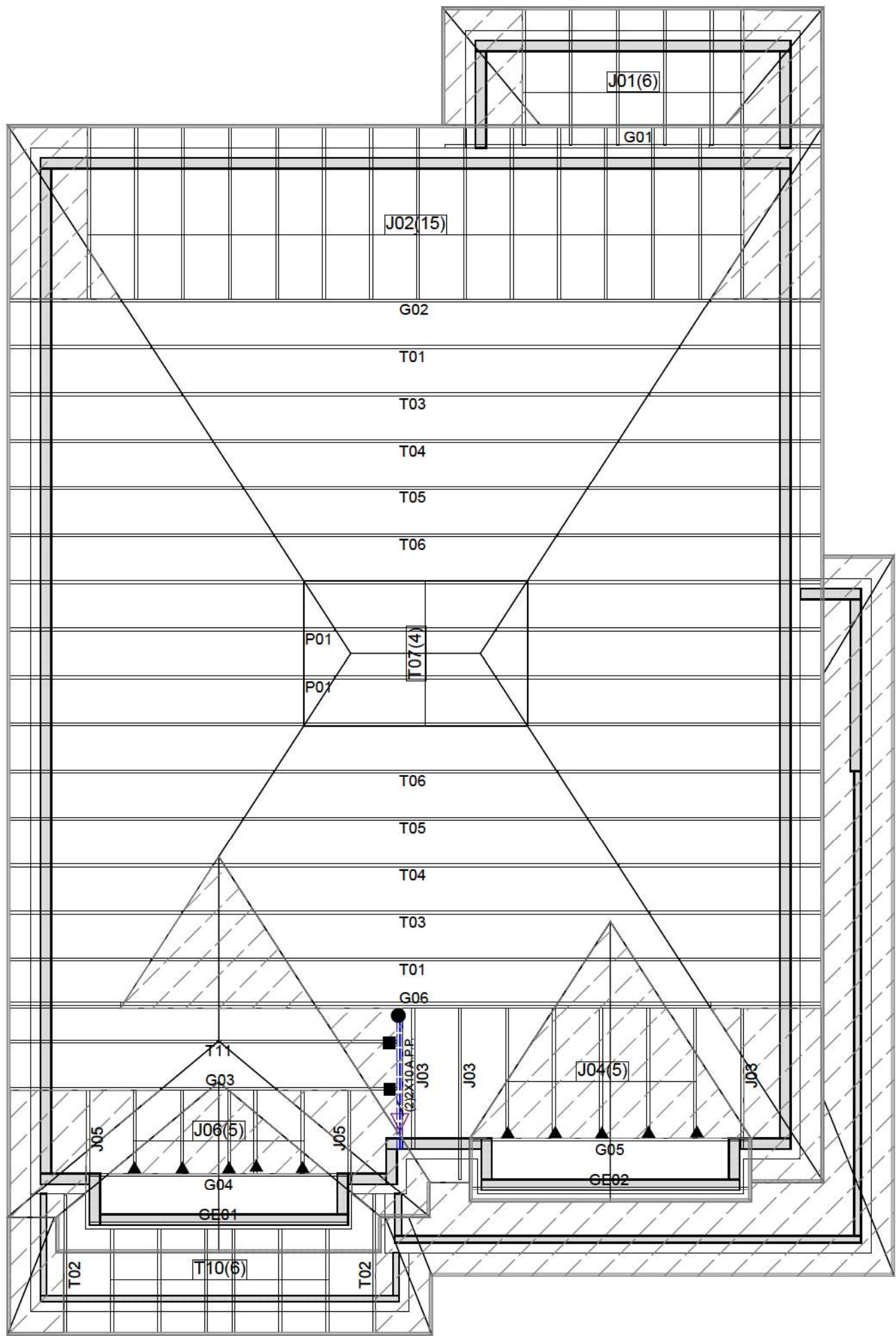




Hanger Name	Symbol	QTY
LUS24	▲	10
LJS26DS	■	2
HGUS26-2	●	1

PIGGYBACK TRUSSES TO BE SUPPORTED ON 2X4 SPF #1/2 MEMBERS @ 24"O/C PLACED PERPENDICULAR TO THE PIGGYBACK DIRECTION.
PLACE 2X4 MEMBERS BETWEEN THE BOTTOM CHORD OF THE PIGGYBACK TRUSS AND THE TOP CHORD OF THE SUPPORTING TRUSS.

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 #	T20-00762
Address	TRINAR HALL EAST GWILLIMBURY, ON
Model	GLENWAY 2A ELEV 3
Sales Rep	RALPH MIRIGELLO
Designer	DM
Date	12/16/2020
Path	C:\DATA\JOBS\GREENPARK\TRINAR HALL\MODELS\GLENWAY 2A\ELEV 3\T-GLENWAY2A-3\

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





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

NE1220-108
GREENPARK - TRINAR HALL
- GLENWAY 2A ELE 3

ENGINEERING NOTE PAGE (ENP-1)

PLEASE READ PRIOR TO INSTALLATION

RESPONSIBILITIES

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

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

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

USE AND OCCUPANCY

- The building is of the type indicated on the drawing

LOADING

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

HANDLING, INSTALLATION AND BRACING

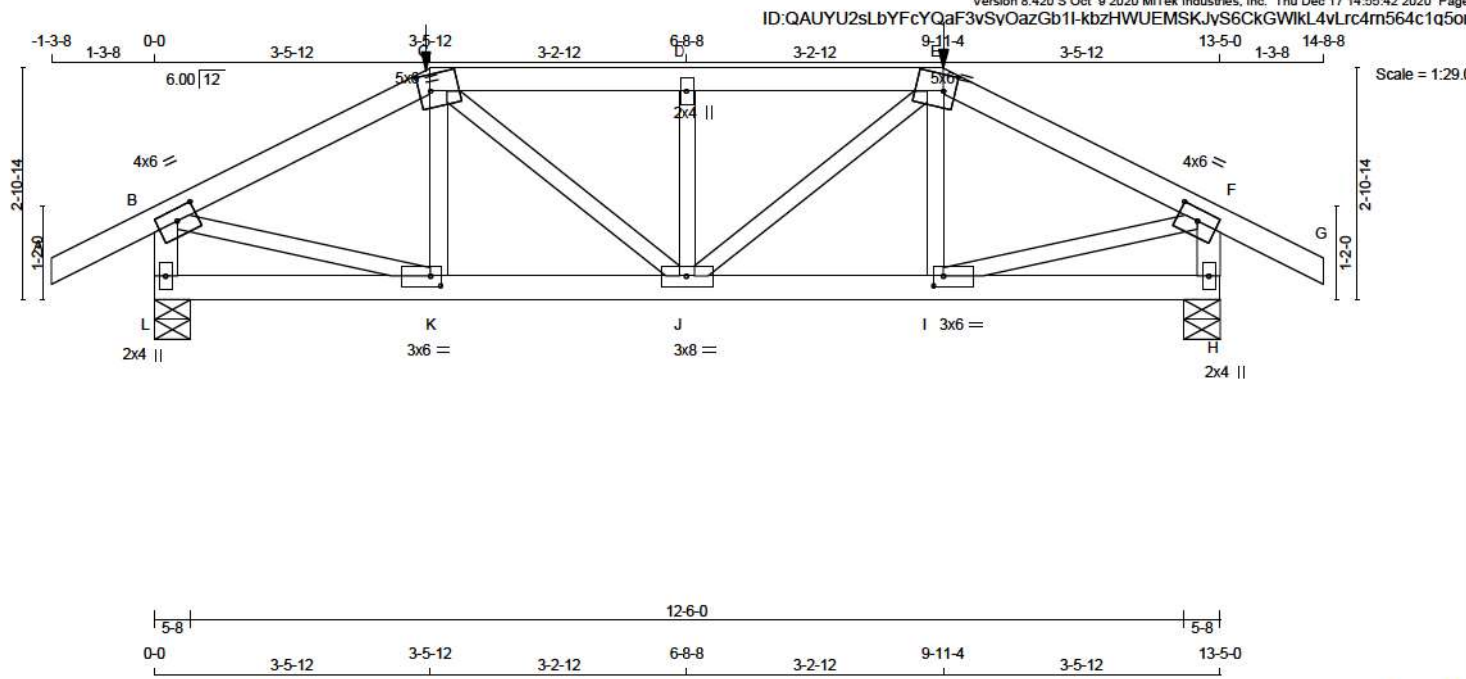
- The trusses must be handled and installed by a qualified professional as per the supplied document titled *Information for Truss Installers* and the BCSI-B1 and BCSI-B3 Summary Sheets
- The compression chords are laterally braced by continuous rigid diaphragm sheathing or as specified on the drawing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

