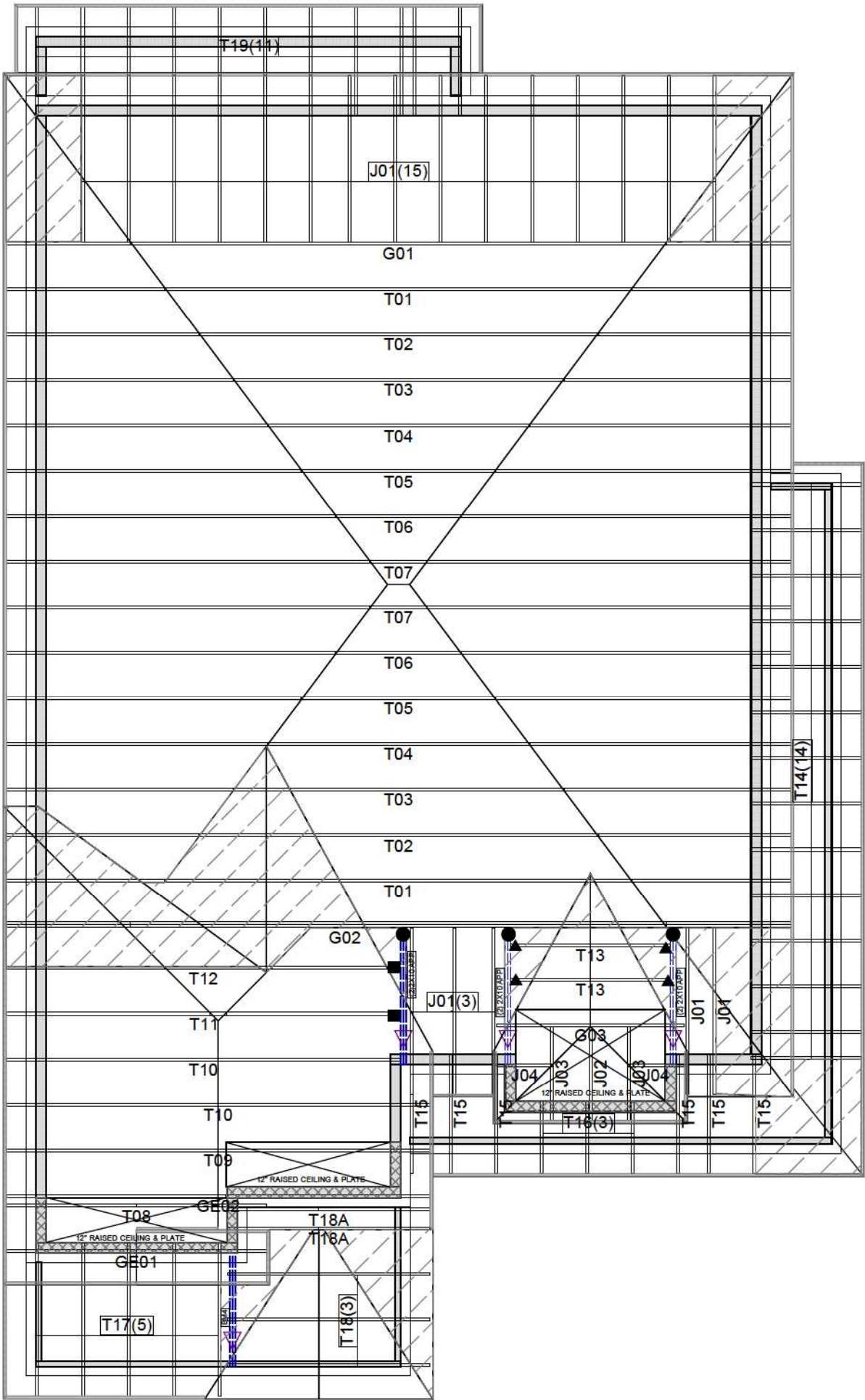




Hanger Name	Symbol	QTY
LUS24	▲	4
LJS26DS	■	2
HGUS26-2	●	3

Additional 5 psf dead load has been added to Top Chord loading to account for weight of solar panels. Solar panels must be installed as per Detail in Engineering Package



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			



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 SPF @ 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 #	T20-00763
Address	TRINAR HALL EAST GWILLIMBURY, ON
Model	GLENWAY 3A ELEV 1
Sales Rep	RALPH MIRIGELLO
Designer	DM
Date	12/16/2020
Path	C:\DATA\JOBS\GREENPARK\TRINAR HALL\MODELS\GLENWAY 3A\ELEV 1\T-GLENWAY3A-1\

DESIGN INFORMATION

Code	NBCC 2015
Bldg	Residential - HSB (NBCC Part 9)
TC LL	34.8 lb/ft²
TC DL	8.0 lb/ft²
BC LL	10.5 lb/ft²
BC DL	7.3 lb/ft²
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



NE1220-111
GREENPARK - TRINAR
HALL - GLENWAY 3A ELE 1

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 supports and do not necessarily take into account stability of the overall building
- Elevation of bearings must be carefully checked and shimmed as required to ensure level bearings
- Adequate wood truss bearing is the responsibility of the building designer

DIMENSIONS

- Geometry of the truss and dimensions indicated on the drawing must be followed for the installation of the installed truss.



Town of East Gwillimbury
Building Standards Branch BCIN #10487

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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			



2020/04/22

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ID: C4Uw68x0KkaQusmWusysU8zqDKl-YVtYtwEUw6NIY2LUf_ZQpG7Q1azpKbzfYXvpnujyb

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	6.0	8.0	2.25	3.75
C	TTWW-m	MT20	8.0	10.0	Edge	4.00
D	TMWW-t	MT20	4.0	6.0	1.75	2.25
E	TMW+w	MT20	2.0	4.0		
F	TS-t	MT20	3.0	8.0		
G	TMWW-t	MT20	4.0	6.0	1.75	2.25
H	TTWW-m	MT20	8.0	10.0	Edge	4.00
I	TMVW-t	MT20	6.0	8.0	2.25	3.75
K	BMV1+p	MT20	3.0	4.0	2.25	1.50
L	BMWW-t	MT20	4.0	8.0	2.00	2.25
M	BS-t	MT20	4.0	6.0		
N	BMWW-t	MT20	5.0	6.0	2.00	1.50
O	BMWWWW-t	MT20	6.0	10.0	3.50	5.00
P	BMWW-t	MT20	5.0	6.0	2.00	1.50
Q	BS-t	MT20	4.0	6.0		
R	BMWW-t	MT20	4.0	8.0	2.00	2.25
S	BMV1+p	MT20	3.0	4.0	2.25	1.50

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL = 0.82 (Q) (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.

Discipline

Reviewer

BCIN

Date

Building Code

H. Authier

43236

2021-02-08

Sewage System

Zoning

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Discipline

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BCIN

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Building Code

H. Authier

43236

2021-02-08

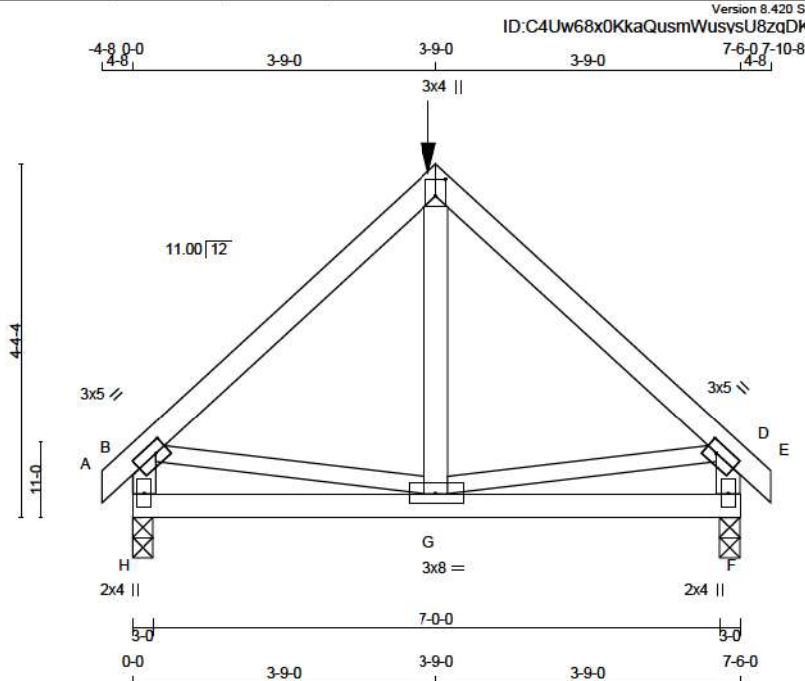
Sewage System

Zoning

East Gwillimbury

Building Standards Branch BCIN #10487

KOTT



Scale = 1:28.4

TOTAL WEIGHT = 33 lb

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

ALL WEBS EXCEPT			
B - G	2x3	DRY	No.2
G - D	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-I	MT20	3.0	5.0	1.50	1.50
C	TTW+P	MT20	3.0	4.0	2.50	1.50
D	TMVW-I	MT20	3.0	5.0	1.50	1.50
F	BMV1+P	MT20	2.0	4.0		
G	BMVWV-I	MT20	3.0	8.0		
H	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
H	895	0	895	0
F	895	0	895	0

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
H	659	392 / 0	104 / 0
F	659	392 / 0	104 / 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)	LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	UNBRACED LENGTH
FR-TO				FR-TO			
A-B	0 / 20	-124.4	-124.4	0.02 (1)	10.00	G-C	0 / 243
B-C	-868 / 0	-124.4	-124.4	0.35 (1)	8.25	B-G	0 / 498
C-D	-868 / 0	-124.4	-124.4	0.35 (1)	8.25	G-D	0 / 498
D-E	0 / 20	-124.4	-124.4	0.02 (1)	10.00		
H-B	-819 / 0	0.0	0.0	0.09 (1)	7.81		
F-D	-819 / 0	0.0	0.0	0.09 (1)	7.81		
H-G	0 / 0	-51.9	-51.9	0.18 (3)	10.00		
G-F	0 / 0	-51.9	-51.9	0.18 (3)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	3-9-0		-350		FRONT	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

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

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 3-9-0
END SETBACK = 3-9-0
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 (0.25")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.25")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.35/1.00 (B-C:1), BC=0.18/1.00 (F-G:3),
WB=0.12/1.00 (B-G:1), SSI=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.77 (B) (INPUT = 0.90)
JSI METAL = 0.25 (D) (INPUT = 1.00)



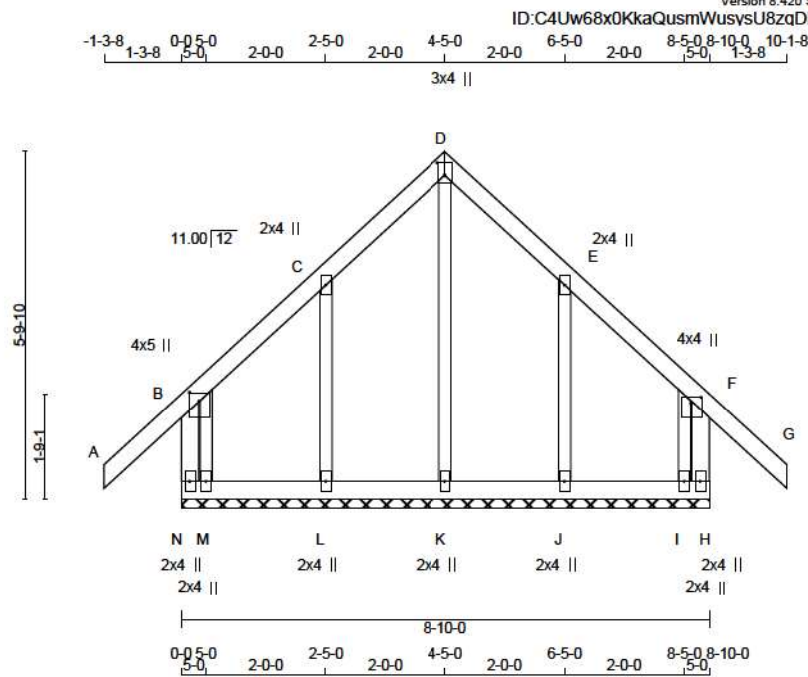
READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			





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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	5.0	1.75 2.00
C	TMVW+w	MT20	2.0	4.0	
D	TTW+p	MT20	3.0	4.0	2.50 1.50
E	TMVW+w	MT20	2.0	4.0	
F	TMVW+p	MT20	4.0	4.0	1.25 2.00
I, J, K, L, M	BMV1+p	MT20	2.0	4.0	
N	BMV1+p	MT20	2.0	4.0	

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

BEARINGS
THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX (LC)
FR-TO		FROM TO		FR-TO		FROM TO	
N-B	-296 / 0	0.0	0.0 0.03 (1)	K-D	-241 / 0	0.12 (1)	
A-B	0 / 58	-124.4	-124.4 0.17 (1)	L-C	-287 / 0	0.06 (1)	
B-C	-22 / 0	-124.4	-124.4 0.08 (1)	M-B	-40 / 0	0.01 (1)	
C-D	-12 / 0	-124.4	-124.4 0.07 (1)	J-E	-267 / 0	0.06 (1)	
D-E	-12 / 0	-124.4	-124.4 0.07 (1)	I-F	-40 / 0	0.01 (1)	
E-F	-22 / 0	-124.4	-124.4 0.08 (1)				
F-G	0 / 58	-124.4	-124.4 0.17 (1)				
H-F	-296 / 0	0.0	0.0 0.03 (1)				
N-M	0 / 25	-39.2	-39.2 0.03 (1)				
M-L	0 / 14	-39.2	-39.2 0.03 (3)				
L-K	0 / 7	-39.2	-39.2 0.03 (3)				
K-J	0 / 7	-39.2	-39.2 0.03 (3)				
J-I	0 / 14	-39.2	-39.2 0.03 (3)				
I-H	0 / 25	-39.2	-39.2 0.03 (1)				

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

CSI: TC=0.17/1.00 (A-B:1), BC=0.03/1.00 (L-M:3),
WB=0.12/1.00 (D-K:1), SSI=0.10/1.00 (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= 0.34 (D) (INPUT = 0.80)
JSI METAL= 0.14 (E) (INPUT = 1.00)

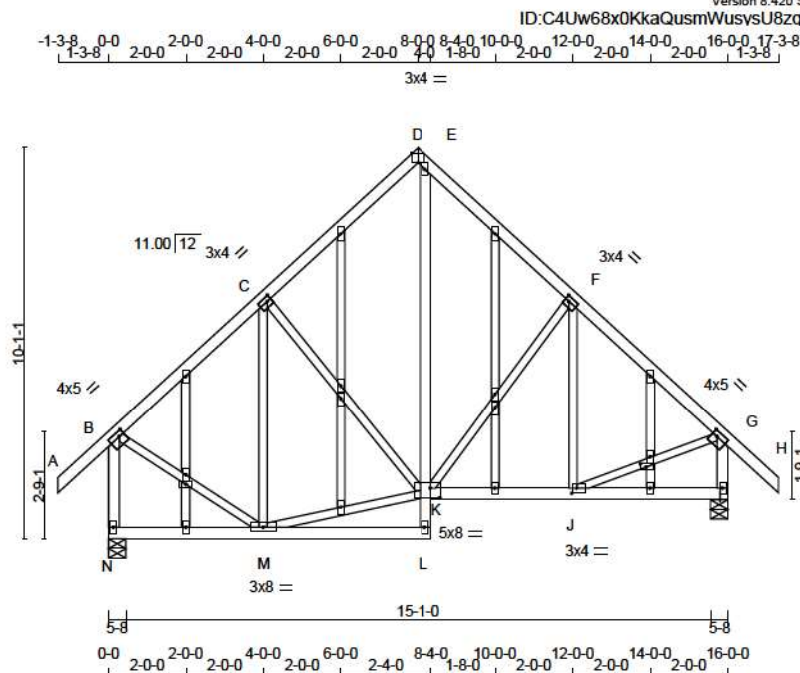


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LUMBER

N. L. G. A. RULES

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW-I	MT20	4.0	5.0	1.50	1.50
C TMWW-I	MT20	3.0	4.0	1.50	1.25
D TT-p	MT20	3.0	4.0	Edge	2.00
E TMV+p	MT20	2.0	4.0		
F TMWW-I	MT20	3.0	4.0	1.50	1.25
G TMVW-I	MT20	4.0	5.0	1.50	1.50
I BMV1+p	MT20	2.0	4.0		
J BMWW-I	MT20	3.0	4.0	1.50	1.50
K BVWWWW-I	MT20	5.0	8.0	3.00	3.00
L BMV+p	MT20	2.0	4.0		
M BMWWWW-I	MT20	3.0	8.0		
N BMV1+p	MT20	2.0	4.0		
O, P, Q, R, S, T, U, V, W, X, Y, Z					
O NP+w	MT20	2.0	4.0		
R NP-p	MT20	2.0	4.0		
Z NP-p	MT20	2.0	4.0	1.00	1.75

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
N	1482	0	1482	0	5-8	1-10
I	1482	0	1482	0	5-8	1-10

