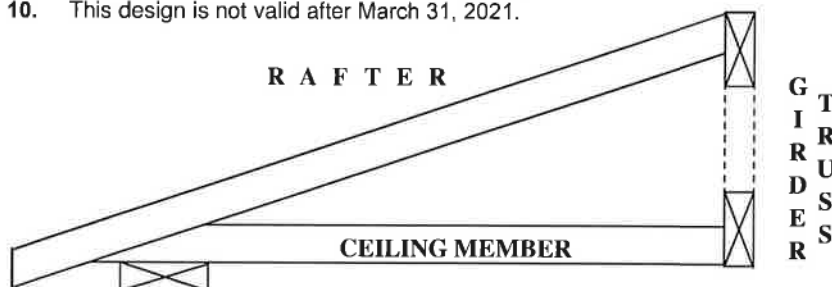
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B97791H1

NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL LATERAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	132	147
	3.25	0.144	132	147
	3.50	0.160	159	177
COMMON SPIRAL	3.00	0.122	97	108
	3.25	0.122	97	108
	3.50	0.152	145	162

NOTES:

1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.4.1.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in tables below.
5. Nail values in table are based on the following relative lumber densities: G = 0.42 (SPF), G = 0.49 (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See next page for nailing on bearing plate).
7. For loads due to **wind** the nail lateral capacity in this table may be multiplied by 1.15 (K_D factor).
8. Lumber must be dry (< 19% moisture content) at the time of nail installation.
9. Nail values in this table comply with CSA O86-14, section 12.9.4
10. This design is not valid after March 31, 2021.



TOE-NAIL INSTALLATION

Nail type	Common wire	Common spiral	Common wire	Common spiral
Nail dia. (in)	0.160	0.152	0.144	0.122
	(3.5" nail)		(3" and 3.25" nail)	
LUMBER SIZE	MAXIMUM NUMBER OF TOE-NAILS			
2X4 SPF	2	2	3	3
2X4 D. Fir	2	2	2	2
2X6 SPF	4	4	4	5
2X6 D. Fir	3	3	3	4

MiTek

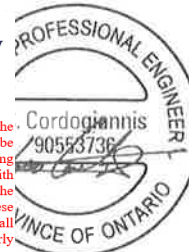
MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

PEO
Certificate No. 10889485



Dec

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

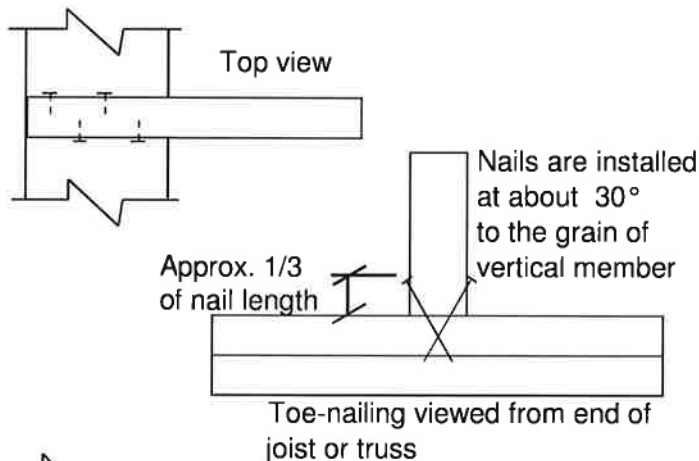
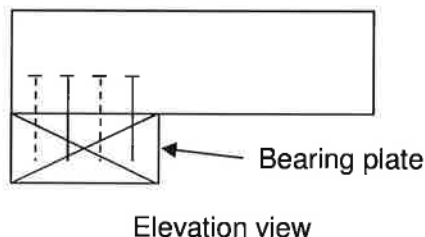
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52
COMMON SPIRAL	3.00	0.122	26	36
	3.25	0.122	28	40
	3.50	0.152	36	50

Note: If using truss with D. Fir lumber and S-P-F bearing plate, use values in table for S-P-F.

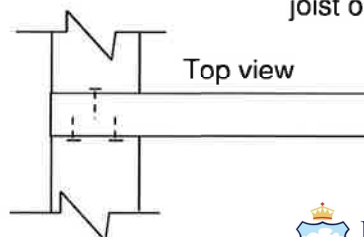
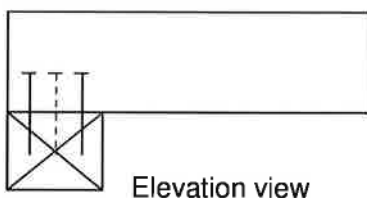
NOTES:

1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to **wind** or **earthquake** load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher than the maximum toe-nail withdrawal capacity.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.5.2.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in table above.
5. Nail values in table are based on the following relative lumber densities: $G = 0.42$ (SPF), $G = 0.49$ (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See drawing on detail B37579H1).
7. Lumber must be dry (< 19% moisture content) at the time of nail installation.
8. Nail values in this table comply with CSA O86-14, section 12.9.5
9. This design is not valid after March 31, 2021.

Toe-nailing on 2x6 Bearing Plate



Toe-nailing on 2x4 Bearing Plate



MiTek

MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7



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