SUPPORTS

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

DIMENSIONS

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



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
C - E	2x4	DRY No.2	SPF
E - G	2x4	DRY No.2	SPF
L - B	2x4	DRY No.2	SPF
H - F	2x4	DRY No.2	SPF
L - 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-t	MT20	4.0	6.0	1.75	3.00
C TTWW-m	MT20	5.0	6.0	2.50	1.75
D TMVW-w	MT20	2.0	4.0		
E TTWW-m	MT20	5.0	6.0	2.50	1.75
F TMVW-t	MT20	4.0	6.0	1.75	3.00
H BMV1-p	MT20	2.0	4.0		
I BMWW-t	MT20	3.0	6.0	1.50	1.50
J BMWW-t	MT20	3.0	6.0		
K BMWW-t	MT20	3.0	6.0	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	REQD BRG
JT VERT	1813	0	5-8
L H	1813	0	5-8

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT COMBINED	1334
L	793 / 0
H	793 / 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 = 4.01 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX. CSI (LC)	UNBRACED LENGTH	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO					HFR-TO		
A-B	0 / 38	-124.4	-124.4	0.18 (1)	10.00	K-C	-201 / 112
B-C	-2021 / 0	-124.4	-124.4	0.36 (1)	4.34	C-J	0 / 892
C-D	-2336 / 0	-186.6	-186.6	0.36 (1)	4.01	J-D	-718 / 0
D-E	-2336 / 0	-186.6	-186.6	0.36 (1)	4.01	J-E	0 / 892
E-F	-2021 / 0	-124.4	-124.4	0.36 (1)	4.34	I-E	-201 / 112
F-G	0 / 38	-124.4	-124.4	0.18 (1)	10.00	B-K	0 / 1856
L-B	-1724 / 0	0.0	0.0	0.19 (1)	6.29	I-F	0 / 1856
H-F	-1724 / 0	0.0	0.0	0.19 (1)	6.29		
L-K	0 / 0	-58.9	-58.9	0.14 (3)	10.00		
K-J	0 / 1798	-58.9	-58.9	0.41 (1)	10.00		
J-I	0 / 1798	-58.9	-58.9	0.41 (1)	10.00		
I-H	0 / 0	-58.9	-58.9	0.14 (3)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	3-5-12	-213	-213	---	FRONT	VERT	TOTAL	---	C1
E	9-11-4	-213	-213	---	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

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

GIRDER TYPE: CPrimeHip

SIDE SETBACK = 3-5-12

END SETBACK = 4-5-8

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 (0.45")

CALCULATED VERT. DEFL. (LL) = L/999 (0.05")

ALLOWABLE DEFL. (TL) = L/360 (0.45")

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

CSI: TC=0.39/1.00 (C-D:1), BC=0.41/1.00 (J-K:1), WB=0.48/1.00 (B-K:1), SSI=0.31/1.00 (C-D:1)

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

SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (B) (INPUT = 0.90)

JSI METAL = 0.52 (B) (INPUT = 1.00)

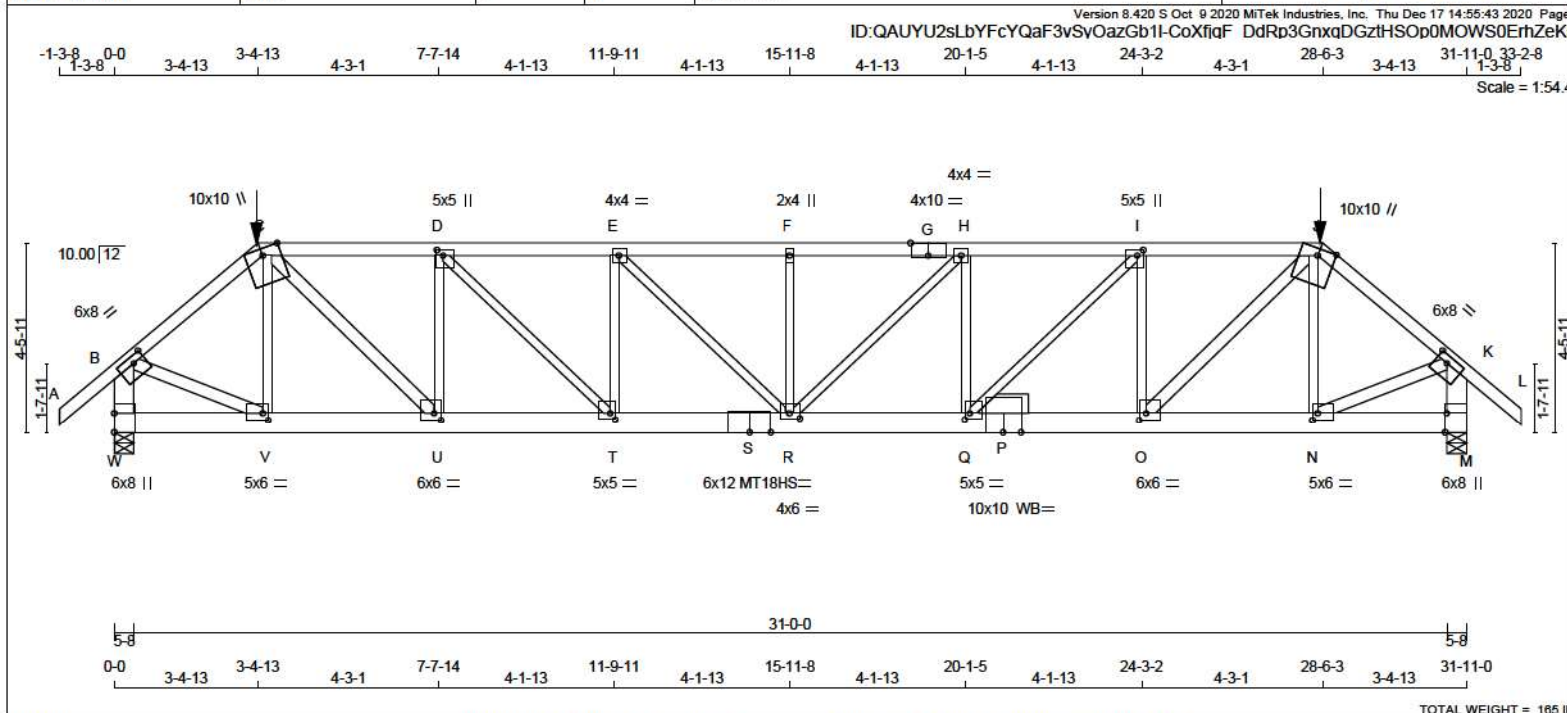


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Discipline	Reviewer	BCIN	Date
Building Code	H. Author	43236	2021-02-08
Sewage System			
Zoning			



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.



LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA						
N. L. G. A. RULES				BEARINGS										SPECIFIED LOADS:						
CHORDS	SIZE		LUMBER	DESCR.	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG		TOP CH.	LL	PSF						
A - C	2x4	DRY	2100F 1.8E	SPF	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	DL	8.0	PSF					
C - G	2x4	DRY	2100F 1.8E	SPF	W	5034	0	5034	0	0	5-8	5-8	BOT CH.	LL	10.5	PSF				
G - J	2x4	DRY	2100F 1.8E	SPF	M	5034	0	5034	0	0	5-8	5-8		DL	7.3	PSF				
J - L	2x4	DRY	2100F 1.8E	SPF												TOTAL LOAD	=	60.6	PSF	
W - B	2x6	DRY	No.2	SPF												SPACING =			24.0	IN. C/C
M - K	2x6	DRY	No.2	SPF												LOADING IN FLAT SECTION BASED ON A SLOPE OF			2.00/12 MINIMUM	
W - S	2x6	DRY	2100F 1.8E	SPF												GIRDER TYPE:			CPrimeHip	
S - P	2x6	DRY	2100F 1.8E	SPF												SIDE SETBACK =			3-4-13	
P - M	2x6	DRY	2100F 1.8E	SPF												END SETBACK =			6-0-0	
ALL WEBS EXCEPT				SPF												END WALL WIDTH =			5-8	
C - U	2x4	DRY	No.2	SPF												CORNER FRAMING TYPE:			CONVENTIONAL	
O - J	2x4	DRY	No.2	SPF																
B - V	2x4	DRY	No.2	SPF																
N - K	2x4	DRY	No.2	SPF																
DRY: SEASONED LUMBER.																				