UNFACTORED REACTIONS

JT	MAX/MIN COMPONENT REACTIONS					
	1ST CASE	2ND CASE	3RD CASE	4TH CASE	5TH CASE	6TH CASE
N	1089	654 / 0	168 / 0	0 / 0	0 / 0	267 / 0
I	1089	654 / 0	168 / 0	0 / 0	0 / 0	267 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.46 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS			WEBS		
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORIZ. LOAD (LC1 MAX)	MEMB. MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LC1 MAX)	MAX. FACTORED HORIZ. LOAD (LC1 MAX)
FR-TO						
A-B	0 / 58	-124.4	-124.4 0.17 (1)	10.00	M-C -383 / 5	0.25 (1)
B-C	-906 / 0	-124.4	-124.4 0.34 (1)	8.01	K-F -430 / 0	0.31 (1)
C-D	-837 / 0	-124.4	-124.4 0.34 (1)	8.19	J-F -112 / 113	0.05 (1)
D-E	-211 / 0	-124.4	-124.4 0.34 (1)	8.25	B-M 0 / 813	0.18 (1)
E-F	-887 / 0	-124.4	-124.4 0.41 (1)	5.91	J-G 0 / 862	0.20 (1)
F-G	-1093 / 0	-124.4	-124.4 0.42 (1)	5.46	M-K 0 / 890	0.18 (1)
G-H	0 / 58	-124.4	-124.4 0.17 (1)	10.00	C-K -169 / 0	0.13 (1)
N-B	-1422 / 0	0.0	0.0 0.21 (1)	6.84		
I-G	-1419 / 0	0.0	0.0 0.15 (1)	6.84		
N-M	0 / 0	-39.2	-39.2 0.15 (3)	10.00		
M-L	0 / 24	-39.2	-39.2 0.15 (3)	10.00		
L-K	0 / 81	0.0	0.0 0.04 (1)	10.00		
K-E	0 / 757	0.0	0.0 0.16 (1)	10.00		
K-J	0 / 841	-39.2	-39.2 0.23 (2)	10.00		
J-I	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

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 (0.53")
CALCULATED VERT. DEFL. (LL) = L/999 (0.04")
ALLOWABLE DEFL. (TL) = L/360 (0.53")
CALCULATED VERT. DEFL. (TL) = L/999 (0.07")

CSI: TC=0.42/1.00 (F-G:1), BC=0.23/1.00 (J-K:2), WB=0.31/1.00 (F-K:1), SSI=0.51/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (J) (INPUT = 0.90)
JSI METAL = 0.39 (G) (INPUT = 1.00)



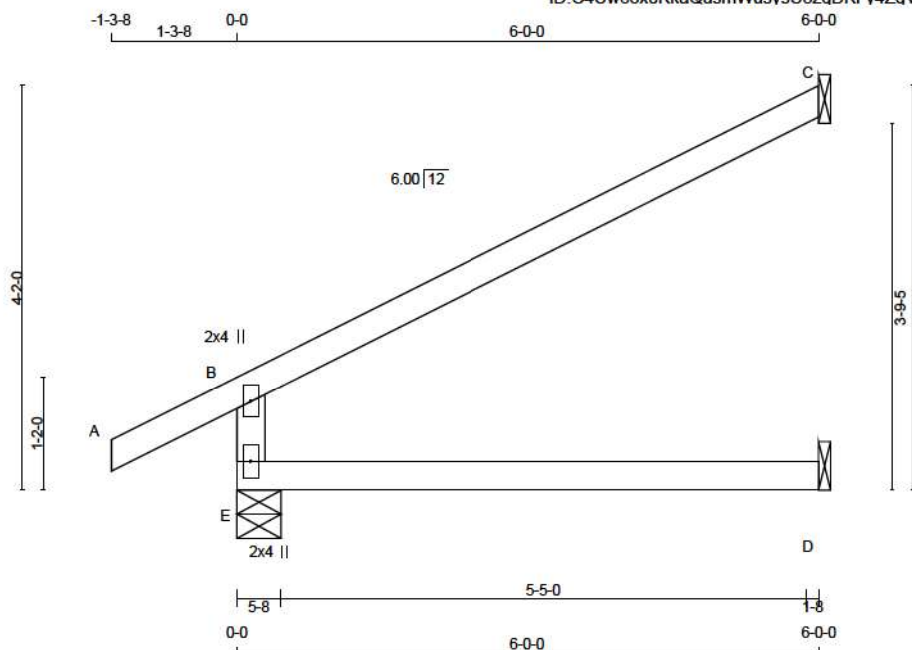
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			





TOTAL WEIGHT = 20 X 17 = 342 lb

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

DRY: SEASONED LUMBER.

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

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

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

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

UNFACTORED REACTIONS		1ST LCASE		MAX MIN COMPONENT REACTIONS		LIVE		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	563	355 / 0	74 / 0	0 / 0	0 / 0	133 / 0	0 / 0	E	563	355 / 0	74 / 0	0 / 0	0 / 0	133 / 0	0 / 0
C	193	157 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0	C	193	157 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0
D	88	0 / 0	52 / 0	0 / 0	0 / 0	36 / 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 FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
E-B	-635 / 0	E-B	-635 / 0
A-B	0 / 38	A-B	0 / 38
B-C	-42 / 0	B-C	-42 / 0
E-D	0 / 0	E-D	0 / 0

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

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)

MAX MIN MAX 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 = 0.00)
JSI METAL= 0.26 (B) (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.

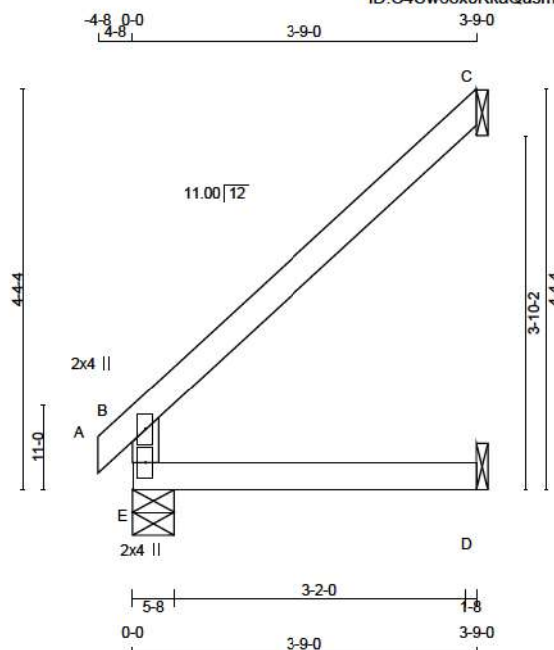


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			



Scale = 1:25.1



TOTAL WEIGHT = 12 lb

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

DRY: SEASONED LUMBER.

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT IN-SX
E	437	0	437	0	5-8
C	175	0	175	0	1-8
D	61	0	77	0	1-8

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

UNFACTORED REACTIONS							
JT	1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	319	196 / 0	46 / 0	0 / 0	0 / 0	77 / 0	0 / 0
C	120	98 / 0	0 / 0	0 / 0	0 / 0	23 / 0	0 / 0
D	55	0 / 0	33 / 0	0 / 0	0 / 0	23 / 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 FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO		FROM TO	LENGTH	FR-TO	
E-B	-350 / 0	0.0	0.0 0.07 (3)	7.81	
A-B	0 / 20	-124.4	-124.4 0.02 (1)	10.00	
B-C	-39 / 0	-124.4	-124.4 0.23 (1)	6.25	
E-D	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

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

CSI: TC=0.23/1.00 (B-C-1), BC=0.09/1.00 (D-E-3),
WB=0.00/1.00 (n/a-0), SSI=0.17/1.00 (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

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



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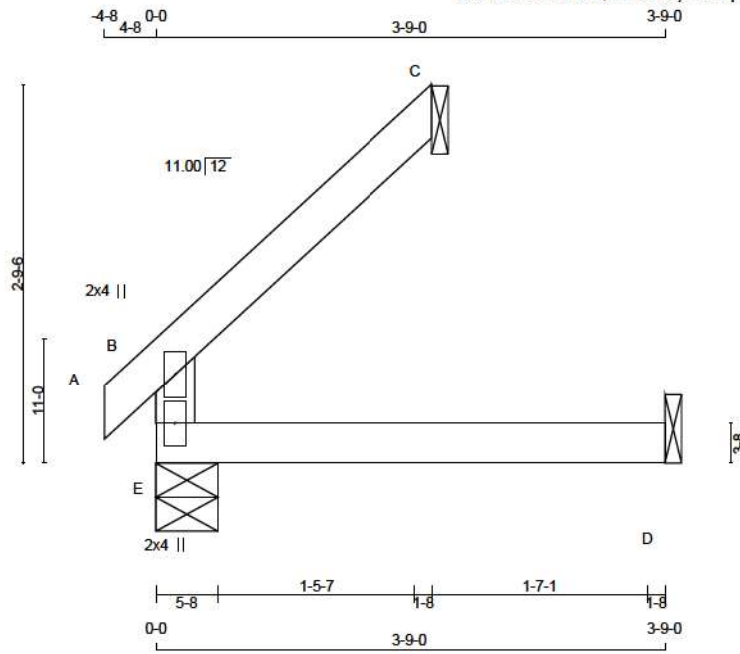


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			



Scale = 1:17.0



TOTAL WEIGHT = 2 X 9 = 18 lb

<u>LUMBER</u>				
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.

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
E	303	0	303	0	0	5-8	1-8		
C	95	0	95	0	0	1-8	1-8		
D	61	0	77	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	227	121 / 0	46 / 0	0 / 0	0 / 0	60 / 0	0 / 0		
C	66	53 / 0	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0		
D	55	0 / 0	33 / 0	0 / 0	0 / 0	23 / 0	0 / 0		

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORZ. LOAD (PLF)
FR-TO			
E-B	-217 / 0	0.0	0.0 0.07 (3)
A-B	0 / 20	-124.4 -124.4 0.02 (1)	10.00
B-C	-21 / 0	-124.4 -124.4 0.07 (1)	6.25
E-D	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

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

CSI: TC=0.07/1.00 (B-C-1), BC=0.09/1.00 (D-E-3),
WB=0.00/1.00 (n/a-0), SSI=0.09/1.00 (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

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.16 (B) (INPUT = 0.00)
JSI METAL= 0.12 (B) (INPUT = 1.00)

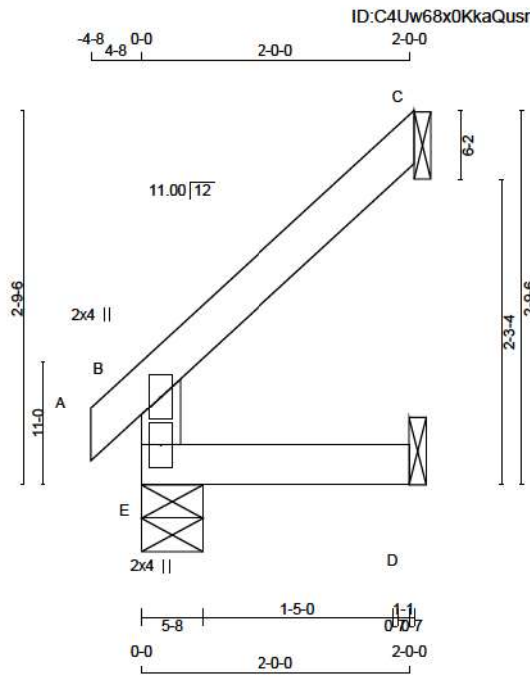


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			



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TOTAL WEIGHT = 2 X 7 = 14 lb

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

DRY: SEASONED LUMBER.

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	HORZ	DOWN	UPLIFT	BRG	IN-SX
E	261	0	0	261	0	0	0	5-8	1-8
C	95	0	0	95	0	0	0	1-8	1-8
D	34	0	0	43	0	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	190	121 / 0	24 / 0	0 / 0	0 / 0	44 / 0	0 / 0
C	66	53 / 0	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0
D	31	0 / 0	18 / 0	0 / 0	0 / 0	13 / 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 FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)
FR-TO			
E-B	-217 / 0	0.0 0.0 0.02 (3)	7.81
A-B	0 / 20	-124.4 -124.4 0.02 (1)	10.00
B-C	-21 / 0	-124.4 -124.4 0.09 (1)	6.25
E-D	0 / 0	-39.2 -39.2 0.03 (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 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.09/1.00 (B-C-1), BC=0.03/1.00 (D-E-3),
WB=0.00/1.00 (n/a-0), SSI=0.09/1.00 (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

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.16 (B) (INPUT = 0.00)
JSI METAL= 0.12 (B) (INPUT = 1.00)



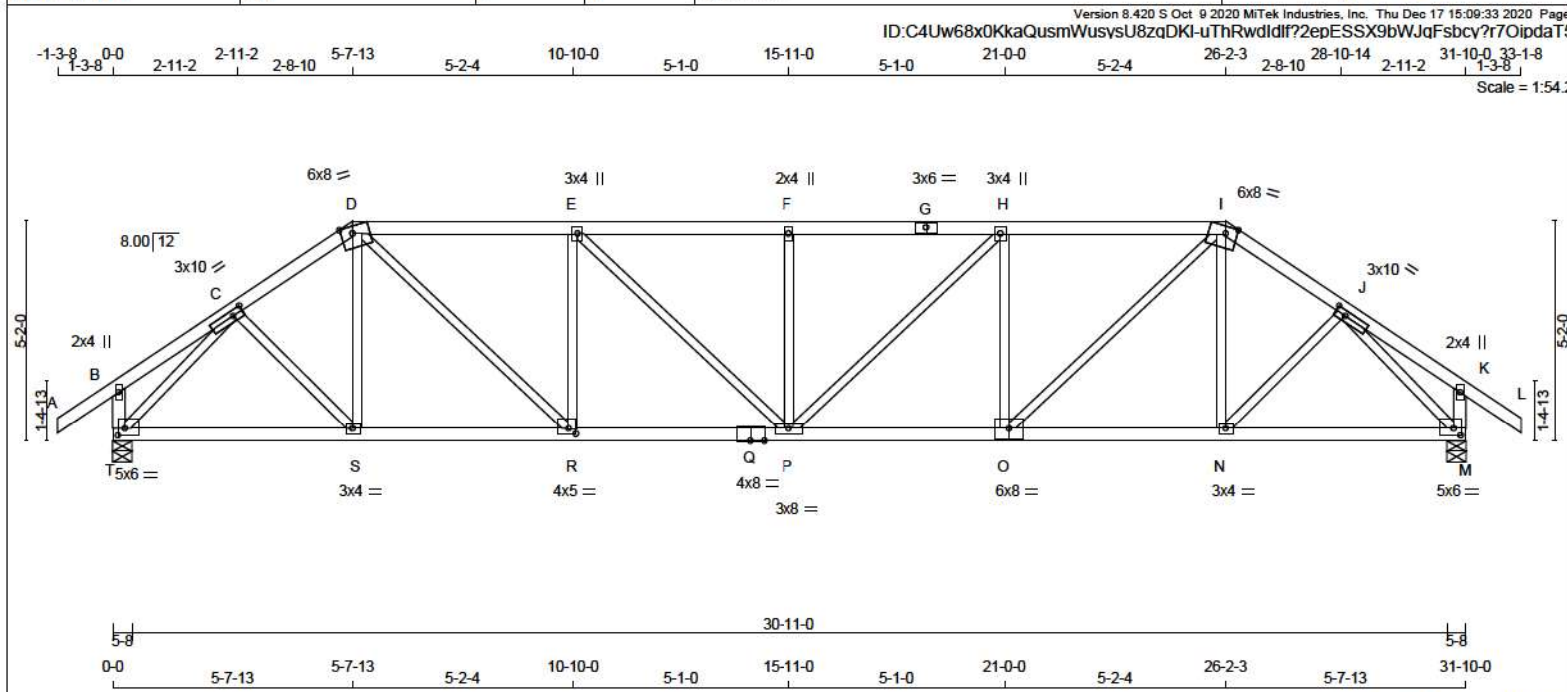
READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			





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 - I	2x4	DRY No.2	SPF
I - L	2x4	DRY No.2	SPF
L - M	2x4	DRY No.2	SPF
M - K	2x4	DRY No.2	SPF
K - O	2x4	DRY No.2	SPF
O - N	2x4	DRY No.2	SPF
N - M	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	TMV+p	MT20	2.0	4.0		
C	TMWW-t	MT20	3.0	10.0	1.50	3.00
D	TTWW-m	MT20	6.0	8.0	2.00	3.25
E	TMWW-t	MT20	3.0	4.0		
F	TMW+w	MT20	2.0	4.0		
G	TS-t	MT20	3.0	6.0		
H	TMWW-t	MT20	3.0	4.0		
I	TTWW-m	MT20	6.0	8.0	2.00	3.25
J	TMWW-t	MT20	3.0	10.0	1.50	3.00
K	TMV+p	MT20	2.0	4.0		
M	BMVW1-t	MT20	5.0	6.0	2.00	2.00
N	BMVW-t	MT20	3.0	4.0		
O	BSVW-t	MT20	6.0	8.0		
P	BMVW-t	MT20	3.0	4.0		
Q	BS-t	MT20	4.0	8.0		
R	BMVW-t	MT20	4.0	5.0	1.50	2.00
S	BMVW-t	MT20	3.0	4.0		
T	BMVW1-t	MT20	5.0	6.0	2.00	2.00



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.