PLATES (table is in inches)				CHORDS				WEBS			
JT TYPE	PLATES	W	LEN	Y	X	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC2)	MAX. FACTORED VERT. LOAD (LC3)
B	TMVW-t	MT20	6.0	8.0	2.00	3.25	0 / 55	-124.4	-124.4	0.12 (1)	10.00
C	TTWW+m	MT20	10.0	10.0	Edge	5.00	-5054 / 0	-124.4	-124.4	0.34 (1)	3.43
D	TMVW+t	MT20	5.0	5.0	1.50	1.75	-7202 / 0	-234.6	-234.6	0.76 (1)	2.40
E	TMVW-t	MT20	4.0	4.0			-9098 / 0	-234.6	-234.6	0.96 (1)	2.05
F	TMVW-w	MT20	2.0	4.0			-9733 / 0	-234.6	-234.6	0.90 (1)	2.11
G	TS-t	MT20	4.0	10.0	Edge	5.00	-9733 / 0	-234.6	-234.6	0.90 (1)	2.11
H	TMVW-t	MT20	4.0	4.0			-9733 / 0	-234.6	-234.6	0.90 (1)	2.11
I	TTWW+m	MT20	5.0	5.0	1.50	1.75	-9098 / 0	-234.6	-234.6	0.96 (1)	2.05
J	TTWW+m	MT20	10.0	10.0	Edge	5.00	-7202 / 0	-234.6	-234.6	0.76 (1)	2.40
K	TMVW-t	MT20	6.0	8.0	2.00	3.25	-5054 / 0	-124.4	-124.4	0.34 (1)	3.43
L	BMV1+t	MT20	6.0	8.0	Edge	0.50	0 / 55	-124.4	-124.4	0.12 (1)	10.00
M	BMVW-t	MT20	5.0	5.0	2.00	1.50	-4937 / 0	0.0	0.0	0.36 (1)	4.81
N	BMVW-t	MT20	6.0	6.0	2.00	2.00	-4937 / 0	0.0	0.0	0.36 (1)	4.81
O	BS-t	MT20	10.0	10.0			0 / 0	-74.0	-74.0	0.06 (2)	10.00
P	BMVW-t	MT20	5.0	5.0	1.75	1.50	0 / 3846	-74.0	-74.0	0.25 (1)	10.00
Q	BMVW-t	MT20	5.0	5.0	2.00	2.00	0 / 7202	-74.0	-74.0	0.45 (1)	10.00
R	BMVW-t	MT20	5.0	5.0	1.75	1.50	0 / 9098	-74.0	-74.0	0.58 (1)	10.00
S	BS-t	MT18HS	6.0	12.0			0 / 9098	-74.0	-74.0	0.58 (1)	10.00
T	BMVW-t	MT20	5.0	5.0	1.75	1.50	0 / 7202	-74.0	-74.0	0.45 (1)	10.00
U	BMVW-t	MT20	6.0	6.0	2.00	2.00	0 / 7202	-74.0	-74.0	0.45 (1)	10.00
V	BMVW-t	MT20	5.0	5.0	2.00	1.50	0 / 3846	-74.0	-74.0	0.25 (1)	10.00
W	BMV1+t	MT20	6.0	8.0	5.50		0 / 0	-74.0	-74.0	0.06 (2)	10.00

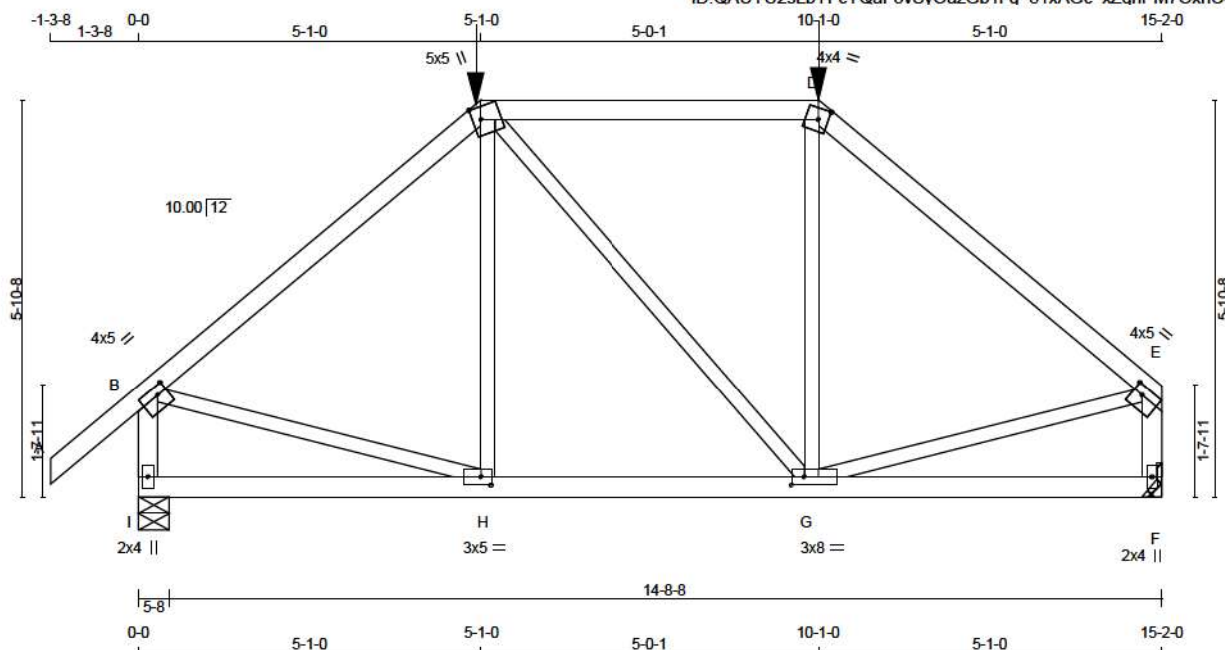
FACTORED CONCENTRATED LOADS (LBS)				CONNECTION REQUIREMENTS			
JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE
C	3-5-7	-317	-317	-	FRONT	VERT	TOTAL
J	28-5-9	-317	-317	-	FRONT	VERT	TOTAL

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. Author	43236	2021-02-08
Sewage System			
Zoning			

CONTINUED ON PAGE 2



TOTAL WEIGHT = 66 lb

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
I - B	2x4	DRY	No.2
F - E	2x4	DRY	No.2
I - F	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-1	MT20	4.0	5.0	1.50	1.75
C	TTWW+m	MT20	5.0	5.0	2.25	1.50
D	TTW-m	MT20	4.0	4.0	2.00	1.75
E	TMVW-1	MT20	4.0	5.0	1.50	1.75
F	BMV1+p	MT20	2.0	4.0		
G	BMVWW-1	MT20	3.0	8.0	1.50	2.25
H	BMVW-1	MT20	3.0	5.0	1.50	1.75
I	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	UPLIFT
I	1863	0	1863	0
F	1691	0	1691	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT F. MINIMUM BEARING LENGTH AT JOINT F = 2-0.

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
I	1373	812 / 0	221 / 0
F	1254	715 / 0	221 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.96 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				FR-TO			
A-B	0 / 55	-124.4	-124.4 0.19 (1)	H-C	0 / 253	0.07 (3)	0.07 (3)
B-C	-1507 / 0	-124.4	-124.4 0.74 (1)	C-G	0 / 0	0.00 (1)	0.00 (1)
C-D	-1156 / 0	-172.4	-172.4 0.88 (1)	G-D	0 / 254	0.07 (3)	0.07 (3)
D-E	-1507 / 0	-124.4	-124.4 0.74 (1)	B-H	0 / 1182	0.29 (1)	0.29 (1)
I-B	-1747 / 0	0.0	0.0 0.20 (1)	G-E	0 / 1182	0.29 (1)	0.29 (1)
F-E	-1575 / 0	0.0	0.0 0.18 (1)				
I-H	0 / 0	-54.4	-54.4 0.28 (3)				
H-G	0 / 1156	-54.4	-54.4 0.42 (2)				
G-F	0 / 0	-54.4	-54.4 0.28 (3)				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	5-1-0	-215	-215	—	FRONT	VERT	TOTAL	—	C1
D	10-1-0	-215	-215	—	FRONT	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

- 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

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

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 5-1-0
END SETBACK = 3-6-8
END WALL WIDTH = 0-0
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 (0.51")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.51")
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.88/1.00 (C-D:1), BC=0.42/1.00 (G-H:2), WB=0.29/1.00 (E-G:1), SSI=0.37/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
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 (I) (INPUT = 0.90)
JSI METAL = 0.52 (B) (INPUT = 1.00)



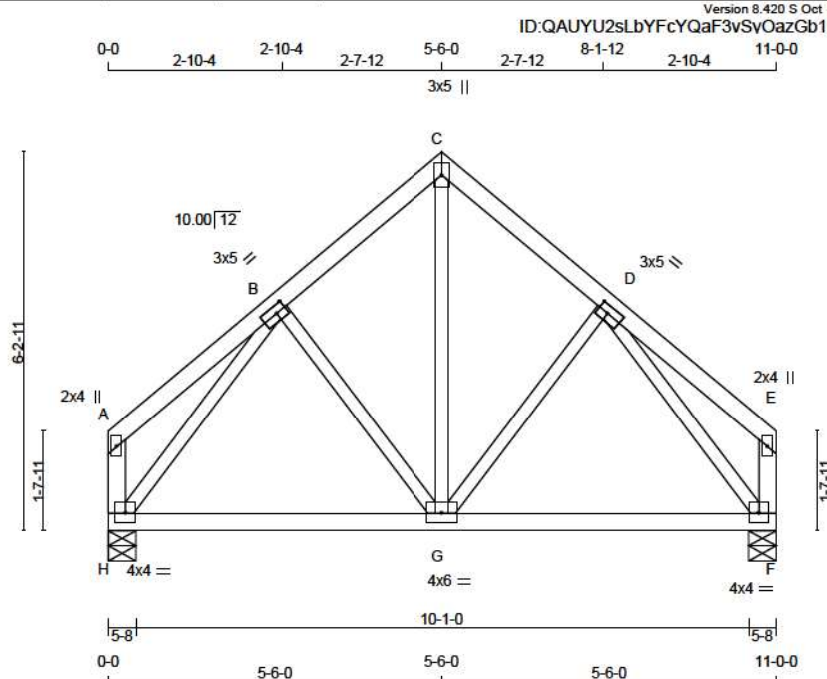
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Discipline	Reviewer	BCIN	Date
Building Code	H. Author	43236	2021-02-08
Sewage System			
Zoning			





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 - A	2x4	DRY	No.2		SPF
F - E	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
A	TMV+p	MT20	2.0	4.0	
B	TMWW-I	MT20	3.0	5.0	1.50 2.00
C	TTW+p	MT20	3.0	5.0	
D	TMWW-I	MT20	3.0	5.0	1.50 2.00
E	TMV+p	MT20	2.0	4.0	
F	BMVW1-I	MT20	4.0	4.0	
G	BMWWW-I	MT20	4.0	6.0	
H	BMVW1-I	MT20	4.0	4.0	

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
H	1247	0	1247	0	0
F	1247	0	1247	0	0

UNFACTORED REACTIONS							
1ST CASE	MAX	MIN	COMPONENT	REACTIONS			
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
H	924	530 / 0	160 / 0	0 / 0	0 / 0	233 / 0	0 / 0
F	924	530 / 0	160 / 0	0 / 0	0 / 0	233 / 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. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 / 22	-124.4 -124.4	0.15 (1)	10.00	G-C	0 / 805	0.20 (1)
B-C	-863 / 0	-124.4 -124.4	0.16 (1)	8.25	G-D	-67 / 49	0.02 (1)
C-D	-863 / 0	-124.4 -124.4	0.16 (1)	8.25	B-G	-67 / 49	0.02 (1)
D-E	0 / 22	-124.4 -124.4	0.15 (1)	10.00	H-B	-1128 / 0	0.38 (1)
H-A	-138 / 0	0.0	0.0	0.02 (1)	D-F	-1128 / 0	0.38 (1)
F-E	-138 / 0	0.0	0.0	0.02 (1)			
H-G	0 / 686	-102.3 -102.3	0.68 (1)	10.00			
G-F	0 / 686	-102.3 -102.3	0.68 (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

GIRDER TYPE: CStd Girder
START DISTANCE = 0-0
START SPAN CARRIED = 3-6-8
END DISTANCE = 11-0-0
END SPAN CARRIED = 3-6-8
END WALL WIDTH = 0-0
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
-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 (0.37")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.37")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.16/1.00 (B-C:1) , BC=0.68/1.00 (G-H:1) ,
WB=0.38/1.00 (B-H:1) , SSI=0.30/1.00 (G-H:2)

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 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (D) (INPUT = 0.90)
JSI METAL = 0.32 (B) (INPUT = 1.00)

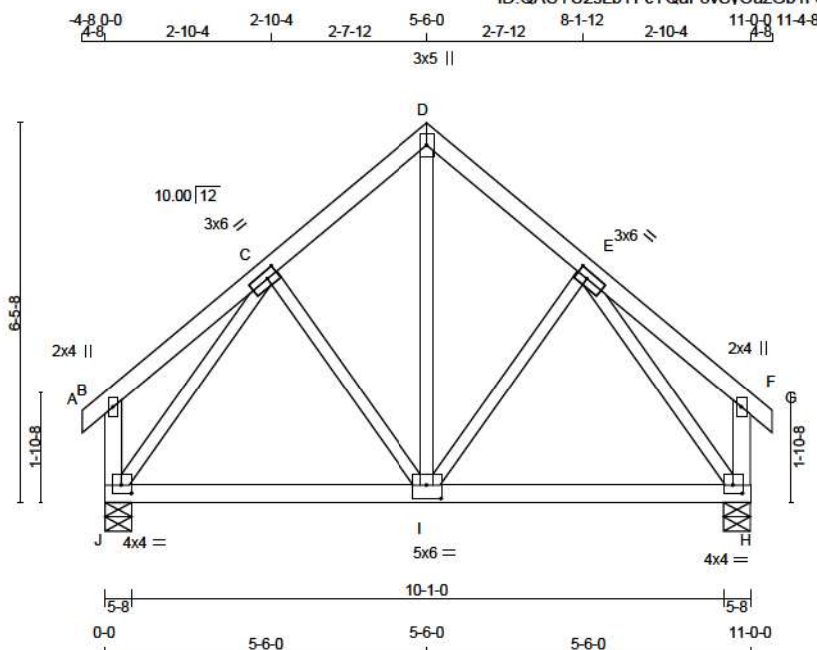


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Discipline	Reviewer	BCIN	Date
Building Code	H. Author	43236	2021-02-08
Sewage System			
Zoning			



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TOTAL WEIGHT = 53 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
J - B	2x4	DRY	No.2		SPF
H - F	2x4	DRY	No.2		SPF
J - H	2x4	DRY	2100F 1.8E		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-I	MT20	3.0	6.0	1.50	2.25
D TTW+p	MT20	3.0	6.0		
E TMWW-I	MT20	3.0	6.0	1.50	2.25
F TMV+p	MT20	2.0	4.0		
H BMVW1-I	MT20	4.0	4.0	1.75	2.00
I BMWW-I	MT20	5.0	6.0	2.75	3.00
J BMVW1-I	MT20	4.0	4.0	1.75	2.00

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
J	1756	0	1756	0	0
H	1756	0	1756	0	0

UNFACTORED REACTIONS		1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
J	1297	755 / 0	218 / 0	0 / 0	0 / 0
H	1297	755 / 0	218 / 0	0 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.72 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO	FROM TO	FR-TO	FROM TO
A-B	0 / 19	I-D	0 / 1179
B-C	0 / 21	I-E	0 / 98
C-D	-1156 / 0	C-I	0 / 98
D-E	-1156 / 0	J-C	-1445 / 0
E-F	0 / 21	E-H	-1445 / 0
F-G	0 / 19		
J-B	-198 / 0		
H-F	-198 / 0		
J-I	0 / 844		
I-H	0 / 844		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 11.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.8 PSF

SPACING = 24.0 IN. C/C

GIRDER TYPE: CStd Girder
START DISTANCE = 0-0
START SPAN CARRIED = 5-6-8
END DISTANCE = 11-0-0
END SPAN CARRIED = 5-6-8
END WALL WIDTH = 0-0
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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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 (0.37")
CALCULATED VERT. DEFL.(LL) = L/998 (0.09")
ALLOWABLE DEFL.(TL) = L/360 (0.37")
CALCULATED VERT. DEFL.(TL) = L/881 (0.15")

CSI: TC=0.16/1.00 (D-E-1), BC=0.73/1.00 (I-J-1),
WB=0.53/1.00 (C-J-1), SSI=0.54/1.00 (I-J-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



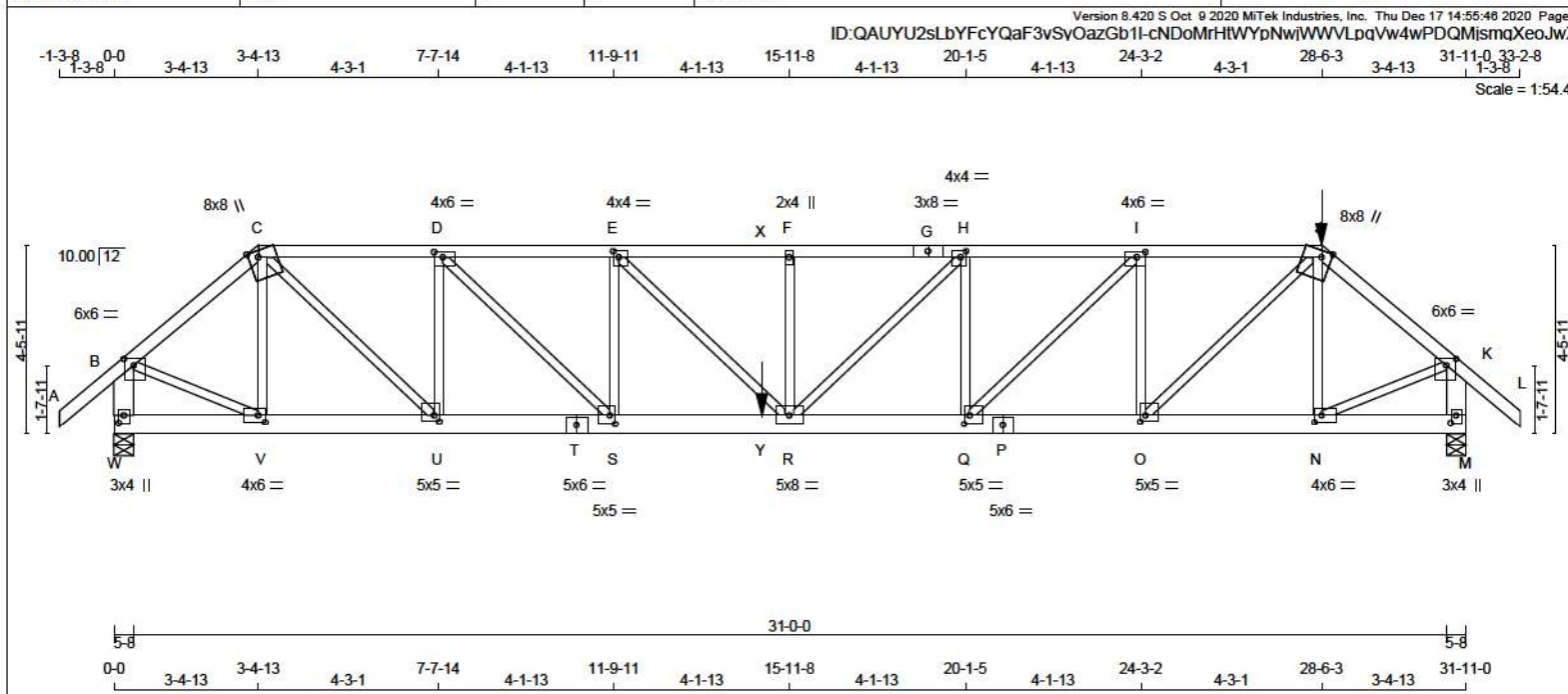
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Discipline	Reviewer	BCIN	Date
Building Code	H. Author	43236	2021-02-08
Sewage System			
Zoning			





LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	DESCR.
A - C	2x4	DRY	No.2 SPF
C - G	2x4	DRY	No.2 SPF
G - J	2x4	DRY	No.2 SPF
J - L	2x4	DRY	No.2 SPF
W - B	2x6	DRY	No.2 SPF
M - K	2x6	DRY	No.2 SPF
W - T	2x6	DRY	2100F 1.8E SPF
T - P	2x6	DRY	2100F 1.8E SPF
P - M	2x6	DRY	2100F 1.8E SPF
ALL WEBS EXCEPT	2x3	DRY	No.2 SPF

DRY: SEASONED LUMBER.

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

CHORDS#ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C	12	TOP
C - G	12	SIDE(55.1)
G - J	12	SIDE(55.1)
J - L	12	SIDE(0.0)
W - B	12	TOP
M - K	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
W - T	12	TOP
T - P	12	SIDE(22.0)
P - M	12	SIDE(22.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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	4610	0	4610	0	0
W	5585	0	5585	0	0

UNFACTORED REACTIONS							
1ST LCASE MAX/MIN COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
W	3404	1986	0	568	0	0	0
M	4131	2389	0	704	0	0	0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.15 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)	FACTORED LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED LC1 MAX (LC)	MEMB.
FR-TO				FR-TO			
A-B	0 / 55	-124.4	-124.4 0.09 (1)	10.00	V-C	-974 / 0	0.14 (1)
B-C	-4614 / 0	-124.4	-124.4 0.23 (1)	4.28	C-U	0 / 5025	0.62 (1)
C-D	-7137 / 0	-124.4	-124.4 0.39 (1)	3.40	U-D	-3453 / 0	0.50 (1)
D-E	-10071 / 0	-124.4	-124.4 0.61 (1)	2.69	D-S	0 / 4122	0.51 (1)
E-X	-11901 / 0	-124.4	-124.4 0.77 (1)	2.30	S-E	-2289 / 0	0.33 (1)
X-F	-11901 / 0	-234.6	-234.6 0.77 (1)	2.30	E-R	0 / 2571	0.32 (1)
F-G	-11901 / 0	-234.6	-234.6 0.87 (1)	2.15	R-F	-805 / 0	0.12 (1)
G-H	-11901 / 0	-234.6	-234.6 0.87 (1)	2.15	H-R	0 / 1760	0.22 (1)
H-I	-10649 / 0	-234.6	-234.6 0.83 (1)	2.31	Q-H	-2213 / 0	0.32 (1)
I-J	-8203 / 0	-234.6	-234.6 0.83 (1)	2.91	Q-I	0 / 3436	0.43 (1)
J-K	-5624 / 0	-124.4	-124.4 0.27 (1)	3.89	O-I	-3473 / 0	0.50 (1)
K-L	0 / 55	-124.4	-124.4 0.09 (1)	10.00	O-J	0 / 5436	0.67 (1)
W-B	-4583 / 0	0.0	0.0 0.17 (1)	6.74	N-J	-1122 / 0	0.16 (1)
M-K	-5502 / 0	0.0	0.0 0.20 (1)	6.26	B-V	0 / 3742	0.46 (1)
W-V	0 / 0	-39.2	-39.2 0.03 (1)	10.00	N-K	0 / 4561	0.56 (1)
V-U	0 / 3509	-39.2	-39.2 0.12 (1)	10.00			
U-T	0 / 7138	-39.2	-39.2 0.22 (1)	10.00			
T-S	0 / 7138	-39.2	-39.2 0.22 (1)	10.00			
S-Y	0 / 10071	-39.2	-39.2 0.50 (1)	10.00			
Y-R	0 / 10071	-74.0	-74.0 0.50 (1)	10.00			
R-Q	0 / 10649	-74.0	-74.0 0.32 (1)	10.00			
Q-P	0 / 8204	-74.0	-74.0 0.27 (1)	10.00			
P-O	0 / 8204	-74.0	-74.0 0.27 (1)	10.00			
O-N	0 / 4278	-74.0	-74.0 0.15 (1)	10.00			
N-M	0 / 0	-74.0	-74.0 0.04 (2)	10.00			

FACTORED CONCENTRATED LOADS (LBS)							
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
J	28-6-3	-317	-317	-	FRONT	VERT	TOTAL
Y	15-3-8	-2274	-2274	-	FRONT	VERT	TOTAL

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

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

SPACING = 24.0 IN./C

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

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 3-4-13
END SETBACK = 6-0-0
END WALL WIDTH = 6-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
-ADDTL LOADS BASED ON 55 % OF GSL
LOADS APPLIED TO FIRST 16-7-8 OF SPAN MEASURED FROM THE RIGHT.

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

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

THIS DESIGN COMPLIES WITH:
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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 (1.06")
CALCULATED VERT. DEFL.(LL) = U 999 (0.28")
ALLOWABLE DEFL.(TL)= L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/810 (0.47")

CSI: TC=0.87/1.00 (F-H:1), BC=0.50/1.00 (R-S:1),
WB=0.67/1.00 (J-O:1), SSI=0.67/1.00 (R-S:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

CONTINUED ON PAGE 2



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Building Code	H. Author	43236	2021-02-08
Sewage System			
Zoning			



PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	6.0	6.0	1.75	2.75
C	TTWW+m	MT20	8.0	8.0	Edge	2.75
D	TMWW-t	MT20	4.0	6.0	1.50	2.50
E	TMWW-t	MT20	4.0	4.0	1.75	1.50
F	TMW+w	MT20	2.0	4.0		
G	TS-t	MT20	3.0	8.0		
H	TMWW-t	MT20	4.0	4.0	1.75	1.50
I	TMWW-t	MT20	4.0	6.0	1.50	2.50
J	TTWW+m	MT20	8.0	8.0	Edge	2.75
K	TMVW-p	MT20	6.0	6.0	1.75	2.75
M	BMV1+p	MT20	3.0	4.0	2.25	1.50
N	BMWW-t	MT20	4.0	6.0	2.00	2.00
O	BMWW-t	MT20	5.0	5.0	1.75	1.50
P	BS-t	MT20	5.0	6.0		
Q	BMWW-t	MT20	5.0	5.0	2.50	1.50
R	BMWW-t	MT20	5.0	8.0		
S	BMWW-t	MT20	5.0	5.0	2.50	1.50
T	BS-t	MT20	5.0	6.0		
U	BMWW-t	MT20	5.0	5.0	1.75	1.50
V	BMWW-t	MT20	4.0	6.0	2.00	2.00
W	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 (V) (INPUT = 0.90)
JSI METAL= 0.80 (T) (INPUT = 1.00)