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
T	2776 0	2776 0	5-8	3-13
M	2776 0	2776 0	5-8	3-13

UNFACTORED REACTIONS

JT	1ST CASE	2ND CASE	3RD CASE	4TH CASE	5TH CASE	6TH CASE	7TH CASE	8TH CASE	9TH CASE	10TH CASE
T	2047	1204 / 0	334 / 0	0 / 0	0 / 0	0 / 0	509 / 0	0 / 0	0 / 0	0 / 0
M	2047	1204 / 0	334 / 0	0 / 0	0 / 0	0 / 0	509 / 0	0 / 0	0 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.61 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)
A-B	0 / 47	-124.4 -124.4 0.17 (1)	10.00	C-S 0 / 374 0.08 (1)
B-C	0 / 16	-124.4 -124.4 0.12 (1)	10.00	S-D -20 / 139 0.03 (3)
C-D	-3046 / 0	-124.4 -124.4 0.23 (1)	3.82	D-R 0 / 1893 0.43 (1)
D-E	-3898 / 0	-124.4 -124.4 0.80 (1)	2.83	R-E -1113 / 0 0.44 (1)
E-F	-4312 / 0	-124.4 -124.4 0.86 (1)	2.61	F-P 0 / 572 0.13 (1)
F-G	-4312 / 0	-124.4 -124.4 0.86 (1)	2.61	P-F -582 / 0 0.23 (1)
G-H	-4312 / 0	-124.4 -124.4 0.86 (1)	2.61	H-P 0 / 588 0.13 (1)
H-I	-3887 / 0	-124.4 -124.4 0.80 (1)	2.83	O-H -1124 / 0 0.44 (1)
I-J	-3052 / 0	-124.4 -124.4 0.23 (1)	3.82	O-I 0 / 1874 0.42 (1)
J-K	0 / 16	-124.4 -124.4 0.12 (1)	10.00	N-I -5 / 180 0.04 (3)
K-L	0 / 47	-124.4 -124.4 0.17 (1)	10.00	N-J 0 / 375 0.08 (1)
T-B	-318 / 0	0.0 0.0 0.03 (1)	7.81	T-C -3268 / 0 0.89 (1)
M-K	-318 / 0	0.0 0.0 0.03 (1)	7.81	J-M -3271 / 0 0.89 (1)
T-S	0 / 2255	-39.2 -39.2 0.53 (1)	10.00	
S-R	0 / 2517	-39.2 -39.2 0.57 (1)	10.00	
R-Q	0 / 3899	-39.2 -39.2 0.74 (1)	10.00	
Q-P	0 / 3899	-39.2 -39.2 0.74 (1)	10.00	
P-O	0 / 3887	-39.2 -39.2 0.75 (1)	10.00	
O-N	0 / 2520	-39.2 -39.2 0.59 (1)	10.00	
N-M	0 / 2257	-39.2 -39.2 0.54 (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

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, 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 (1.06")
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.22")
ALLOWABLE DEFL.(TL)= L/360 (1.06")
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.38")

CSI: TC=0.86/1.00 (F-H-1) , BC=0.75/1.00 (O-P-1) , WB=0.89/1.00 (J-M-1) , SSI=0.30/1.00 (H-I-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

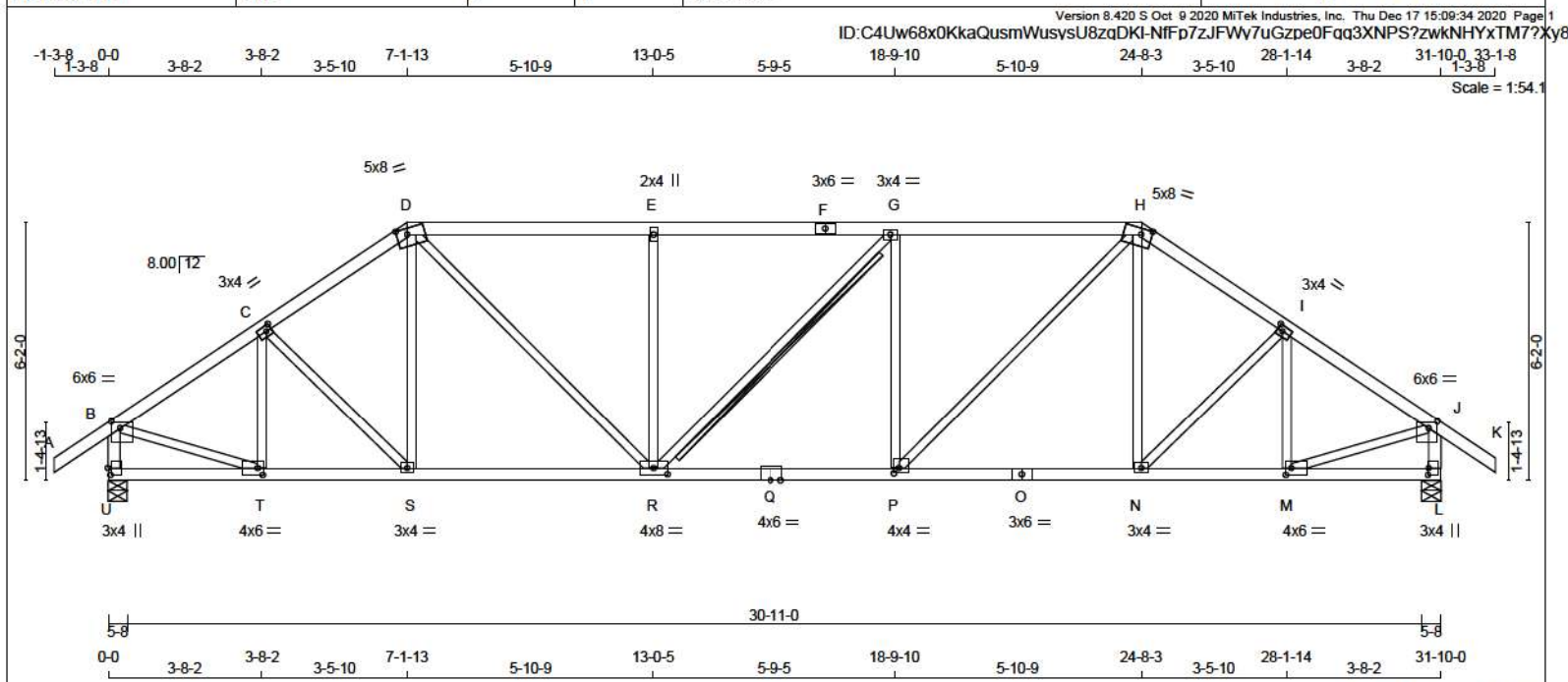
JSI GRIP= 0.90 (H) (INPUT = 0.90)
JSI METAL = 0.83 (Q) (INPUT = 1.00)



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			





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

DRY- SEASONED LUMBER

PLATES (table is in inches)						
J	T	TYPE	PLATES	W	LEN	Y X
B	TMWV-t		MTZ0	6.0	6.0	2.00 2.50
C	BMWV-t		MTZ0	3.0	4.0	1.50 1.50
D	TTWV-m		MTZ0	5.0	8.0	1.75 3.00
E	TMW+w		MTZ0	2.0	4.0	
F	TS-t		MTZ0	3.0	6.0	
G	TMWV-t		MTZ0	3.0	4.0	
H	TTWV-m		MTZ0	5.0	8.0	1.75 3.00
I	TMWV-t		MTZ0	3.0	4.0	1.50 1.50
J	TMWV-p		MTZ0	6.0	6.0	2.00 2.50
L	BMV1+p		MTZ0	3.0	4.0	2.00 0.25
M	BMWV-t		MTZ0	4.0	6.0	2.00 1.50
N	BMWV-t		MTZ0	3.0	4.0	
O	BS-t		MTZ0	3.0	6.0	
P	BMWV-t		MTZ0	4.0	4.0	1.50 1.50
Q	BS-t		MTZ0	4.0	6.0	
R	BMWVW-t		MTZ0	4.0	8.0	1.75 4.00
S	BMWV-t		MTZ0	3.0	4.0	
T	BMWV-t		MTZ0	4.0	6.0	2.00 1.50
U	BMV1+p		MTZ0	3.0	4.0	2.00 0.75

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
U	2776	0	2776	0	5-8	5-8
L	2776	0	2776	0	5-8	5-8

UNFACTORED REACTIONS

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
U	2047	1204 / 0	334 / 0	0 / 0	0 / 0	508 / 0	0 / 0
L	2047	1204 / 0	334 / 0	0 / 0	0 / 0	508 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.81 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

2x4 DRY SPF No.2 T-BRACE AT G-R

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 8" 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)	LC1 MAX. CSI (LC)	MAX. UNBRAC. LENGTH-FT	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 147	-124.4	-124.4 0.17 (1)	10.00	T-C	-595 / 0	0.14 (1)
B-C	-2920 / 0	-124.4	-124.4 0.37 (1)	3.75	C-S	0 / 42	0.01 (2)
C-D	-3011 / 0	-124.4	-124.4 0.37 (1)	3.69	S-D	0 / 221	0.05 (3)
D-E	-3497 / 0	-124.4	-124.4 0.92 (1)	2.83	D-R	0 / 1435	0.32 (1)
E-F	-3497 / 0	-124.4	-124.4 0.92 (1)	2.81	R-E	-784 / 0	0.47 (1)
F-G	-3497 / 0	-124.4	-124.4 0.92 (1)	2.81	R-G	-3 / 0	0.00 (1)
G-H	-3499 / 0	-124.4	-124.4 0.93 (1)	2.81	P-G	-785 / 0	0.47 (1)
H-I	-3011 / 0	-124.4	-124.4 0.37 (1)	3.69	P-H	0 / 1438	0.32 (1)
I-J	-2921 / 0	-124.4	-124.4 0.37 (1)	3.75	N-H	0 / 220	0.05 (3)
J-K	0 / 147	-124.4	-124.4 0.17 (1)	10.00	N-I	0 / 42	0.01 (2)
U-B	-2707 / 0	0.0	0.0 0.28 (1)	5.23	M-I	-594 / 0	0.14 (1)
L-J	-2707 / 0	0.0	0.0 0.28 (1)	5.23	B-T	0 / 2555	0.57 (1)
					M-J	0 / 2555	0.57 (1)
U-T	0 / 0	-39.2	-39.2 0.10 (3)	10.00			
T-S	0 / 2451	-39.2	-39.2 0.51 (1)	10.00			
S-R	0 / 2481	-39.2	-39.2 0.53 (1)	10.00			
R-Q	0 / 3499	-39.2	-39.2 0.70 (1)	10.00			
Q-P	0 / 3499	-39.2	-39.2 0.70 (1)	10.00			
P-O	0 / 2481	-39.2	-39.2 0.54 (1)	10.00			
O-N	0 / 2481	-39.2	-39.2 0.54 (1)	10.00			
N-M	0 / 2451	-39.2	-39.2 0.51 (1)	10.00			
M-L	0 / 0	-39.2	-39.2 0.10 (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 (1.06")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.17")
ALLOWABLE DEFL.(TL)= L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.29")

CSI: TC=0.93/1.00 (G-H:1), BC=0.70/1.00 (P-R:1),
WB=0.57/1.00 (L-M:1), SS=0.34/1.00 (G-H:1).

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES			
PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
	MAX MIN	MAX MIN	MAX MIN

	MAX	MIN	MAX	MIN	MAX	MIN
MT20	650	371	1747	788	1987	1873

PLATE PLACEMENT TOL. 0.050 IN.

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (H) (INPUT = 0.90)
JSI METAL= 0.88 (O) (INPUT = 1.00)



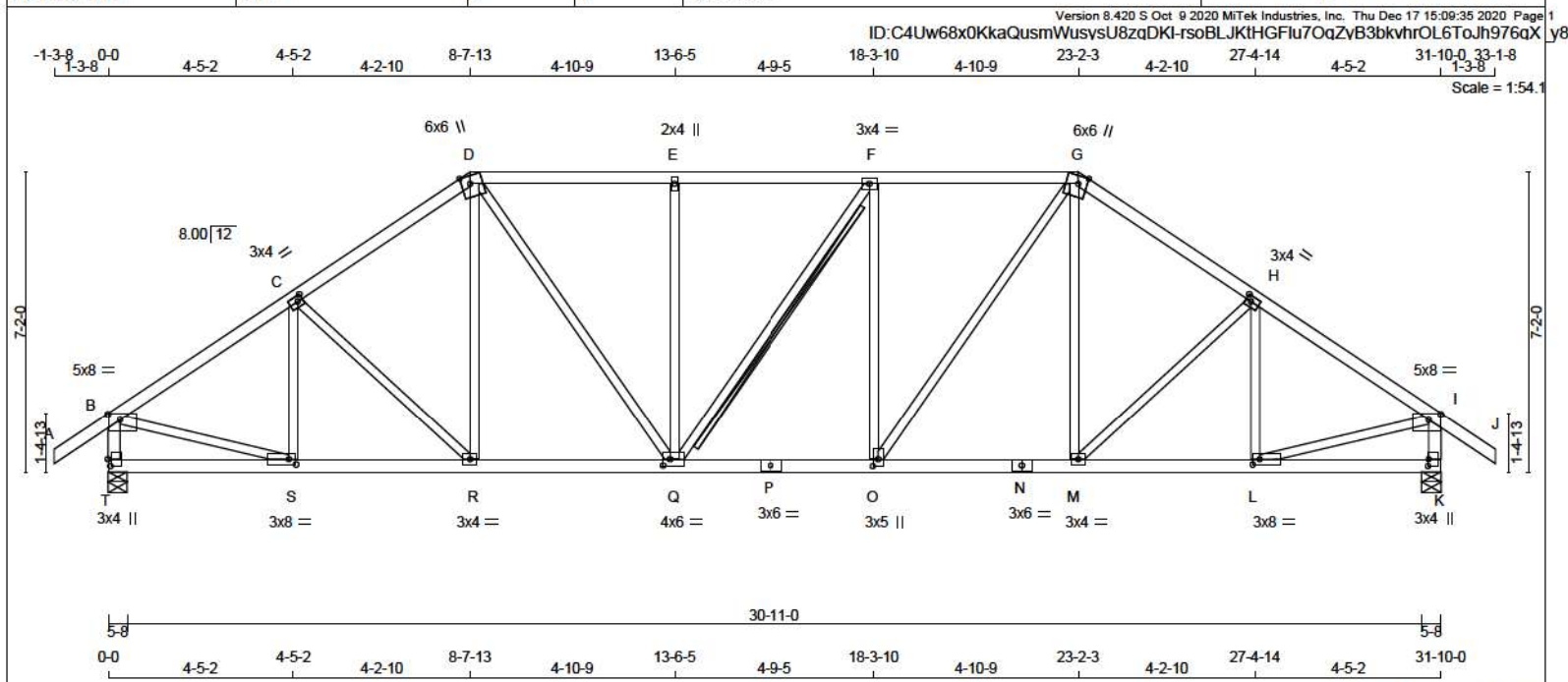
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			





LUMBER		N. L. G. A. RULES		LUMBER		DESCR.	
CHORDS	SIZE						
A - D	2x4	DRY	No.2				SPF
D - G	2x4	DRY	No.2				SPF
G - J	2x4	DRY	No.2				SPF
T - B	2x4	DRY	No.2				SPF
K - I	2x4	DRY	No.2				SPF
T - P	2x4	DRY	No.2				SPF
P - 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)						
J	TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	MT20	5.0	8.0	1.50	1.50
C	BMWV-t	MT20	3.0	4.0	1.50	1.50
D	TTWV+m	MT20	6.0	6.0	Edge	2.50
E	TMWV+w	MT20	2.0	4.0		
F	TMWV-t	MT20	3.0	4.0		
G	TTWV+m	MT20	6.0	8.0	Edge	2.50
H	TMWV-t	MT20	3.0	4.0	1.50	1.50
I	TMWV-p	MT20	5.0	8.0	1.50	1.50
K	BMV1+p	MT20	3.0	4.0	2.00	0.25
L	BMWV-t	MT20	3.0	8.0	1.50	2.00
M	BMWV-t	MT20	3.0	4.0		
N	BS-t	MT20	3.0	6.0		
O	BMWV+t	MT20	3.0	5.0	2.00	1.50
P	BS-t	MT20	3.0	6.0		
Q	BMWV-t	MT20	4.0	6.0	1.75	2.00
R	BMWV-t	MT20	3.0	4.0		
S	BMWV-t	MT20	3.0	8.0	1.50	2.00
T	BMV1+o	MT20	3.0	4.0	2.00	0.75

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

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

BEARINGS						
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT IN-SX	IN-SX
T	2776	0	2776	0	0	5-8
K	2776	0	2776	0	0	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
T	2047	1204 / 0	334 / 0	0 / 0	0 / 0	509 / 0	0 / 0
K	2047	1204 / 0	334 / 0	0 / 0	0 / 0	509 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.63 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

2x4 DRY SPF No.2 T-BRACE AT F-Q

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS.
@ 8" 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

LOADING
TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LOAD CS1 (LBS)	MAX CS2 (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CS1 (LBS)	MAX CS2 (LBS)	
FR-TO		FROM TO		LENGTH	FR-TO				
A-B	0 / 47	-124.4	-124.4	0.17 (1)	10.00	S-C	-442 / 0	0.13 (1)	
B-C	-3020 / 0	-124.4	-124.4	0.41 (1)	3.87	C-R	-194 / 0	0.12 (1)	
C-D	-2922 / 0	-124.4	-124.4	0.40 (1)	3.74	R-D	0 / 338	0.08 (2)	
D-E	-2996 / 0	-124.4	-124.4	0.44 (1)	3.83	D-Q	0 / 1022	0.23 (1)	
E-F	-2996 / 0	-124.4	-124.4	0.41 (1)	3.87	Q-E	-646 / 0	0.58 (1)	
F-G	-2996 / 0	-124.4	-124.4	0.44 (1)	3.83	Q-F	-4 / 0	0.00 (1)	
G-H	-2922 / 0	-124.4	-124.4	0.40 (1)	3.74	O-G	-847 / 0	0.58 (1)	
H-I	-3020 / 0	-124.4	-124.4	0.41 (1)	3.87	O-G	0 / 1027	0.23 (1)	
I-J	0 / 47	-124.4	-124.4	0.17 (1)	10.00	M-G	0 / 336	0.08 (2)	
T-B	-2700 / 0	0.0	0.0	0.28 (1)	5.23	M-H	-194 / 0	0.12 (1)	
K-I	-2700 / 0	0.0	0.0	0.28 (1)	5.23	L-H	-441 / 0	0.12 (1)	
						B-S	0 / 2615	0.59 (1)	
						L-I	0 / 2615	0.59 (1)	
T-S	0 / 0	-39.2	-39.2	0.13 (3)	10.00				
S-R	0 / 2540	-39.2	-39.2	0.50 (1)	10.00				
R-Q	0 / 2403	-39.2	-39.2	0.48 (1)	10.00				
Q-P	0 / 2998	-39.2	-39.2	0.57 (1)	10.00				
P-O	0 / 2998	-39.2	-39.2	0.57 (1)	10.00				
O-N	0 / 2403	-39.2	-39.2	0.48 (1)	10.00				
N-M	0 / 2403	-39.2	-39.2	0.48 (1)	10.00				
M-L	0 / 2541	-39.2	-39.2	0.50 (1)	10.00				
L-K	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 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 (1.08")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.14")
ALLOWABLE DEFL.(TL)= L/360 (1.08")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.24")

CSI: TC=0.44/1.00 (D-E:1), BC=0.57/1.00 (O-Q: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

MI20	630	371	1747	788	1867	1873
1970-1972	1973	1974	1975	1976	1977	1978

PLATE PLACEMENT TOL. = 0.250 INCHES

PLATE ROTATION TOL. = 5.0 Deg.