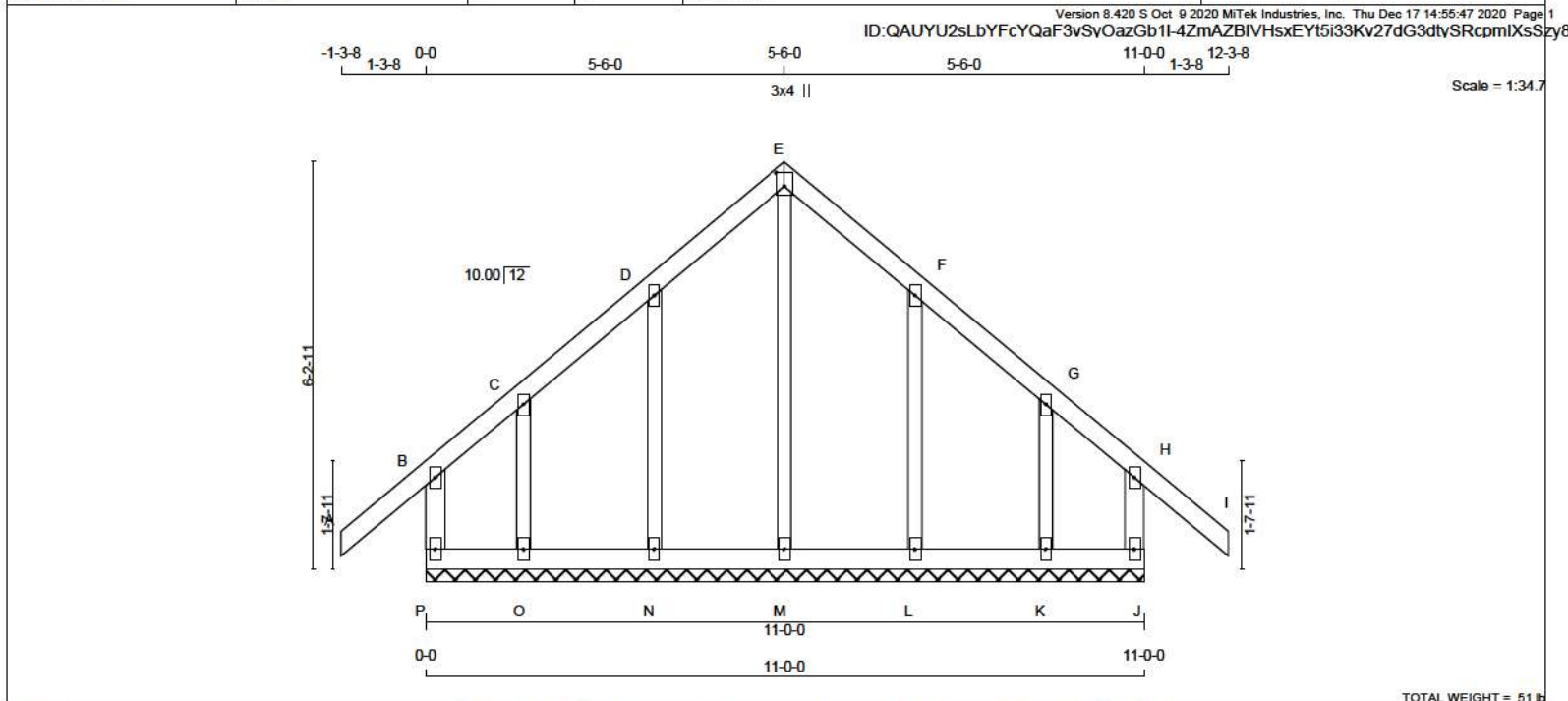
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			



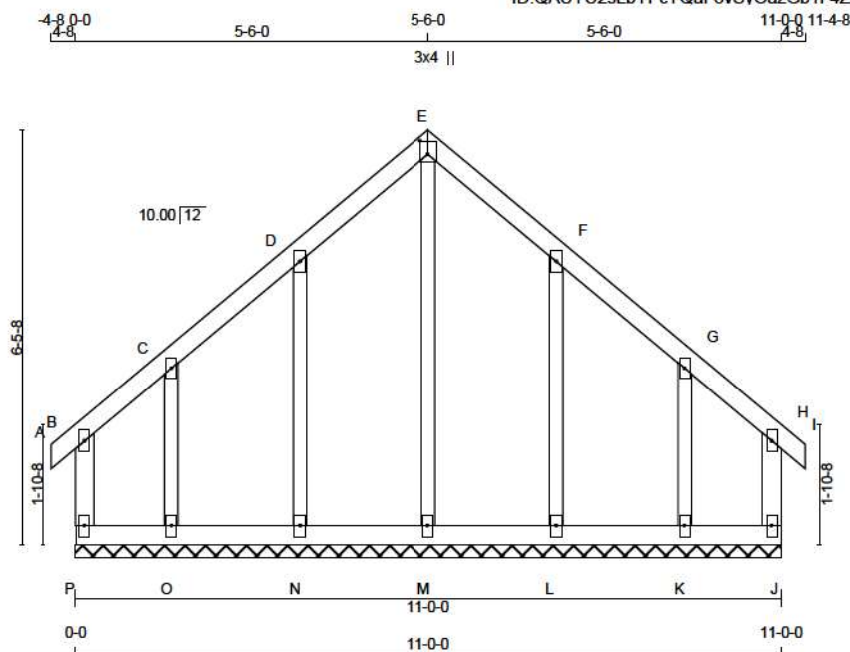


LUMBER										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA									
N. L. G. A. RULES										BEARINGS										SPECIFIED LOADS:									
CHORDS SIZE LUMBER DESCR.										THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.										TOP CH. LL = 34.8 PSF									
P - B 2x4 DRY No.2 SPF										THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.										DL = 8.0 PSF									
A - E 2x4 DRY No.2 SPF										BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)										BOT CH. LL = 10.5 PSF									
E - I 2x4 DRY No.2 SPF										BRACING										DL = 7.3 PSF									
J - H 2x4 DRY No.2 SPF										TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.										TOTAL LOAD = 60.6 PSF									
P - J 2x4 DRY No.2										MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.										SPACING = 24.0 IN. C/C									
ALL WEBS 2x3 DRY No.2 SPF										ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.										THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015									
ALL GABLE WEBS 2x3 DRY No.2 SPF										LOADING										THIS DESIGN COMPLIES WITH:									
DRY: SEASONED LUMBER.										TOTAL LOAD CASES: (4)										- PART 9 OF BCBC 2018, ABC 2019									
GABLE STUDS SPACED AT 2'-0" OC.																				- PART 9 OF OBC 2012 (2019 AMENDMENT)									
																				- CSA 086-14									
																				- TPIC 2014									
PLATES (table is in inches)										CHORDS										WEBS									
										MAX. FACTORED										MAX. FACTORED									
JT TYPE PLATES W LEN Y X										MEMB. FORCE (LBS) VERT. LOAD (PLF) LC1 MAX (LC) UNBRAC										MEMB. FORCE (LBS) MAX (LC)									
B TMV+p MT20 2.0 4.0										FR-TO FROM TO LENGTHFR-TO																			
C, D, F, G																													
C TMW+w MT20 2.0 4.0										P-B -278 / 0 0.0 0.0 0.06 (1) 7.81										M-E -314 / 0 0.19 (1)									
E TTW+p MT20 3.0 4.0 2.50 1.50										A-B 0 / 55 -124.4 -124.4 0.17 (1) 10.00										N-D -270 / 0 0.08 (1)									
H TMV+p MT20 2.0 4.0										B-C -2 / 9 -124.4 -124.4 0.11 (1) 10.00										O-C -152 / 0 0.03 (1)									
J BMV1+p MT20 2.0 4.0										C-D 0 / 52 -124.4 -124.4 0.08 (1) 10.00										L-F -270 / 0 0.08 (1)									
K, L, M, N, O										D-E 0 / 47 -124.4 -124.4 0.08 (1) 10.00										K- G -152 / 0 0.03 (1)									
K BMV1+w MT20 2.0 4.0										E-F 0 / 47 -124.4 -124.4 0.08 (1) 10.00																			
P BMV1+p MT20 2.0 4.0										F-G 0 / 52 -124.4 -124.4 0.08 (1) 10.00																			
										G-H -2 / 9 -124.4 -124.4 0.11 (1) 10.00																			
										H-I 0 / 55 -124.4 -124.4 0.17 (1) 10.00																			
										J-H -278 / 0 0.0 0.0 0.06 (1) 7.81																			
										P-O -27 / 0 -39.2 -39.2 0.02 (3) 6.25																			
										O-N -33 / 0 -39.2 -39.2 0.03 (3) 6.25																			
										N-M -39 / 0 -39.2 -39.2 0.03 (3) 6.25																			
										M-L -39 / 0 -39.2 -39.2 0.03 (3) 6.25																			
										L-K -33 / 0 -39.2 -39.2 0.03 (3) 6.25																			
										K-J -27 / 0 -39.2 -39.2 0.02 (3) 6.25																			
																				CSL: TC=0.17/1.00 (H-I:1), BC=0.03/1.00 (L-M:3), WB=0.19/1.00 (E-M:1), SSI=0.10/1.00 (A-B:1)									
																				DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10									
																				COMPANION LIVE LOAD FACTOR = 1.00									
																				TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .									
																				NAIL VALUES									
																				PLATE GRIP(DRY) SHEAR SECTION									
																				(PSI) (PLI) (PLI)									
																				MAX MIN MAX MIN MAX MIN									
																				MT20 650 371 1747 788 1987 1873									
																				PLATE PLACEMENT TOL. = 0.250 inches									

These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

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

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TOTAL WEIGHT = 50 lb

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

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)

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B TMV+p	MT20	2.0	4.0		
C, D, F, G					
C TMW+w	MT20	2.0	4.0		
E TTW+p	MT20	3.0	4.0	2.50	1.50
H TMV+p	MT20	2.0	4.0		
J BMV1+p	MT20	2.0	4.0		
K, L, M, N, O					
K BMW1+w	MT20	2.0	4.0		
P BMV1+p	MT20	2.0	4.0		

CHORDS		FACTORED		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (CSI (LC))	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO	
P-B	-155 / 0	0.0	0.0 0.03 (1)	M-E	-244 / 0
A-B	0 / 19	-124.4 -124.4 0.02 (1)	10.00	N-D	-258 / 0
B-C	-22 / 0	-124.4 -124.4 0.04 (1)	6.25	O-C	-208 / 0
C-D	-14 / 0	-124.4 -124.4 0.06 (1)	6.25	L-F	-258 / 0
D-E	-12 / 0	-124.4 -124.4 0.06 (1)	6.25	K-G	-208 / 0
E-F	-12 / 0	-124.4 -124.4 0.06 (1)	6.25		
F-G	-14 / 0	-124.4 -124.4 0.06 (1)	6.25		
G-H	-22 / 0	-124.4 -124.4 0.04 (1)	6.25		
H-I	0 / 19	-124.4 -124.4 0.02 (1)	10.00		
J-H	-155 / 0	0.0	0.0 0.03 (1)		
P-O	0 / 21	-39.2 -39.2 0.02 (1)	10.00		
O-N	0 / 14	-39.2 -39.2 0.03 (3)	10.00		
N-M	0 / 9	-39.2 -39.2 0.03 (3)	10.00		
M-L	0 / 9	-39.2 -39.2 0.03 (3)	10.00		
L-K	0 / 14	-39.2 -39.2 0.03 (3)	10.00		
K-J	0 / 21	-39.2 -39.2 0.02 (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

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=0.06/1.00 (C-D-1), BC=0.03/1.00 (K-L-3),
WB=0.16/1.00 (E-M-1), SSI=0.08/1.00 (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= 0.31 (E) (INPUT = 0.80)
JSI METAL= 0.14 (D) (INPUT = 1.00)



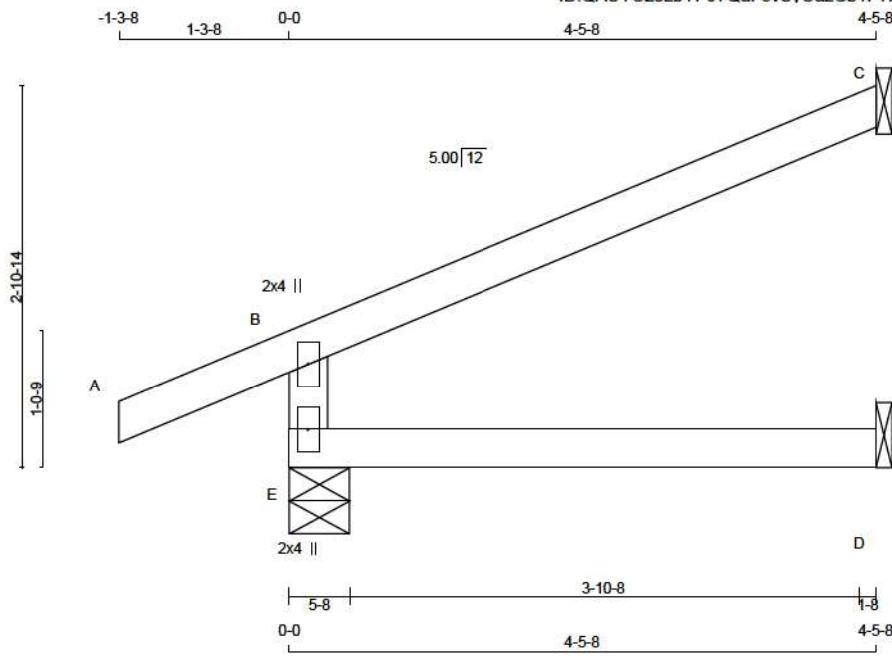
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Discipline	Reviewer	BCIN	Date
Building Code	H. Author	43236	2021-02-08
Sewage System			
Zoning			





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

DESCR.
SPF
SPF
SPF

DRY: SEASONED LUMBER.

PLATES (table 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
E	616	0	616	0
C	208	0	208	0
D	73	0	92	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 WIND DEAD SOIL
E	446	288 / 0	55 / 0	0 / 0 0 / 0 104 / 0 0 / 0
C	143	116 / 0	0 / 0	0 / 0 0 / 0 27 / 0 0 / 0
D	66	0 / 0	39 / 0	0 / 0 0 / 0 27 / 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)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	UNBRACED LENGTH
FR-TO				FR-TO			
E-B	-514 / 0	0.0	0.0 0.13 (3)	E-B	-514 / 0	0.0	7.81
A-B	0 / 32	-124.4	-124.4 0.16 (1)	A-B	0 / 32	-124.4	10.00
B-C	-27 / 0	-124.4	-124.4 0.42 (1)	B-C	-27 / 0	-124.4	6.25
E-D	0 / 0	-39.2	-39.2 0.13 (3)	E-D	0 / 0	-39.2	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

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 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.42/1.00 (B-C:1) , BC=0.13/1.00 (D-E:3) , WB=0.00/1.00 (n/a:0) , SSI=0.25/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.28 (B) (INPUT = 0.90)
JSI METAL = 0.18 (B) (INPUT = 1.00)



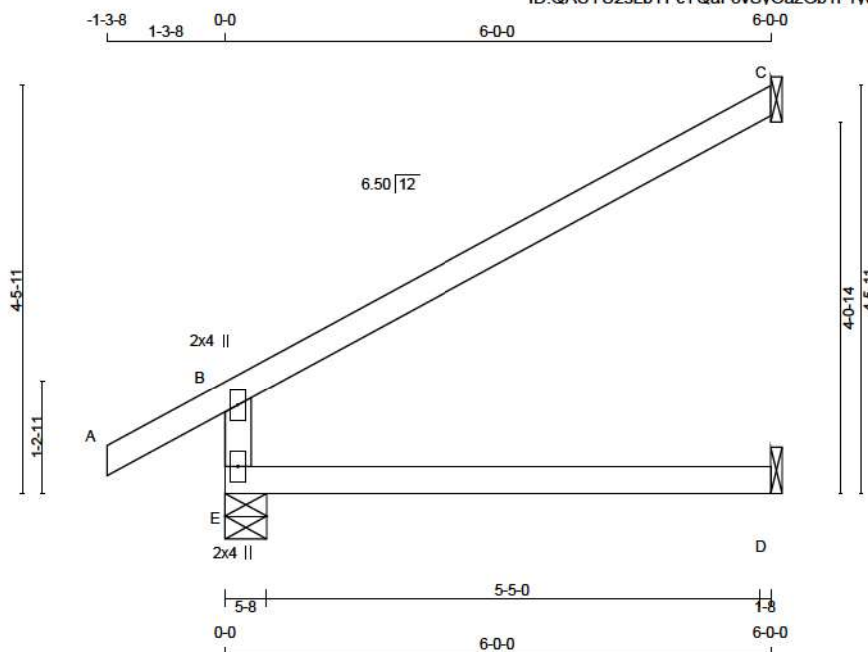
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Discipline	Reviewer	BCIN	Date
Building Code	H. Author	43236	2021-02-08
Sewage System			
Zoning			





TOTAL WEIGHT = 15 X 17 = 260 lb

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

DRY: SEASONED LUMBER.