JSI METAL= 0.97 (P) (INPUT = 1.00)



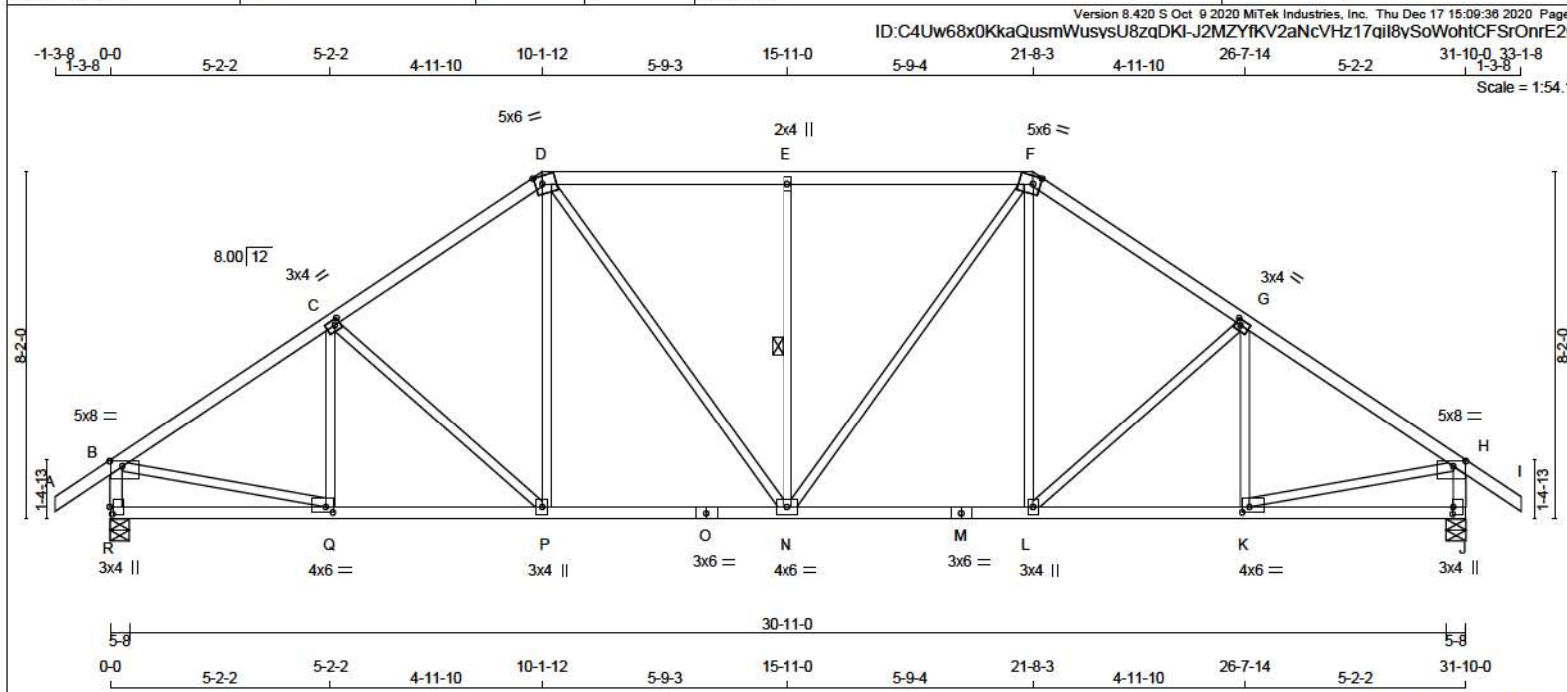
**READ ALL NOTES ON THIS PAGE AND ON
ENGINEERING NOTE PAGE ENP-1. THIS
NOTE PAGE IS AN INTEGRAL PART OF
THIS DRAWING AS IT CONTAINS
SPECIFICATIONS AND CRITERIA USED IN
THE DESIGN OF THIS COMPONENT.**



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





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
R - B	2x4	DRY No.2	SPF
J - H	2x4	DRY No.2	SPF
R - O	2x4	DRY No.2	SPF
O - 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	5.0	8.0	1.50	3.50
C TMVW-t	MT20	3.0	4.0	1.50	1.50
D TTWW-m	MT20	5.0	8.0	2.25	2.00
E TMW+w	MT20	2.0	4.0		
F TTWW-m	MT20	5.0	8.0	2.25	2.00
G TMVW-t	MT20	3.0	4.0	1.50	1.50
H TMVW-p	MT20	5.0	8.0	1.50	3.50
J BMV1+p	MT20	3.0	4.0	2.00	0.25
K BMVW-t	MT20	4.0	6.0	1.50	2.00
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 BS-t	MT20	3.0	6.0		
P BMVW-t	MT20	3.0	4.0		
Q BMVW-t	MT20	4.0	6.0	1.50	2.00
R BMV1+p	MT20	3.0	4.0	2.00	0.75



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.

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	2776	2776	5-8	5-8
R VERT	2776	2776	5-8	5-8
JT HORZ	0	0	5-8	5-8
R HORZ	0	0	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT COMBINED	2047	1204 / 0	334 / 0
R COMBINED	2047	1204 / 0	334 / 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 = 3.47 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF E-N. DBS = 20-0-0. CBF = 110 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

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	
FR-TO		FROM	TO		FR-TO				
A-B	0 / 47	-124.4	-124.4	0.17 (1)	10.00	Q-C	-327 / 52	0.11 (1)	
B-C	-3076 / 0	-124.4	-124.4	0.57 (1)	3.47	C-P	-395 / 0	0.34 (1)	
C-D	-2808 / 0	-124.4	-124.4	0.53 (1)	3.85	P-D	0 / 483	0.11 (2)	
D-E	-2708 / 0	-124.4	-124.4	0.64 (1)	3.50	D-N	0 / 683	0.15 (1)	
E-F	-2708 / 0	-124.4	-124.4	0.64 (1)	3.50	N-E	-876 / 0	0.37 (1)	
F-G	-2808 / 0	-124.4	-124.4	0.53 (1)	3.85	N-F	0 / 683	0.15 (1)	
G-H	-3076 / 0	-124.4	-124.4	0.57 (1)	3.47	L-F	0 / 483	0.11 (2)	
H-I	0 / 47	-124.4	-124.4	0.17 (1)	10.00	L-G	-395 / 0	0.34 (1)	
R-B	-2689 / 0	0.0	0.0	0.28 (1)	5.25	K-G	-327 / 52	0.11 (1)	
J-H	-2689 / 0	0.0	0.0	0.28 (1)	5.25	B-Q	0 / 2648	0.80 (1)	
						K-H	0 / 2648	0.60 (1)	
R-Q	0 / 0	-39.2	-39.2	0.18 (3)	10.00				
Q-P	0 / 2593	-39.2	-39.2	0.54 (1)	10.00				
P-O	0 / 2304	-39.2	-39.2	0.51 (1)	10.00				
O-N	0 / 2304	-39.2	-39.2	0.51 (1)	10.00				
N-M	0 / 2304	-39.2	-39.2	0.51 (1)	10.00				
M-L	0 / 2304	-39.2	-39.2	0.51 (1)	10.00				
L-K	0 / 2593	-39.2	-39.2	0.54 (1)	10.00				
K-J	0 / 0	-39.2	-39.2	0.18 (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 (1.06")
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.22")

CSI: TC=0.84/1.00 (E-F:1) , BC=0.54/1.00 (K-L:1) ,
WB=0.60/1.00 (H-K: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)
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.

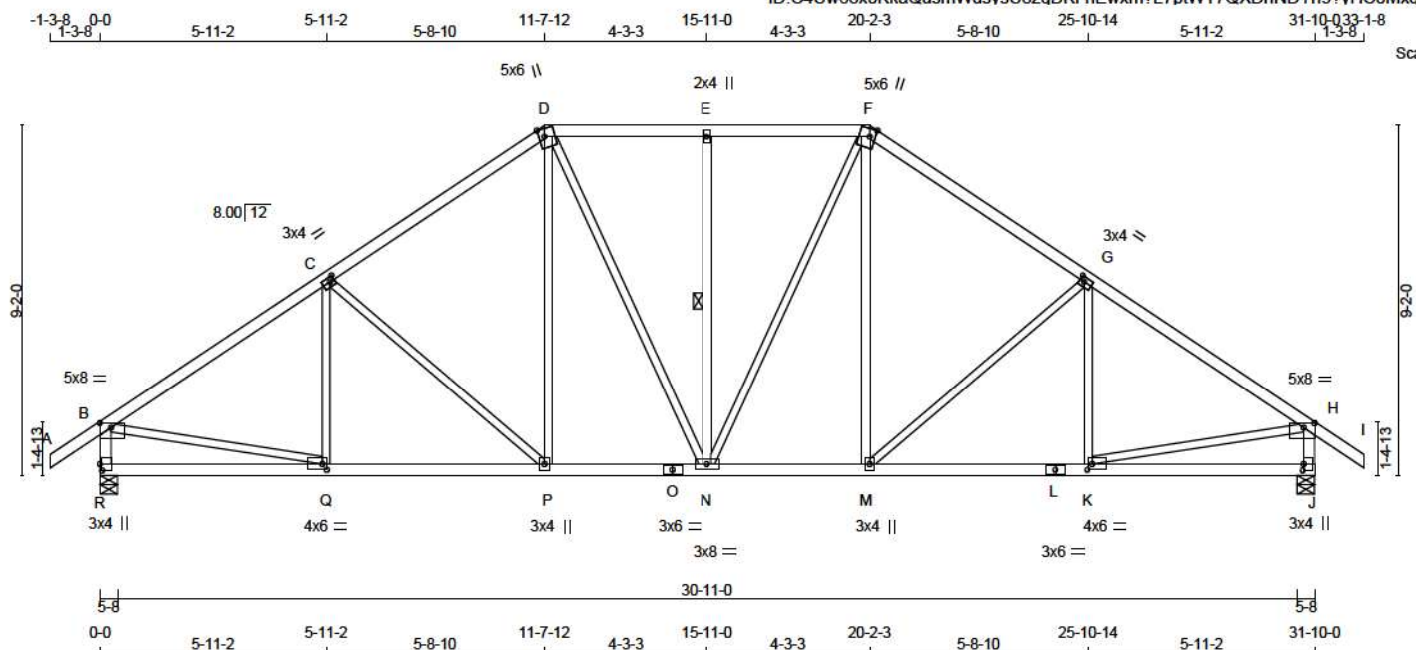
JSI GRIP= 0.80 (R) (INPUT = 0.80)
JSI METAL = 0.76 (O) (INPUT = 1.00)



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Discipline	Reviewer	BCN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			





Scale = 1:60.4

TOTAL WEIGHT = 2 X 149 = 298 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - I	2x4	DRY	No.2
R - B	2x4	DRY	No.2
J - H	2x4	DRY	No.2
R - O	2x4	DRY	No.2
O - L	2x4	DRY	No.2
L - J	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	5.0	8.0	1.50	3.50
C TMVW-t	MT20	3.0	4.0	1.50	1.50
D TTWW+m	MT20	5.0	8.0	Edge	1.75
E TMVW+w	MT20	2.0	4.0		
F TTWW+m	MT20	5.0	8.0	Edge	1.75
G TMVW-t	MT20	3.0	4.0	1.50	1.50
H TMVW-p	MT20	5.0	8.0	1.50	3.50
J BMV1+p	MT20	3.0	4.0	2.00	0.25
K BMVW-t	MT20	4.0	6.0	1.75	1.50
L BS-t	MT20	3.0	6.0		
M BMVW+t	MT20	3.0	4.0		
N BMVW+t	MT20	3.0	8.0		
O BS-t	MT20	3.0	6.0		
P BMVW+t	MT20	3.0	4.0		
Q BMVW-t	MT20	4.0	6.0	1.75	1.50
R BMV1+p	MT20	3.0	4.0	2.00	0.75

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 DOWN	REQD BRG
JT VERT	2776	2776	0	5-8
R HORIZ	2776	2776	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT COMBINED	2047	1204 / 0	334 / 0
R	2047	1204 / 0	334 / 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 = 3.20 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF E-N. DBS = 20-0-0. CBF = 80 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)
FR-TO				FR-TO			
A-B	0 / 47	-124.4	-124.4 0.17 (1)	10.00	Q-C	-219 / 133	0.09 (1)
B-C	-3104 / 0	-124.4	-124.4 0.77 (1)	3.20	C-P	-591 / 0	0.71 (1)
C-D	-2686 / 0	-124.4	-124.4 0.68 (1)	3.51	P-D	0 / 585	0.13 (1)
D-E	-2370 / 0	-124.4	-124.4 0.34 (1)	4.14	D-N	0 / 433	0.10 (1)
E-F	-2370 / 0	-124.4	-124.4 0.34 (1)	4.14	N-E	-837 / 0	0.35 (1)
F-G	-2686 / 0	-124.4	-124.4 0.68 (1)	3.51	N-F	0 / 433	0.10 (1)
G-H	-3104 / 0	-124.4	-124.4 0.77 (1)	3.20	M-F	0 / 585	0.13 (1)
H-I	0 / 47	-124.4	-124.4 0.17 (1)	10.00	M-G	-591 / 0	0.71 (1)
R-B	-2680 / 0	0.0	0.0 0.28 (1)	5.28	K-G	-219 / 133	0.09 (1)
J-H	-2680 / 0	0.0	0.0 0.28 (1)	5.28	B-Q	0 / 2665	0.60 (1)
					K-H	0 / 2665	0.60 (1)
R-Q	0 / 0	-39.2	-39.2 0.27 (3)	10.00			
Q-P	0 / 2822	-39.2	-39.2 0.59 (1)	10.00			
P-O	0 / 2182	-39.2	-39.2 0.46 (1)	10.00			
O-N	0 / 2182	-39.2	-39.2 0.46 (1)	10.00			
N-M	0 / 2182	-39.2	-39.2 0.46 (1)	10.00			
M-L	0 / 2822	-39.2	-39.2 0.59 (1)	10.00			
L-K	0 / 2822	-39.2	-39.2 0.59 (1)	10.00			
K-J	0 / 0	-39.2	-39.2 0.27 (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

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- 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 (1.06")
CALCULATED VERT. DEFL.(LL)= L/999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (1.06")
CALCULATED VERT. DEFL.(TL)= L/999 (0.20")

CSI: TC=0.77/1.00 (G-H:1), BC=0.59/1.00 (K-M:1),

WB=0.71/1.00 (G-M:1), SS=0.29/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI)
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 = 0.82 (L) (INPUT = 1.00)



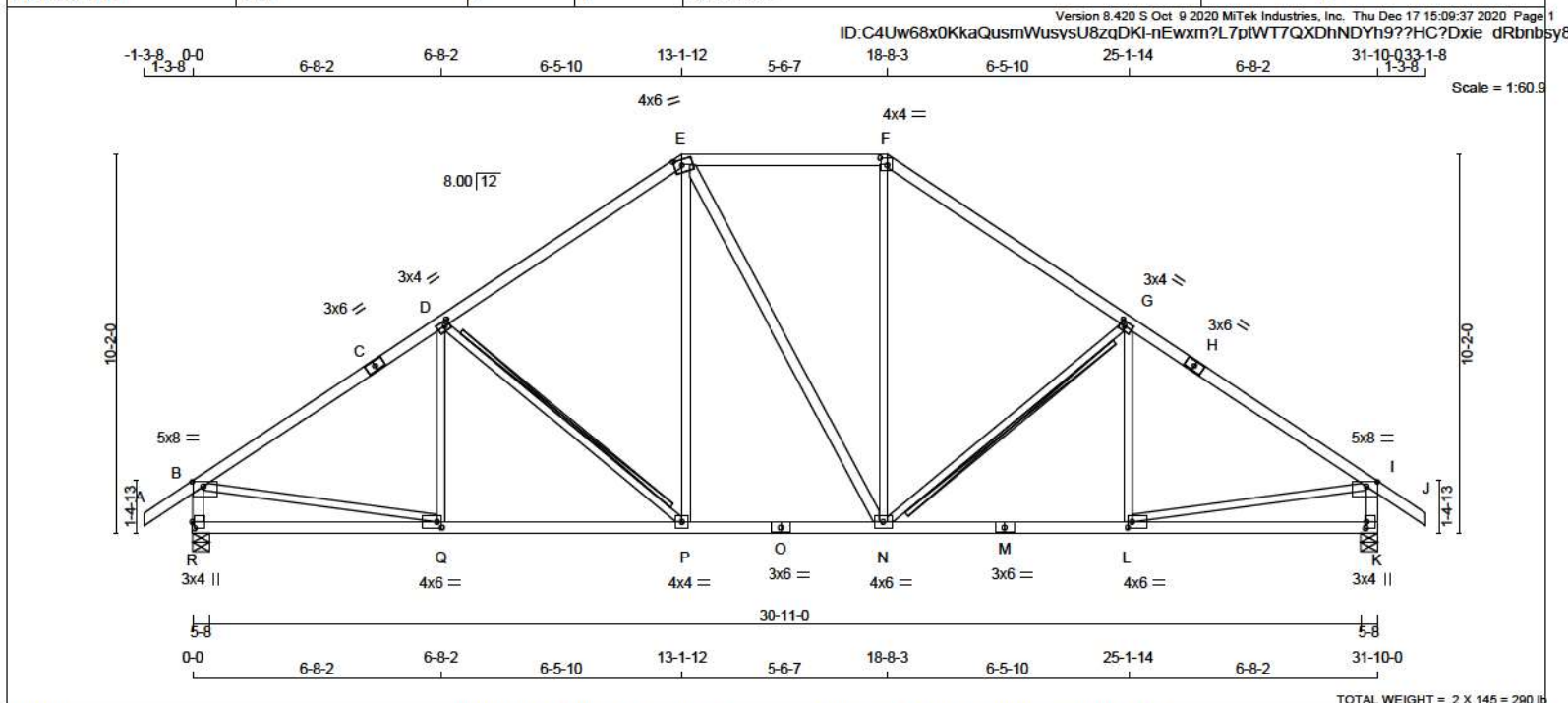
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			





LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW-p	MT20	5.0	8.0	1.50	3.50
C TS-t	MT20	3.0	6.0		
D TMVW-t	MT20	3.0	4.0	1.50	1.50
E TTWW-m	MT20	4.0	6.0	1.75	2.50
F TTW-t	MT20	4.0	4.0	2.25	2.25
G TMVW-t	MT20	3.0	4.0	1.50	1.50
H TS-t	MT20	3.0	6.0		
I TMVW-p	MT20	5.0	8.0	1.50	3.50
K BMV1+p	MT20	3.0	4.0	2.00	0.25
L BMVW-t	MT20	4.0	6.0	1.75	1.50
M BS-t	MT20	3.0	6.0		
N BMVW-t	MT20	4.0	6.0		
O BS-t	MT20	3.0	6.0		
P BMVW-t	MT20	4.0	4.0		
Q BMVW-t	MT20	4.0	6.0	1.75	1.50
R BMV1+p	MT20	3.0	4.0	2.00	0.75

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	0	2776	0	5-8
R 2776	0	2776	0	5-8
K 2776	0	2776	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT COMBINED	1204	0	334
R 2047	1204	0	334
K 2047	1204	0	334

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLINE SPACING = 4.08 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

2x4 DRY SPF No.2 T-BRACE AT D-P, G-N

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)
FR-TO				FR-TO			
A-B	0 / 47	-124.4 -124.4 0.11 (1)	10.00	Q-D	-130 / 199	0.07 (1)	
B-C	-3110 / 0	-124.4 -124.4 0.58 (1)	4.24	D-P	-770 / 0	0.44 (1)	
C-D	-3110 / 0	-124.4 -124.4 0.58 (1)	4.24	P-E	0 / 718	0.16 (1)	
D-E	-2513 / 0	-124.4 -124.4 0.52 (1)	4.66	E-N	0 / 2	0.00 (1)	
E-F	-2051 / 0	-124.4 -124.4 0.55 (1)	4.08	N-F	0 / 720	0.16 (1)	
F-G	-2514 / 0	-124.4 -124.4 0.52 (1)	4.66	N-G	-768 / 0	0.44 (1)	
G-H	-3109 / 0	-124.4 -124.4 0.58 (1)	4.24	L-G	-132 / 197	0.07 (1)	
H-I	-3109 / 0	-124.4 -124.4 0.58 (1)	4.24	B-Q	0 / 2666	0.60 (1)	
I-J	0 / 47	-124.4 -124.4 0.11 (1)	10.00	L-I	0 / 2666	0.60 (1)	
R-B	-2670 / 0	0.0 0.0 0.28 (1)	5.26				
K-I	-2669 / 0	0.0 0.0 0.28 (1)	5.26				
R-Q	0 / 0	-39.2 -39.2 0.34 (3)	10.00				
Q-P	0 / 2632	-39.2 -39.2 0.66 (2)	10.00				
P-O	0 / 2050	-39.2 -39.2 0.48 (1)	10.00				
O-N	0 / 2050	-39.2 -39.2 0.48 (1)	10.00				
N-M	0 / 2632	-39.2 -39.2 0.66 (2)	10.00				
M-L	0 / 2632	-39.2 -39.2 0.66 (2)	10.00				
L-K	0 / 0	-39.2 -39.2 0.34 (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 (1.06")
CALCULATED VERT. DEFL.(LL)= L/999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (1.06")
CALCULATED VERT. DEFL.(TL)= L/999 (0.21")

CSI: TC=0.58/1.00 (B-D:1) , BC=0.66/1.00 (P-Q:2) , WB=0.60/1.00 (B-Q:1) , SSI=0.33/1.00 (G-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (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 (R) (INPUT = 0.90)
JSI METAL= 0.93 (M) (INPUT = 1.00)



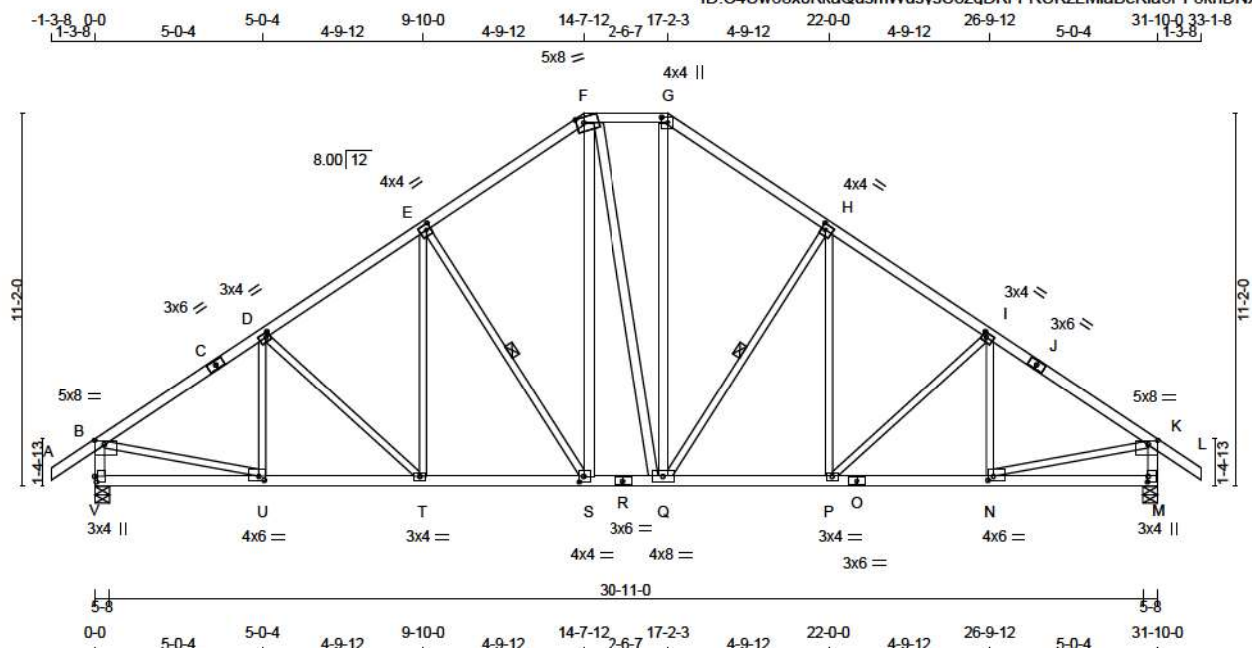
READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			





TOTAL WEIGHT = 2 X 173 = 346 lb

LUMBER				DESCR.	
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
A - C	2x4	DRY	No.2	SPF	
C - F	2x4	DRY	No.2	SPF	
F - G	2x4	DRY	No.2	SPF	
G - J	2x4	DRY	No.2	SPF	
J - L	2x4	DRY	No.2	SPF	
V - B	2x4	DRY	No.2	SPF	
M - K	2x4	DRY	No.2	SPF	
V - R	2x4	DRY	No.2	SPF	
R - O	2x4	DRY	No.2	SPF	
O - M	2x4	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
EXCEPT					
S - F	2x4	DRY	No.2	SPF	
F - Q	2x4	DRY	No.2	SPF	
Q - G	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW-p	MT20	5.0	8.0	1.50	3.50
C TS-t	MT20	3.0	6.0		
D TMWW-t	MT20	3.0	4.0	1.50	1.50
E TMWW-t	MT20	4.0	4.0	2.00	1.50
F TTWW-m	MT20	5.0	8.0	2.00	2.75
G TTW+p	MT20	4.0	4.0	2.00	2.25
H TMWW-t	MT20	4.0	4.0	2.00	1.50
I TMWW-t	MT20	3.0	4.0	1.50	1.50
J TS-t	MT20	3.0	6.0		
K TMVW-p	MT20	5.0	8.0	1.50	3.50
M BMV1+p	MT20	3.0	4.0	2.00	0.25
N BMWW-t	MT20	4.0	6.0	1.50	2.00
O BS-t	MT20	3.0	6.0		
P BMWW-t	MT20	3.0	4.0		
Q BMWW-t	MT20	4.0	8.0		
R BS-t	MT20	3.0	6.0		
S BMWW-t	MT20	4.0	4.0	2.00	1.75
T BMWW-t	MT20	3.0	4.0		
U BMWW-t	MT20	4.0	6.0	1.50	2.00
V BMV1+p	MT20	3.0	4.0	2.00	0.75

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	2776	2776	0	5-8
M VERT	2776	2776	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT COMBINED	1204	0	334
V COMBINED	1204	0	334
M COMBINED	1204	0	334

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

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.

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF E-S, H-Q. DBS = 20-0-0. CBF = 109 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

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)	
FR-TO				FR-TO			
A-B	0 / 47	-124.4	-124.4 0.17 (1)	U-D	-344 / 36	0.11 (1)	
B-C	-3057 / 0	-124.4	-124.4 0.52 (1)	D-T	-279 / 0	0.22 (1)	
C-D	-3057 / 0	-124.4	-124.4 0.52 (1)	T-E	0 / 409	0.09 (2)	
D-E	-2842 / 0	-124.4	-124.4 0.44 (1)	E-S	-870 / 0	0.50 (1)	
E-F	-2306 / 0	-124.4	-124.4 0.41 (1)	S-F	0 / 852	0.14 (1)	
F-G	-1904 / 0	-124.4	-124.4 0.14 (1)	F-Q	0 / 14	0.00 (1)	
G-H	-2310 / 0	-124.4	-124.4 0.41 (1)	Q-G	0 / 868	0.14 (1)	
H-I	-2841 / 0	-124.4	-124.4 0.44 (1)	Q-H	-863 / 0	0.50 (1)	
I-J	-3057 / 0	-124.4	-124.4 0.52 (1)	P-H	0 / 401	0.09 (2)	
J-K	-3057 / 0	-124.4	-124.4 0.52 (1)	P-I	-281 / 0	0.22 (1)	
K-L	0 / 47	-124.4	-124.4 0.17 (1)	N-I	-342 / 37	0.11 (1)	
V-B	-2692 / 0	0.0	0.0 0.28 (1)	B-U	0 / 2628	0.59 (1)	
M-K	-2692 / 0	0.0	0.0 0.28 (1)	N-K	0 / 2629	0.59 (1)	
V-U	0 / 0	-39.2	-39.2 0.17 (3)				
U-T	0 / 2569	-39.2	-39.2 0.51 (1)				
T-S	0 / 2364	-39.2	-39.2 0.48 (1)				
S-R	0 / 1901	-39.2	-39.2 0.41 (1)				
R-Q	0 / 1901	-39.2	-39.2 0.41 (1)				
Q-P	0 / 2363	-39.2	-39.2 0.48 (1)				
P-O	0 / 2570	-39.2	-39.2 0.52 (1)				
O-N	0 / 2570	-39.2	-39.2 0.52 (1)				
N-M	0 / 0	-39.2	-39.2 0.17 (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

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, 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 (1.06")
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")

CSI: TC=0.52/1.00 (I-K:1), BC=0.52/1.00 (N-P:1), WB=0.59/1.00 (K-N:1), SSI=0.24/1.00 (I-K: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= 0.90 (G) (INPUT = 0.90)
JSI METAL = 0.72 (O) (INPUT = 1.00)



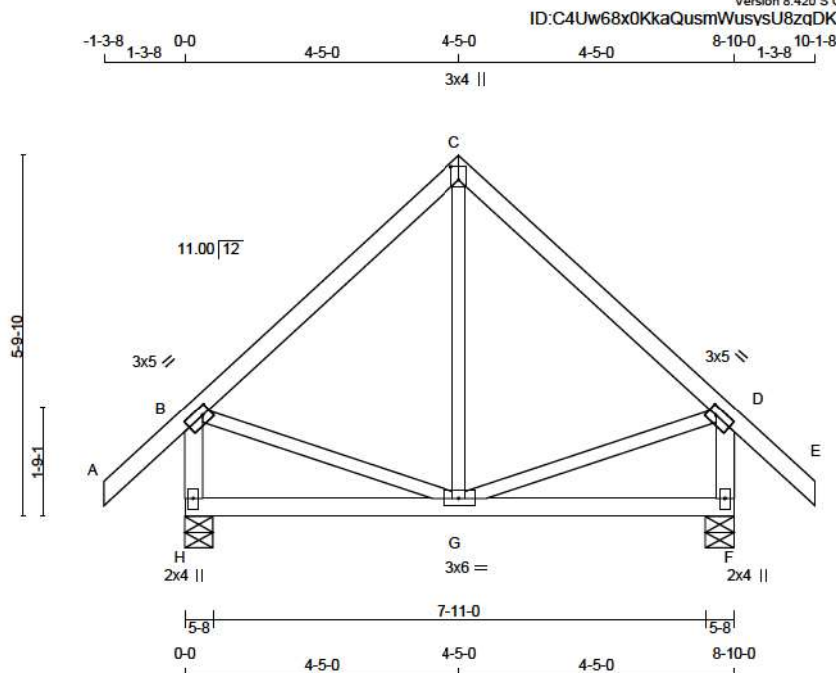
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			





TOTAL WEIGHT = 42 LB

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
A - C	2x4	DRY	No.2		SPF
C - E	2x4	DRY	No.2		SPF
H - B	2x4	DRY	No.2		SPF
F - D	2x4	DRY	No.2		SPF
H - F	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-1	MT20	3.0	5.0	1.50	1.50
C	TTW+p	MT20	3.0	4.0	2.50	1.50
D	TMVW-1	MT20	3.0	5.0	1.50	1.50
F	BMV1+p	MT20	2.0	4.0		
G	BMVW-1	MT20	3.0	6.0		
H	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
H	896	0	896	0
F	896	0	896	0

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
H	654	404 / 0	93 / 0	0 / 0	0 / 0	157 / 0	0 / 0	
F	654	404 / 0	93 / 0	0 / 0	0 / 0	157 / 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)	LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 58	-124.4	-124.4	0.17 (1)	10.00	G-C	0 / 180
B-C	-419 / 0	-124.4	-124.4	0.31 (1)	8.25	B-G	0 / 324
C-D	-419 / 0	-124.4	-124.4	0.31 (1)	8.25	G-D	0 / 324
D-E	0 / 58	-124.4	-124.4	0.17 (1)	10.00		
H-B	-829 / 0	0.0	0.0	0.09 (1)	7.81		
F-D	-829 / 0	0.0	0.0	0.09 (1)	7.81		
H-G	0 / 0	-39.2	-39.2	0.18 (3)	10.00		
G-F	0 / 0	-39.2	-39.2	0.18 (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 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 (0.29")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.29")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.31/1.00 (B-C-1), BC=0.18/1.00 (F-G-3),
WB=0.07/1.00 (B-G-1), SSI=0.16/1.00 (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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.69 (B) (INPUT = 0.90)
JSI METAL = 0.21 (D) (INPUT = 1.00)



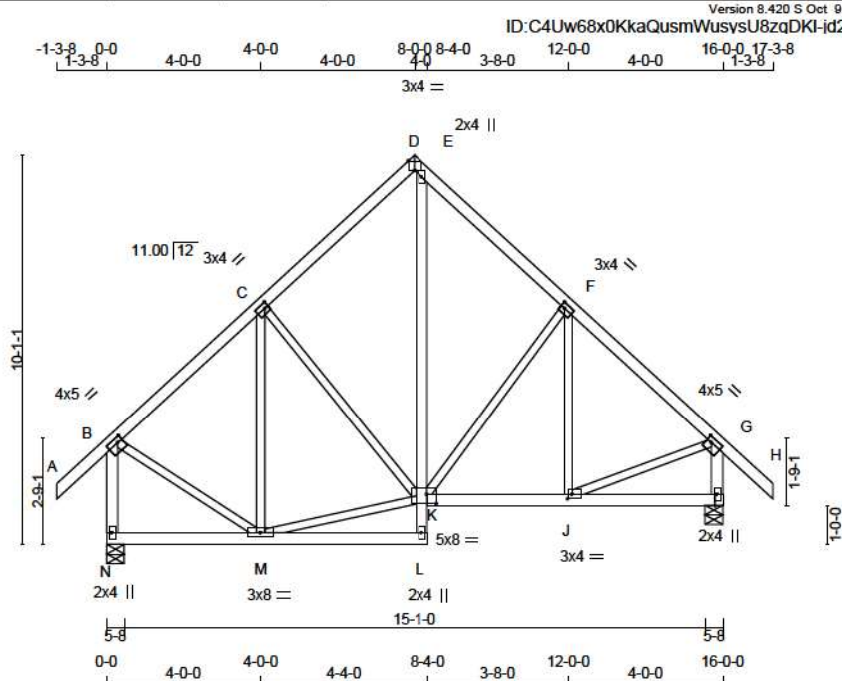
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			





TOTAL WEIGHT = 91 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - H	2x4	DRY	No.2
N - B	2x4	DRY	No.2
I - G	2x4	DRY	No.2
N - L	2x4	DRY	No.2
L - E	2x4	DRY	No.2
K - I	2x4	DRY	No.2

ALL WEBS 2x3 DRY
EXCEPT
DRY: SEASONED LUMBER

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	5.0	1.50	1.50
C	TMWW-t	MT20	3.0	4.0	1.50	1.25
D	TT-p	MT20	3.0	4.0	Edge	2.00
E	TMV+p	MT20	2.0	4.0		
F	TMWW-t	MT20	3.0	4.0	1.50	1.25
G	TMVW-t	MT20	4.0	5.0	1.50	1.50
I	BMV1+p	MT20	2.0	4.0		
J	BMWW-t	MT20	3.0	4.0	1.50	1.50
K	BMVWWW-I	MT20	5.0	8.0	3.00	3.00
L	BMV+p	MT20	2.0	4.0		
M	BMWWW-t	MT20	3.0	8.0		
N	BMV1+o	MT20	2.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT IN-SX	IN-SX
N	1482	0	1482	0	0	5-8 1-10
I	1482	0	1482	0	0	5-8 1-10

UNFACTORED REACTIONS

1ST LCASE MAX/MIN. COMPONENT REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
N	1089	854 / 0	168 / 0	0 / 0	0 / 0	267 / 0	0 / 0
I	1089	854 / 0	168 / 0	0 / 0	0 / 0	267 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.48 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	FACTORED	MAX.	MEMB.	MAX. FACTORED	MAX. CSI (LC)	
	FORCE (LBS)	VERT. LOAD (LBS)			UNBRAC		FORCE (LBS)
FR-TO		FROM TO		FR-TO			
A-B	0 / 58	-124.4 -124.4 0.17 (1)	10.00	M-C	-383 / 5	0.25 (1)	
B-C	-906 / 0	-124.4 -124.4 0.34 (1)	8.01	K-F	-430 / 0	0.31 (1)	
C-D	-837 / 0	-124.4 -124.4 0.34 (1)	6.19	J-F	-112 / 113	0.05 (1)	
D-E	-811 / 0	-124.4 -124.4 0.34 (1)	6.25	B-M	0 / 813	0.18 (1)	
E-F	-887 / 0	-124.4 -124.4 0.41 (1)	5.91	J-G	0 / 892	0.20 (1)	
F-G	-1093 / 0	-124.4 -124.4 0.42 (1)	5.46	M-K	0 / 690	0.16 (1)	
G-H	0 / 58	-124.4 -124.4 0.17 (1)	10.00	C-K	-169 / 0	0.13 (1)	
N-B	-1422 / 0	0.0 0.0 0.21 (1)	6.84				
I-G	-1419 / 0	0.0 0.0 0.15 (1)	6.84				
N-M	0 / 0	-39.2 -39.2 0.15 (3)	10.00				
M-L	0 / 24	-39.2 -39.2 0.15 (3)	10.00				
L-K	0 / 81	0.0 0.0 0.04 (1)	10.00				
K-E	0 / 757	0.0 0.0 0.19 (1)	10.00				
K-J	0 / 841	-39.2 -39.2 0.23 (2)	10.00				
J-I	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

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 (0.53")
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.53")
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.07")

CSI: TC=0.42/1.00 (F-G:1), BC=0.23/1.00 (J-K:2),
WB=0.31/1.00 (F-K:1), SSI=0.51/1.00 (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

	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 (J) (INPUT = 0.90)
JSI METAL= 0.39 (G) (INPUT = 1.00)



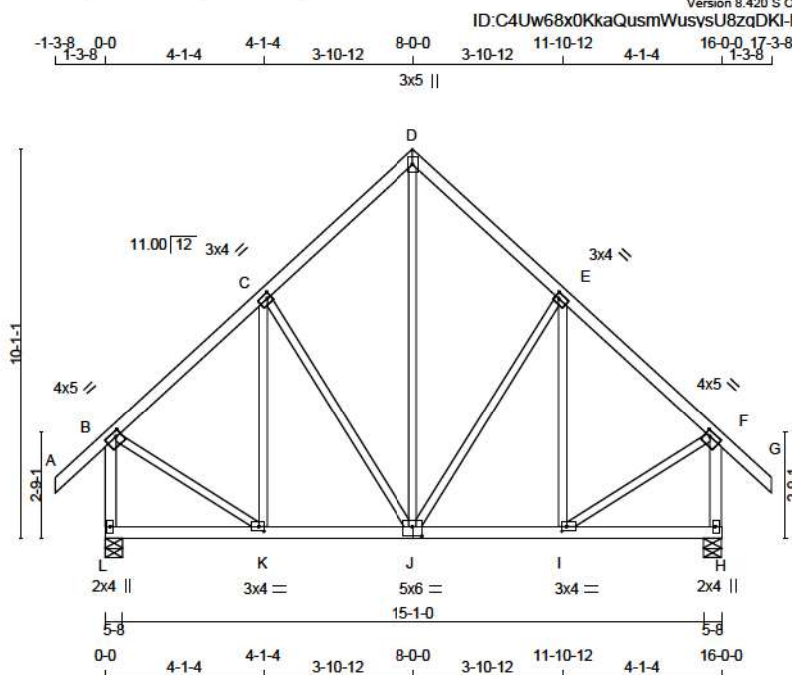
**READ ALL NOTES ON THIS PAGE AND ON
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SPECIFICATIONS AND CRITERIA USED IN
THE DESIGN OF THIS COMPONENT.**



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





Scale = 1:59.8

TOTAL WEIGHT = 2 X 89 = 178 lb

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
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 - J	2x4	DRY	No.2		SPF
J - H	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-1	MT20	4.0	5.0	1.50 1.50
C	TMVW-1	MT20	3.0	4.0	1.50 1.25
D	TTW+p	MT20	3.0	5.0	
E	TMVW-1	MT20	3.0	4.0	1.50 1.25
F	TMVW-1	MT20	4.0	5.0	1.50 1.50
H	BMV1+p	MT20	2.0	4.0	
I	BMVW-1	MT20	3.0	4.0	1.50 1.50
J	BSVW-1	MT20	5.0	6.0	3.00 3.00
K	BMVW-1	MT20	3.0	4.0	1.50 1.50
L	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
L	1482	0	1482	0
H	1482	0	1482	0

UNFACTORED REACTIONS

1ST CASE	MAX	MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
L	1089	654 / 0	168 / 0
H	1089	654 / 0	168 / 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 = 6.15 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 58	-124.4	-124.4	0.17 (1)	10.00	J-D	0 / 623
B-C	-906 / 0	-124.4	-124.4	0.26 (1)	8.15	J-E	-299 / 0
C-D	-770 / 0	-124.4	-124.4	0.26 (1)	8.25	I-E	-218 / 72
D-E	-770 / 0	-124.4	-124.4	0.26 (1)	8.25	C-J	-299 / 0
E-F	-906 / 0	-124.4	-124.4	0.26 (1)	8.15	K-C	-218 / 72
F-G	0 / 58	-124.4	-124.4	0.17 (1)	10.00	B-K	0 / 808
L-B	-1419 / 0	0.0	0.0	0.21 (1)	8.85	I-F	0 / 808
H-F	-1419 / 0	0.0	0.0	0.21 (1)	8.85		
L-K	0 / 0	-39.2	-39.2	0.14 (3)	10.00		
K-J	0 / 697	-39.2	-39.2	0.22 (2)	10.00		
J-I	0 / 697	-39.2	-39.2	0.22 (2)	10.00		
I-H	0 / 0	-39.2	-39.2	0.14 (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

(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) = $L/360$ (0.53")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.02")
ALLOWABLE DEFL.(TL) = $L/360$ (0.53")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.04")

CSI: TC=0.26/1.00 (B-C-1), BC=0.22/1.00 (I-J-2),
WB=0.31/1.00 (E-J-1), SSI=0.18/1.00 (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	MAX MIN
MT20	650	371	1747

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (K) (INPUT = 0.90)
JSI METAL = 0.34 (F) (INPUT = 1.00)



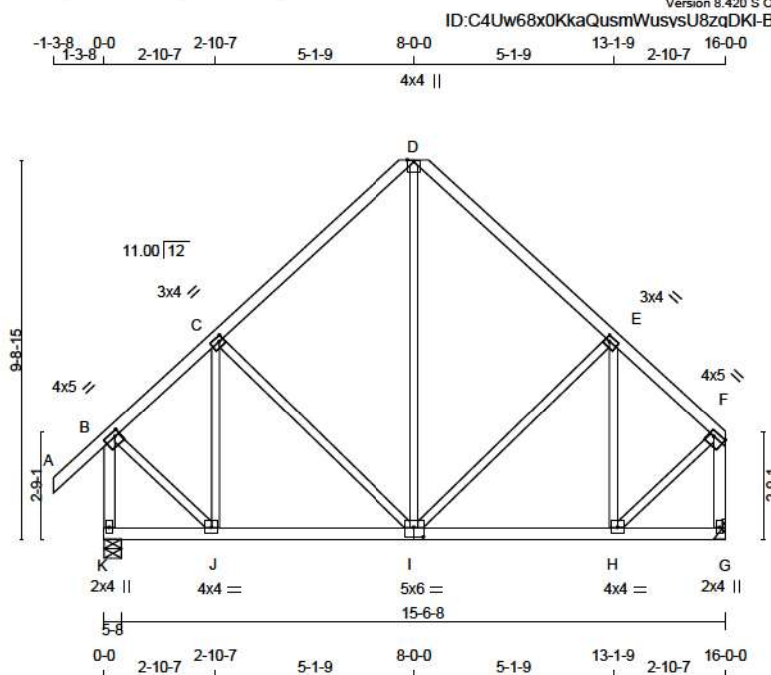
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			





TOTAL WEIGHT = 83 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
K - B	2x4	DRY	No.2	SPF
G - F	2x4	DRY	No.2	SPF
K - I	2x4	DRY	No.2	SPF
I - 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-I	MT20	4.0	5.0	1.50	1.50
C	TMVW-I	MT20	3.0	4.0	1.50	1.25
D	TMVW-I	MT20	4.0	4.0	Edge	
E	TMVW-I	MT20	3.0	4.0	1.50	1.25
F	TMVW-I	MT20	4.0	5.0	1.50	Edge
G	BMV1+P	MT20	2.0	4.0		
H	BMVW-I	MT20	4.0	4.0		
I	BSVW-I	MT20	5.0	6.0	3.00	3.00
J	BMVW-I	MT20	4.0	4.0		
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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
K	1482	0	1482	0
G	1309	0	1309	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX	MIN	COMPONENT REACTIONS
	COMBINED	SNOW	LIVE	PERM.LIVE
K	1089	654 / 0	168 / 0	0 / 0
G	970	557 / 0	168 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.16 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED HORZ. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED HORZ. LOAD (LC)
FR-TO				FR-TO			
A-B	0 / 58	-124.4	-124.4 0.17 (1)	J-C	-373 / 17	0.18 (1)	0.18 (1)
B-C	-863 / 0	-124.4	-124.4 0.32 (1)	I-D	0 / 464	0.10 (1)	0.10 (1)
C-D	-768 / 0	-124.4	-124.4 0.39 (1)	H-E	-373 / 17	0.16 (1)	0.16 (1)
D-E	-768 / 0	-124.4	-124.4 0.39 (1)	C-I	-211 / 0	0.21 (1)	0.21 (1)
E-F	-863 / 0	-124.4	-124.4 0.32 (1)	I-E	-212 / 0	0.21 (1)	0.21 (1)
K-B	-1456 / 0	0.0	0.0 0.21 (1)	B-J	0 / 899	0.20 (1)	0.20 (1)
G-F	-1284 / 0	0.0	0.0 0.19 (1)	H-F	0 / 899	0.20 (1)	0.20 (1)
K-J	0 / 0	-39.2	-39.2 0.18 (3)				
J-I	0 / 888	-39.2	-39.2 0.25 (2)				
I-H	0 / 888	-39.2	-39.2 0.25 (2)				
H-G	0 / 0	-39.2	-39.2 0.18 (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 (0.53")
CALCULATED VERT. DEFL. (LL) = L/999 (0.04")
ALLOWABLE DEFL. (TL) = L/360 (0.53")
CALCULATED VERT. DEFL. (TL) = L/999 (0.06")

CSI: TC=0.39/1.00 (D-E-1), BC=0.25/1.00 (H-I-2),
WB=0.21/1.00 (E-I-1), SSI=0.22/1.00 (C-D-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
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 (J) (INPUT = 0.90)
JSI METAL = 0.31 (F) (INPUT = 1.00)



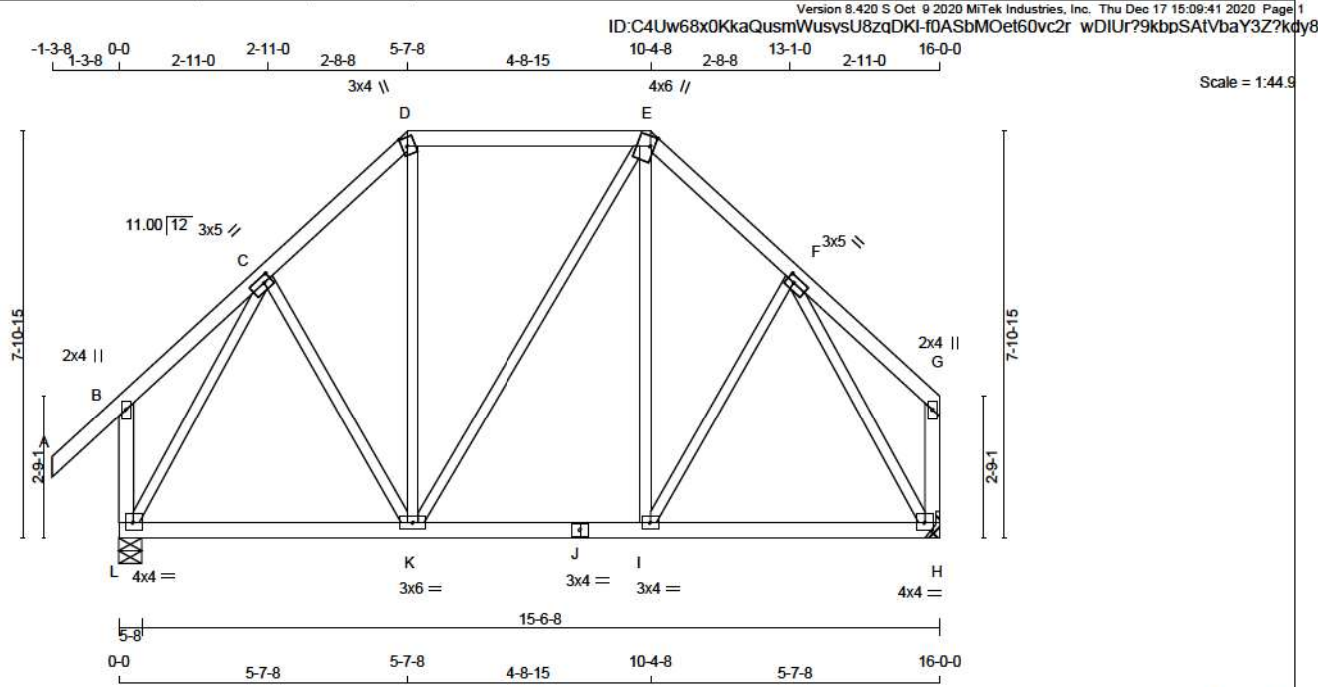
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			





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 - G	2x4	DRY No.2	SPF
L - B	2x4	DRY No.2	SPF
H - G	2x4	DRY No.2	SPF
L - J	2x4	DRY No.2	SPF
J - H	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 TMV+p	MT20	2.0	4.0		
C TMWW-l	MT20	3.0	5.0	1.50	1.75
D TTW+m	MT20	3.0	4.0	2.00	1.25
E TTWW+m	MT20	4.0	6.0	2.25	1.00
F TMWW-l	MT20	3.0	5.0	1.50	1.75
G TMV+p	MT20	2.0	4.0		
H BMVW1-l	MT20	4.0	4.0		
I BMWW-l	MT20	3.0	4.0		
J BS-l	MT20	3.0	4.0		
K BMWWW-l	MT20	3.0	6.0		
L BMVW1-l	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	REQD BRG
JT VERT	DOWN	UPLIFT	IN-SX
L 1482	0	0	5-8
H 1309	0	0	MECHANICAL

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

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT COMBINED	SNOW	LIVE	PERM.LIVE
L 1089	654 / 0	168 / 0	0 / 0
H 970	557 / 0	168 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO			FR-TO			
A-B	0 / 58	-124.4	-124.4	0.17 (1)	10.00	C-K	0 / 100	0.02 (3)
B-C	0 / 25	-124.4	-124.4	0.15 (1)	10.00	K-D	0 / 201	0.05 (3)
C-D	-901 / 0	-124.4	-124.4	0.12 (1)	6.25	K-E	0 / 0	0.00 (1)
D-E	-644 / 0	-124.4	-124.4	0.36 (1)	6.25	L-E	0 / 200	0.05 (3)
E-F	-900 / 0	-124.4	-124.4	0.12 (1)	6.25	I-F	0 / 99	0.02 (3)
F-G	0 / 25	-124.4	-124.4	0.15 (1)	10.00	L-C	-1237 / 0	0.67 (1)
L-B	-312 / 0	0.0	0.0	0.05 (1)	7.81	F-H	-1236 / 0	0.67 (1)
H-G	-139 / 0	0.0	0.0	0.02 (1)	7.81			
L-K	0 / 610	-39.2	-39.2	0.27 (2)	10.00			
K-J	0 / 644	-39.2	-39.2	0.27 (2)	10.00			
J-I	0 / 644	-39.2	-39.2	0.27 (2)	10.00			
I-H	0 / 609	-39.2	-39.2	0.28 (2)	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 (0.53")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.53")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.08")

CSI: TC=0.36/1.00 (D-E-1) , BC=0.28/1.00 (H-I-2) ,
WB=0.67/1.00 (C-L-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 (PSI)	SECTION (PLI)	MAX MIN	MAX MIN	MAX MIN
MT20	650	371	1747	788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (C) (INPUT = 0.90)
JSI METAL= 0.33 (C) (INPUT = 1.00)



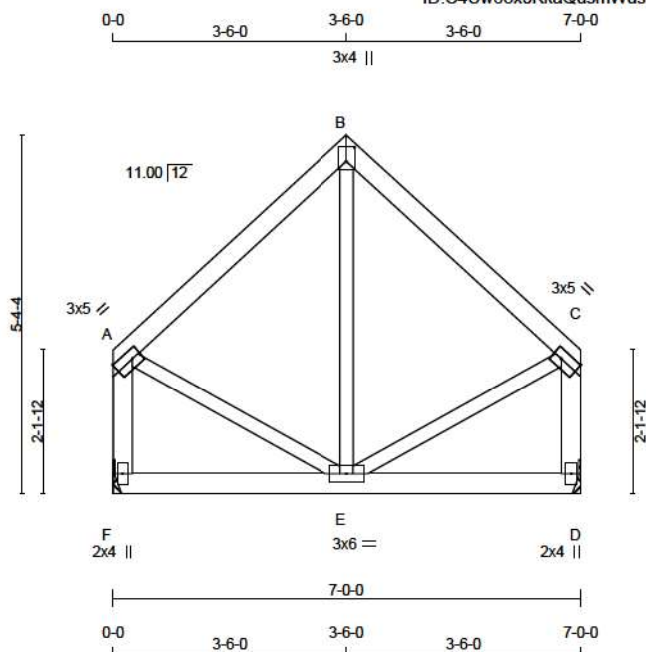
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			





Scale = 1:34.4

TOTAL WEIGHT = 2 X 33 = 66 lb

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
A - B	2x4	DRY	No.2		SPF
B - C	2x4	DRY	No.2		SPF
F - A	2x4	DRY	No.2		SPF
D - C	2x4	DRY	No.2		SPF
F - D	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
A	TMVW-t	MT20	3.0	5.0	1.50	Edge
B	TTW+p	MT20	3.0	4.0	2.50	1.50
C	TMVW-t	MT20	3.0	5.0	1.50	Edge
D	BMV1+p	MT20	2.0	4.0		
E	BMVW-t	MT20	3.0	6.0		
F	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
F	573	0	573	0
D	573	0	573	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	424	244 / 0	74 / 0	0 / 0	0 / 0	107 / 0	0 / 0
D	424	244 / 0	74 / 0	0 / 0	0 / 0	107 / 0	0 / 0

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)	FACTORED LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	-286 / 0	-124.4	-124.4 0.20 (1)	E-B	-49 / 113	0.03 (3)	
B-C	-286 / 0	-124.4	-124.4 0.20 (1)	A-E	0 / 237	0.05 (1)	
F-A	-520 / 0	0.0	0.0 0.06 (1)	E-C	0 / 237	0.05 (1)	
D-C	-520 / 0	0.0	0.0 0.06 (1)				
F-E	0 / 0	-39.2	-39.2 0.11 (3)				
E-D	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 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 (0.23")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.23")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.20/1.00 (A-B:1), BC=0.11/1.00 (E-F:3),
WB=0.05/1.00 (C-E:1), SSI=0.13/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.43 (A) (INPUT = 0.90)
JSI METAL = 0.12 (C) (INPUT = 1.00)



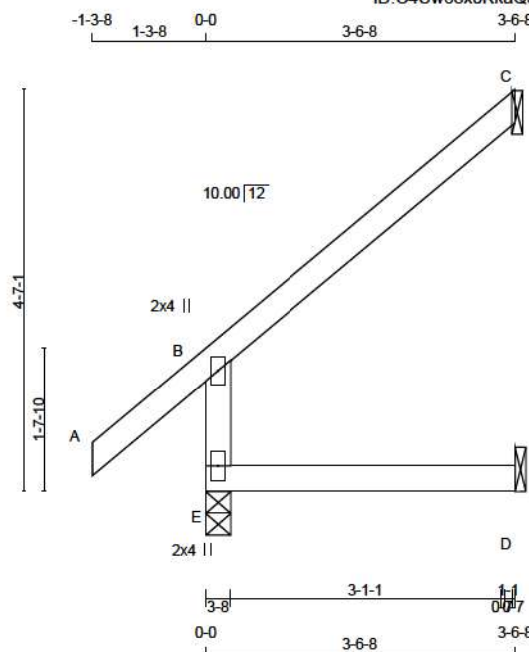
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			





Scale = 1:26.3

TOTAL WEIGHT = 14 X 13 = 180 lb

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

DRY: SEASONED LUMBER.

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
C	165	0	165	0
E	525	0	525	0
D	61	0	78	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
C	114	93 / 0	0 / 0	0 / 0	0 / 0	21 / 0	0 / 0
E	378	250 / 0	42 / 0	0 / 0	0 / 0	86 / 0	0 / 0
D	56	0 / 0	33 / 0	0 / 0	0 / 0	23 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) C, 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 (PLF)	FACTORED HORZ. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED HORZ. LOAD (LC)
FR-TO				FROM-TO			
A-B	0 / 55	-124.4	-124.4 0.18 (5)	10.00			
B-C	-35 / 0	-124.4	-124.4 0.28 (1)	6.25			
E-B	-447 / 0	0.0	0.0 0.06 (3)	7.81			
E-D	0 / 0	-39.2	-39.2 0.09 (3)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

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

CSI: TC=0.26/1.00 (B-C-1), BC=0.09/1.00 (D-E-3),
WB=0.00/1.00 (n/a-0), SSI=0.18/1.00 (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

AUTOSOLVE RIGHT HEEL ONLY

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= 0.31 (B) (INPUT = 0.90)
JSI METAL= 0.24 (B) (INPUT = 1.00)



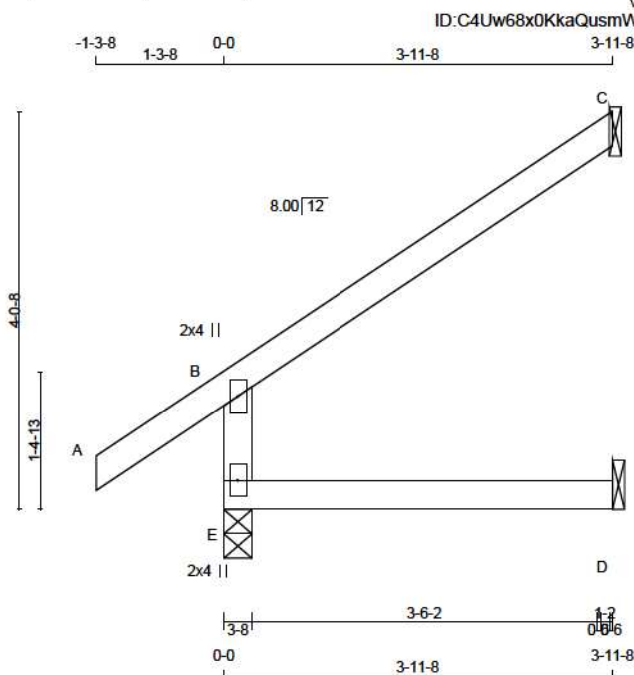
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			





Scale = 1:23.4

TOTAL WEIGHT = 6 X 13 = 78 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
E - B	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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
C	185	0	185	0
E	567	0	567	0
D	67	0	85	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE	PERM. LIVE
C	127	103 / 0	0 / 0	0 / 0
E	409	268 / 0	47 / 0	0 / 0
D	61	0 / 0	36 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) C, 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 (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO				FROM-TO			
A-B	0 / 47	-124.4	-124.4	0.18 (5)	10.00		
B-C	-34 / 0	-124.4	-124.4	0.33 (1)	6.25		
E-B	-478 / 0	0.0	0.0	0.08 (3)	7.81		
E-D	0 / 0	-39.2	-39.2	0.11 (3)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

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

CSI: TC=0.33/1.00 (B-C-1), BC=0.11/1.00 (D-E-3),
WB=0.00/1.00 (n/a-0), SSI=0.20/1.00 (B-C-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI)
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= 0.29 (B) (INPUT = 0.90)
JSI METAL= 0.24 (B) (INPUT = 1.00)

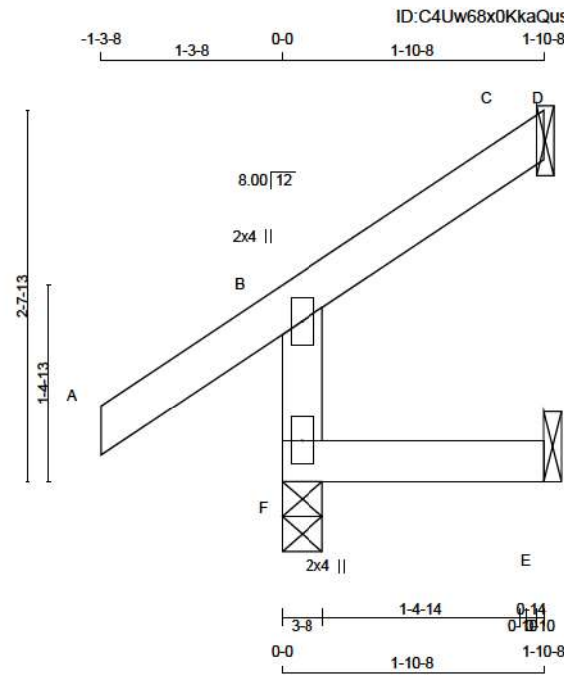


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			



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

DRY: SEASONED LUMBER.

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	HORZ	BRG	UPLIFT	BRG	UPLIFT
F	383	0	383	0	0	3-8	1-8	1-8	1-8
E	23	0	42	0	-6	1-8	1-8	1-8	1-8
C	61	0	61	0	-31	1-8	1-8	1-8	1-8

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

PROVIDE ANCHORAGE AT BEARING JOINT E FOR 150 LBS. FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS. FACTORED UPLIFT

UNFACTORED REACTIONS		MAX / MIN COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
F	271	194 / 0	20 / 0	0 / 0	0 / 0	58 / 0	0 / 0	
E	24	0 / -10	18 / 0	0 / 0	0 / 0	11 / 0	0 / 0	
C	43	31 / -26	1 / 0	0 / 0	0 / 0	11 / 0	0 / 0	

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 47	-124.4 -124.4	0.17 (1)	10.00			
B-C	-29 / 0	-124.4 -124.4	0.13 (1)	6.25			
C-D	-1 / 0	-20.0 -20.0	0.00 (4)	10.00			
F-B	-332 / 0	0.0 0.0	0.05 (5)	7.81			
F-E	0 / 0	-39.2 -39.2	0.05 (5)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

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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- TPIC 2014

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.17/1.00 (A-B:1) , BC=0.05/1.00 (E-F:5) ,
WB=0.00/1.00 (n/a:0) , SSI=0.11/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.20 (B) (INPUT = 0.00)
JSI METAL= 0.17 (B) (INPUT = 1.00)



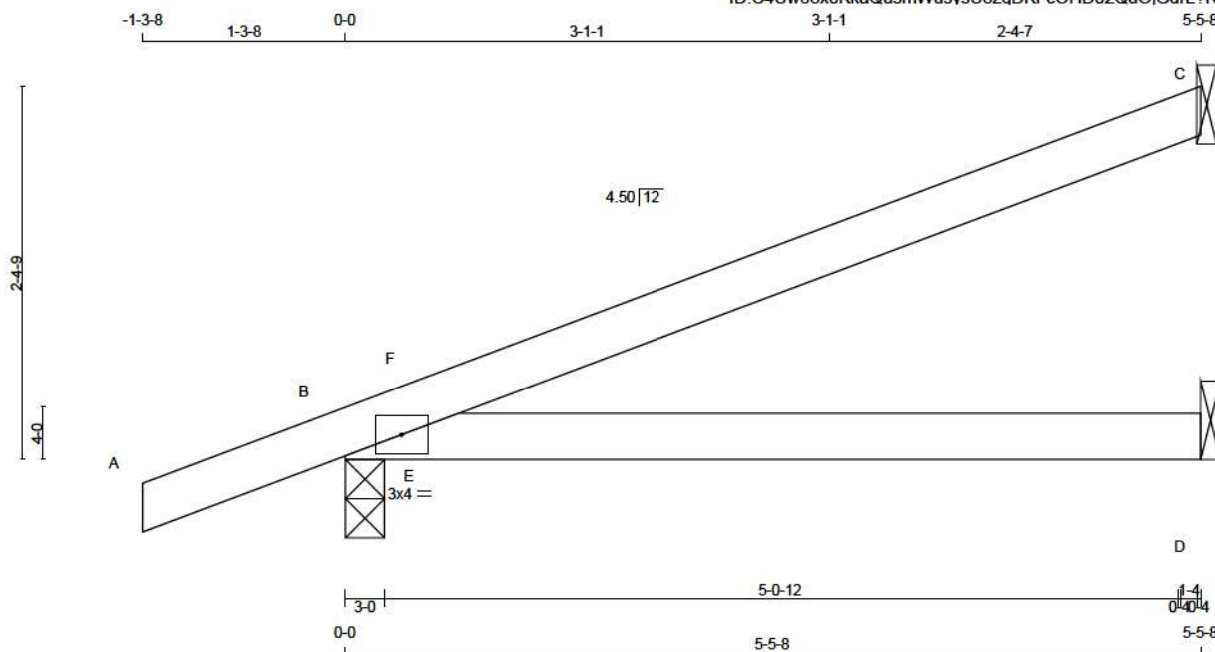
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			





TOTAL WEIGHT = $5 \times 15 = 73$ lb

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR.
A - 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	

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

BEARINGS

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT IN-SX	IN-SX
JT						
C	302	0	302	0	0	1-8
B	814	0	814	0	0	3-0
D	144	0	154	0	0	1-8

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

UNFACTORED REACTIONS

MAX/MIN COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
C	211	160 / 0	8 / 0	0 / 0	0 / 0	43 / 0	0 / 0
B	448	283 / 0	57 / 0	0 / 0	0 / 0	105 / 0	0 / 0
D	119	30 / 0	49 / 0	0 / 0	0 / 0	41 / 0	0 / 0

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

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 CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO		LENGTH-TO	FR-TO		
A - B	0 / 28	-124.4	-124.4	0.16 (1)	10.00	E - F	-376 / 114
B - F	-60 / 13	-124.4	-124.4	0.13 (3)	6.25		
F - C	-1 / 8	-124.4	-124.4	0.50 (1)	10.00		
B - E	0 / 0	-39.2	-39.2	0.32 (1)	10.00		
E - D	0 / 0	-39.2	-39.2	0.36 (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 086-14
- TPIC 2014

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 736 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 425 (0.15")

CSI: TC=0.50/1.00 (C-F:1), BC=0.36/1.00 (D-E:1),
WB=0.00/1.00 (E-F:1), SSI=0.35/1.00 (B-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					
	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= 0.39 (B) (INPUT = 0.80)
JSI METAL= 0.09 (B) (INPUT = 1.00)



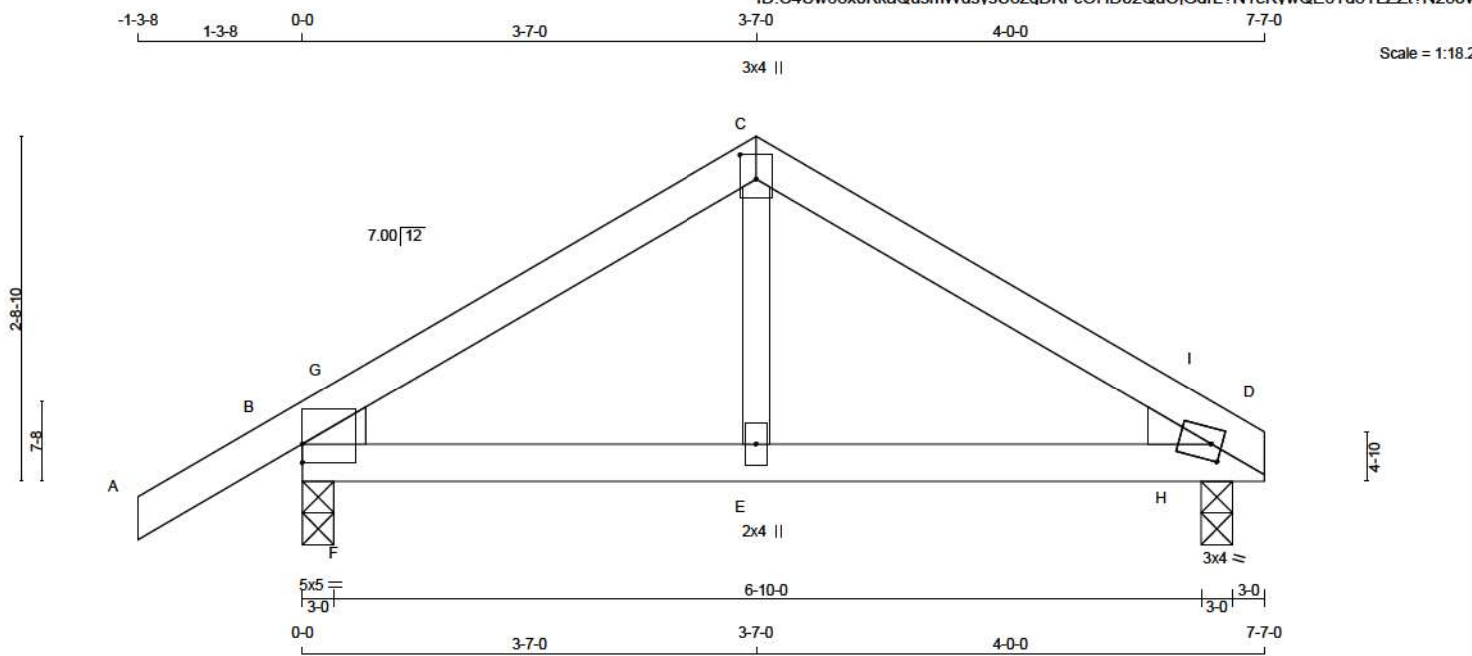
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-0
Sewage System			
Zoning			





Scale = 1:18.2

TOTAL WEIGHT = 3 X 24 = 71 lb

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
A - C	2x4	DRY	No.2		SPF
C - D	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	TMBH1-I	MT20	5.0	5.0	1.75 1.50
C	TTW+p	MT20	3.0	4.0	2.25 1.50
D	TMBH1-m	MT20	3.0	4.0	1.50 1.00
E	BMW+w	MT20	2.0	4.0	

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	HORZ	BRG	UPLIFT IN-SX	BRG	HEEL
B	790	0	790	0	0	3-0	1-8	2x4 L	
D	621	0	621	0	0	3-0	1-8	2x4 R	

UNFACTORED REACTIONS		1ST LCASE		MAX/MIN COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
B	576	359 / 0	80 / 0	0 / 0	138 / 0
D	460	264 / 0	80 / 0	0 / 0	116 / 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)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO	LENGTH
A-B	0 / 28	-124.4 -124.4 0.16 (1)	10.00
B-G	-696 / 0	-124.4 -124.4 0.11 (1)	8.25
G-C	-633 / 0	-124.4 -124.4 0.14 (1)	8.25
C-I	-618 / 0	-124.4 -124.4 0.21 (1)	8.25
I-D	-636 / 0	-124.4 -124.4 0.03 (3)	6.25
B-F	0 / 533	-39.2 -39.2 0.14 (1)	10.00
F-E	0 / 533	-39.2 -39.2 0.23 (1)	10.00
E-H	0 / 533	-39.2 -39.2 0.29 (1)	10.00
H-D	0 / 533	-39.2 -39.2 0.29 (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 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 (0.25")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.25")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.21/1.00 (C-I-1), BC=0.29/1.00 (D-H-1),
WB=0.06/1.00 (C-E-2), SSI=0.18/1.00 (D-H-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (PSI)	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= 0.80 (B) (INPUT = 0.90)
JSI METAL= 0.23 (D) (INPUT = 1.00)



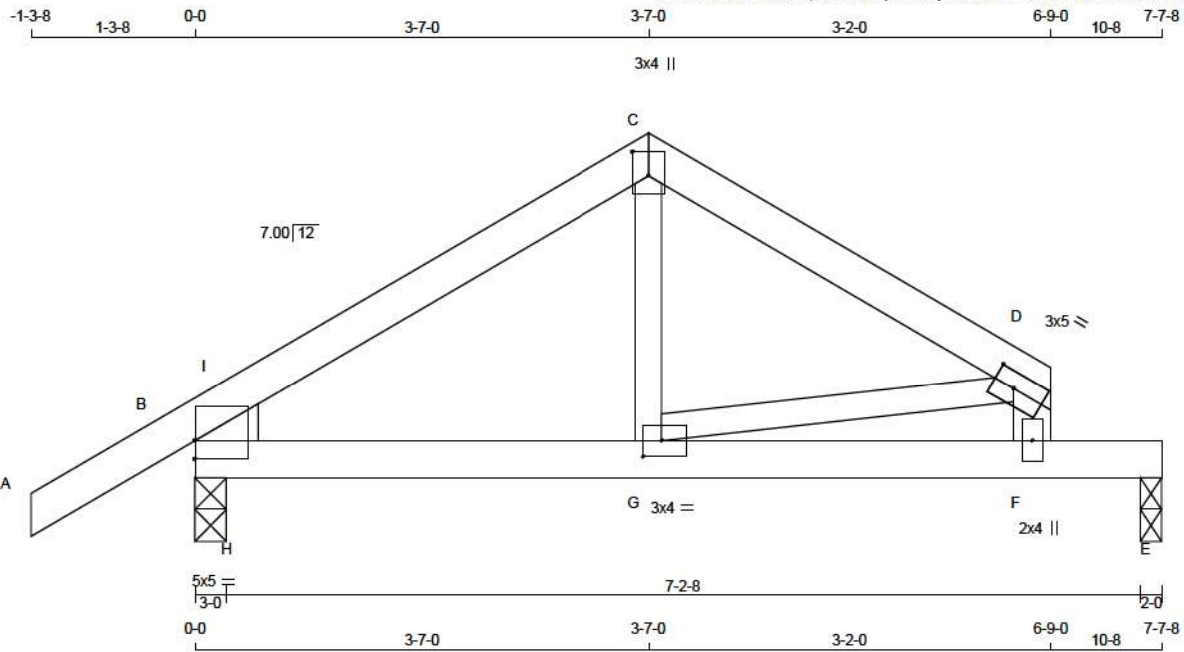
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			





Scale = 1:18.2

TOTAL WEIGHT = 2 X 25 = 49 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B TMBH1-I	MT20	5.0	5.0	1.75	
C TTW+p	MT20	3.0	4.0	2.25	1.50
D TMWW-I	MT20	3.0	5.0	1.50	2.00
F BMWW+w	MT20	2.0	4.0		
G BMWW-I	MT20	3.0	4.0	1.50	1.75

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQ'D	HEEL	
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG	WEDGE	
B	794	0	794	0	3-0	1-8	2x4 L
E	624	0	624	0	2-0	1-8	

UNFACTORED REACTIONS		1ST LCASE	MAX/MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
B	579	360 / 0	80 / 0	0 / 0	0 / 0	139 / 0	0 / 0	
E	482	265 / 0	80 / 0	0 / 0	0 / 0	117 / 0	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 = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO	LENGTH
A-B	0 / 28	-124.4 -124.4	0.16 (1)
B-I	-709 / 0	-124.4 -124.4	0.18 (1)
I-C	-678 / 0	-124.4 -124.4	0.18 (1)
C-D	-656 / 0	-124.4 -124.4	0.20 (1)
B-H	0 / 567	-39.2 -39.2	0.16 (1)
H-G	0 / 567	-39.2 -39.2	0.33 (1)
G-F	0 / 0	-39.2 -39.2	0.75 (1)
F-E	0 / 0	-163.7 -163.7	0.75 (1)

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) = $L/360$ (0.25")
CALCULATED VERT. DEFL. (LL) = $L/988$ (0.09")
ALLOWABLE DEFL. (TL) = $L/360$ (0.25")
CALCULATED VERT. DEFL. (TL) = $L/582$ (0.16")

CSI: TC=0.20/1.00 (C-D-1), BC=0.75/1.00 (F-G-1),
WB=0.13/1.00 (D-G-1), SSI=0.49/1.00 (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= 0.84 (B) (INPUT = 0.90)
JSI METAL = 0.21 (D) (INPUT = 1.00)



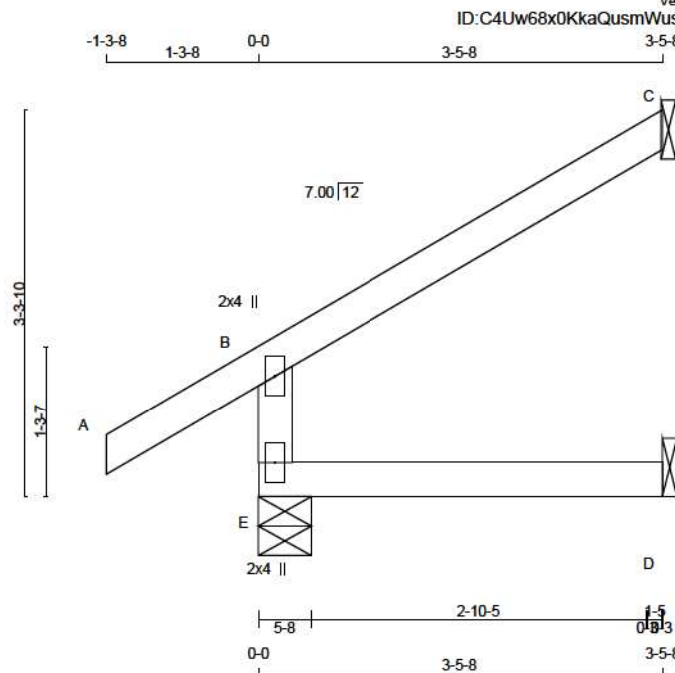
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			





Scale = 1:19.7

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

DRY: SEASONED LUMBER.

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT IN-SX
C	162	0	162	0	1-8
E	516	0	516	0	5-8
D	59	0	74	0	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
C	111	90 / 0	0 / 0	0 / 0	21 / 0
E	372	245 / 0	41 / 0	0 / 0	85 / 0
D	53	0 / 0	31 / 0	0 / 0	22 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) C, 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)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORZ. LOAD (PLF)
FR-TO			
A-B	0 / 43	-124.4 -124.4 0.18 (5)	10.00
B-C	-27 / 0	-124.4 -124.4 0.25 (1)	6.25
E-B	-439 / 0	0.0 0.0 0.06 (3)	7.81
E-D	0 / 0	-39.2 -39.2 0.09 (3)	10.00

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

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

CSI: TC=0.25/1.00 (B-C-1), BC=0.09/1.00 (D-E-3),
WB=0.00/1.00 (n/a-0), SSI=0.18/1.00 (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

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.25 (B) (INPUT = 0.00)
JSI METAL= 0.20 (B) (INPUT = 1.00)



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
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)

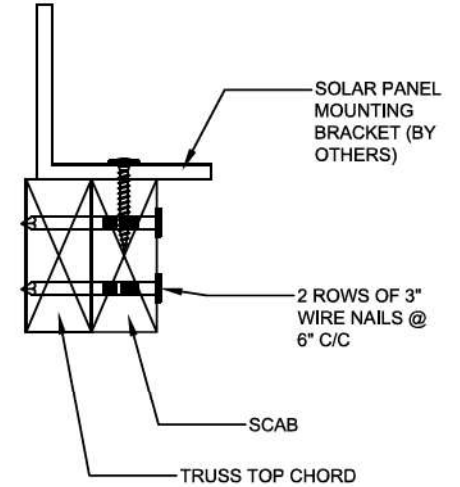
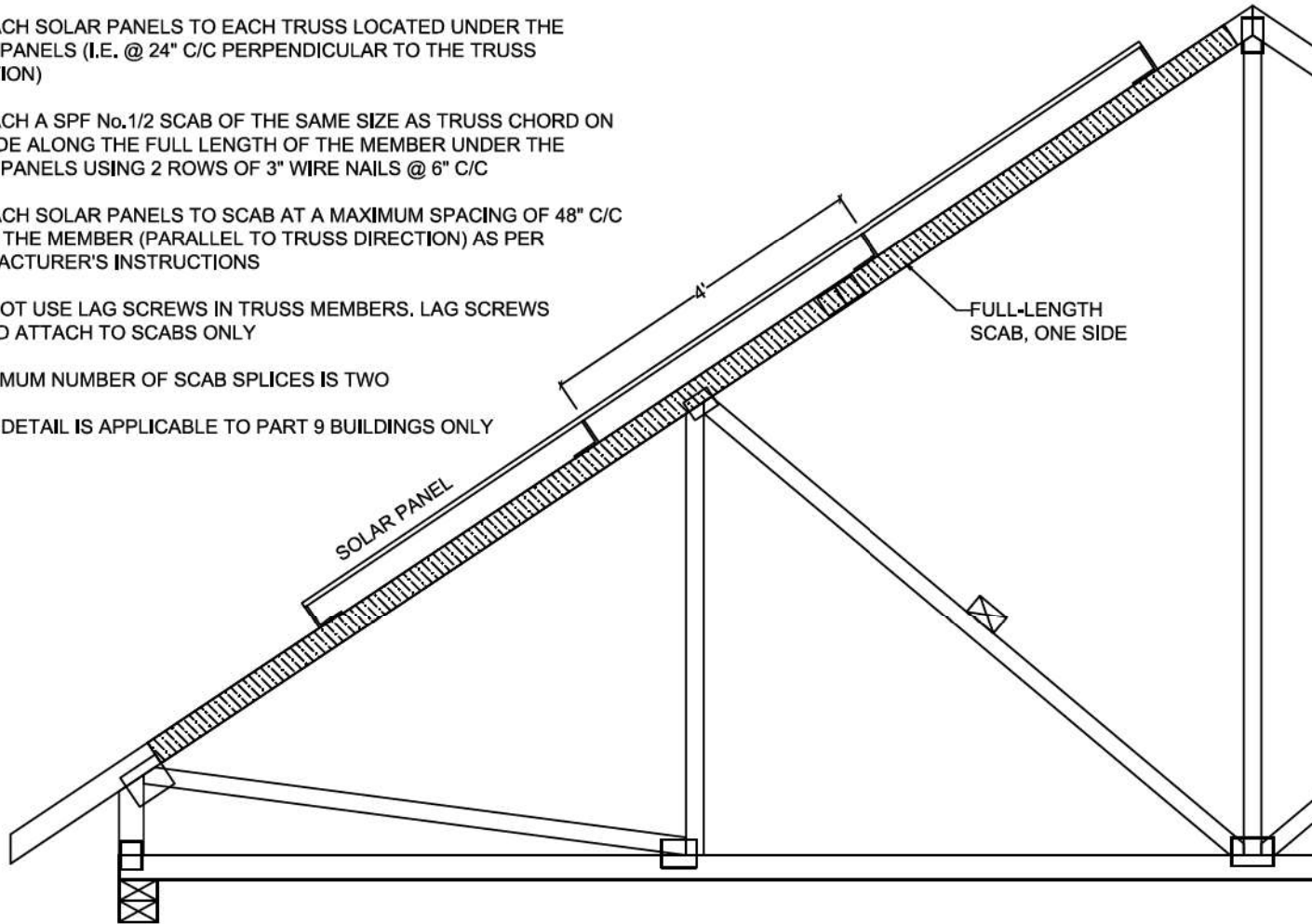
3) ATTACH A SPF No.1/2 SCAB OF THE SAME SIZE AS TRUSS CHORD ON ONE SIDE ALONG THE FULL LENGTH OF THE MEMBER UNDER THE SOLAR PANELS USING 2 ROWS OF 3" WIRE NAILS @ 6" C/C

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



Detail for Installation of Solar Panels - Scab Method

NE1220-111
GREENPARK - TRINAR
HALL - GLENWAY 3A ELE 1



NE1220-111
GREENPARK - TRINAR
HALL - GLENWAY 3A ELE 1

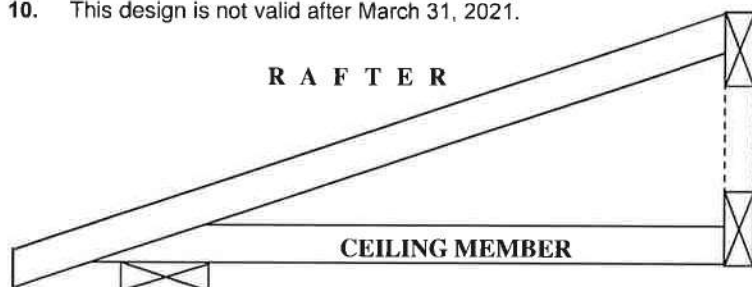
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B97791H1

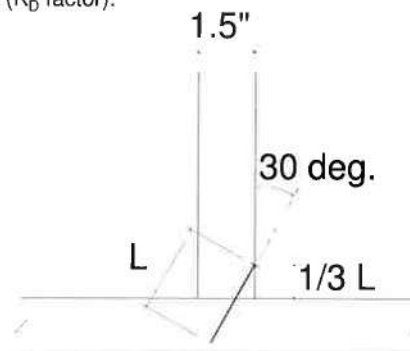
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL LATERAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	132	147
	3.25	0.144	132	147
	3.50	0.160	159	177
COMMON SPIRAL	3.00	0.122	97	108
	3.25	0.122	97	108
	3.50	0.152	145	162

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.



G
I
R
D
E
R



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

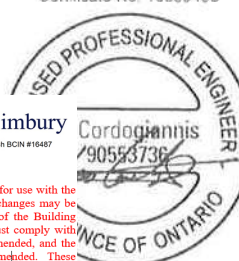


Team of
East Gwillimbury
Building Standards Branch BCIN #10487

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December

PEO
Certificate No. 10889485



Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			

NE1220-111
GREENPARK - TRINAR
HALL - GLENWAY 3A ELE 1

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

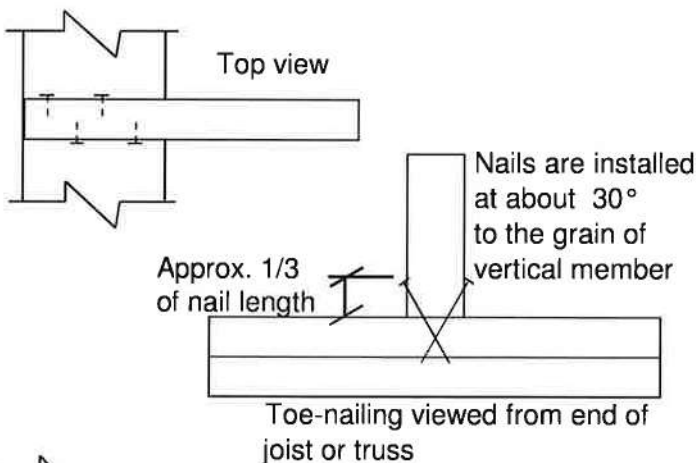
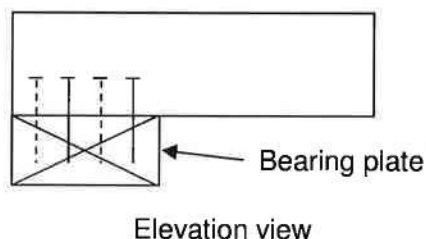
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52
COMMON SPIRAL	3.00	0.122	26	36
	3.25	0.122	28	40
	3.50	0.152	36	50

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

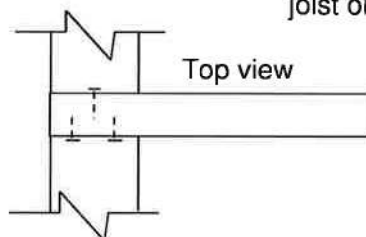
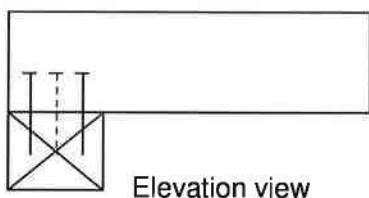
NOTES:

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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