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
E	774	0	774	0	5-8
C	280	0	280	0	1-8
D	98	0	124	0	1-8

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

UNFACTORED REACTIONS							
JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	563	356 / 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
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	MEMB.	MAX. FACTORED
	FORCE (LBS)		FORCE (LBS)
FR-TO		FR-TO	
E-B	-636 / 0	E-B	-39.2 / 0
A-B	0 / 40	A-B	-124.4 / 0.18 (1)
B-C	-44 / 0	B-C	-124.4 / 0.76 (1)
E-D	0 / 0	E-D	-39.2 / 0.24 (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

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/862 (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=0.32/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.36 (B) (INPUT = 0.90)
JSI METAL = 0.28 (B) (INPUT = 1.00)



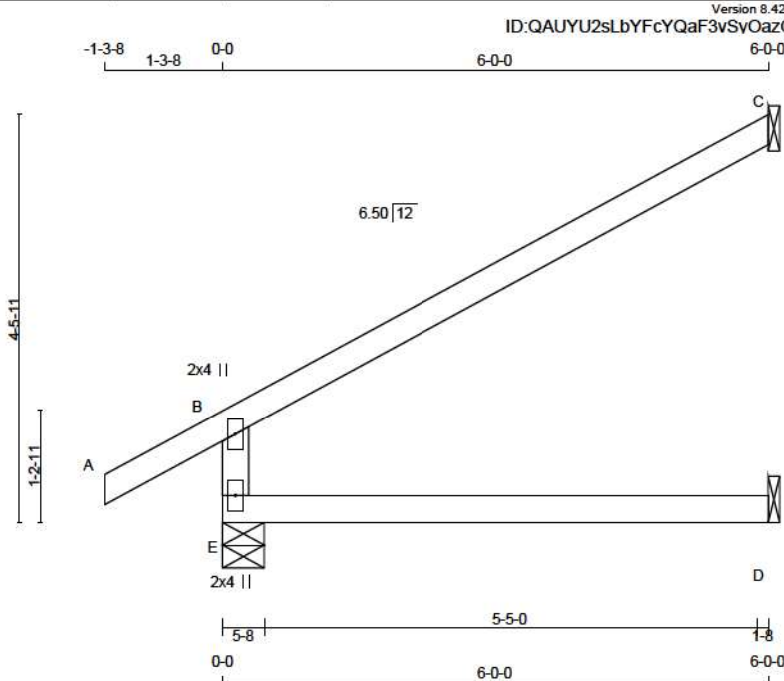
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Discipline	Reviewer	BCIN	Date
Building Code	H. Author	43236	2021-02-08
Sewage System			
Zoning			





Scale = 1:25.3

TOTAL WEIGHT = 3 X 17 = 52 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	GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
E	774	0	774	0	5-8
C	280	0	280	0	1-8
D	98	0	124	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
E	563	356 / 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
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, 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 UNBRACED LENGTH (FT)
FR-TO			
E-B	-636 / 0	0.0 0.0 0.24 (3)	7.81
A-B	0 / 40	-124.4 -124.4 0.18 (1)	10.00
B-C	-44 / 0	-124.4 -124.4 0.76 (1)	6.25
E-D	0 / 0	-39.2 -39.2 0.24 (3)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/882 (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=0.32/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.36 (B) (INPUT = 0.90)
JSI METAL= 0.28 (B) (INPUT = 1.00)



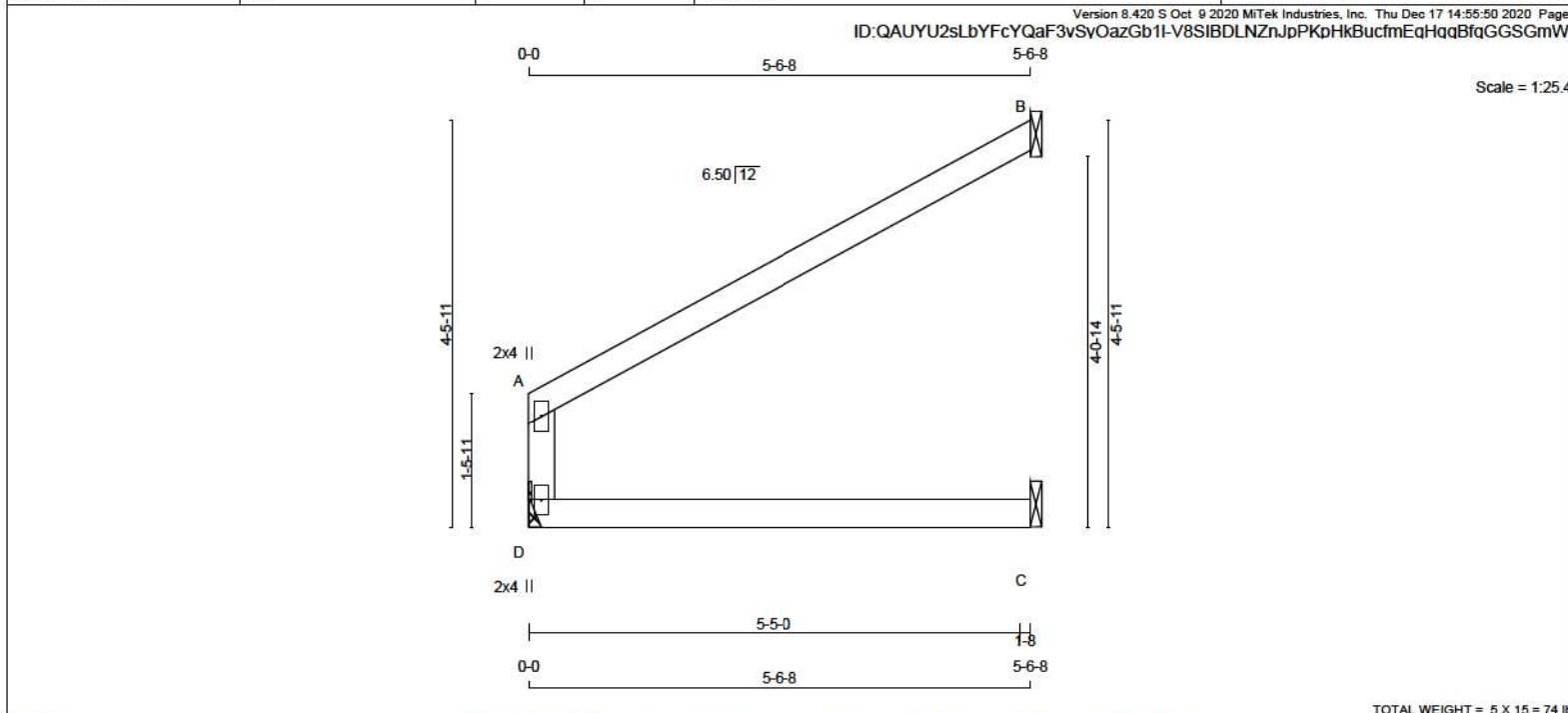
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Building Code	H. Author	43236	2021-02-08
Sewage System			
Zoning			



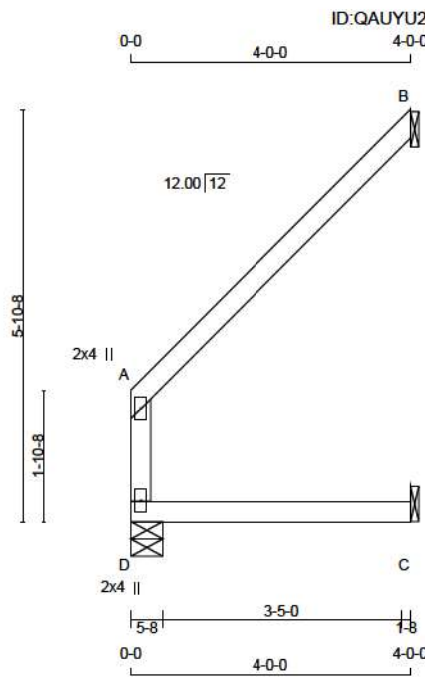


LUMBER										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA									
N. L. G. A. RULES										BEARINGS										SPECIFIED LOADS:									
CHORDS SIZE LUMBER										FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT BRG REQD BRG										TOP CH. LL = 34.8 PSF									
D - A 2x4 DRY No.2										JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX										DL = 8.0 PSF									
A - B 2x4 DRY No.2										D 454 0 454 0 0 MECHANICAL										BOT CH. LL = 10.5 PSF									
D - C 2x4 DRY No.2										B 319 0 319 0 0 1-8 1-8										DL = 7.3 PSF									
DRY: SEASONED LUMBER.										C 134 0 151 0 0 1-8 1-8										TOTAL LOAD = 60.6 PSF									
										A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 1-8.										SPACING = 24.0 IN. C/C									
PLATES (table is in inches)										SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) B, C										THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015									
JT TYPE PLATES W LEN Y X										UNFACTORED REACTIONS										THIS DESIGN COMPLIES WITH:									
A TMV+p MT20 2.0 4.0										1ST LCASE MAX/MIN COMPONENT REACTIONS										- PART 9 OF BCBC 2018, ABC 2019									
D BMV1+p MT20 2.0 4.0										JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL										- PART 9 OF OBC 2012 (2019 AMENDMENT)									
										D 336 193 / 0 58 / 0 0 / 0 0 / 0 85 / 0 0 / 0										- CSA 086-14									
										B 222 173 / 0 5 / 0 0 / 0 0 / 0 43 / 0 0 / 0										- TPIC 2014									
										C 114 20 / 0 53 / 0 0 / 0 0 / 0 41 / 0 0 / 0										(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD									
										BRACING										ALLOWABLE DEFL.(LL)= L/360 (0.19")									
										TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.										CALCULATED VERT. DEFL.(LL) = L/ 904 (0.07")									
										MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.										ALLOWABLE DEFL.(TL)= L/360 (0.19")									
										ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.										CALCULATED VERT. DEFL.(TL) = L/ 495 (0.13")									
										LOADING										CSI: TC=0.56/1.00 (A-B:1), BC=0.31/1.00 (C-D:1), WB=0.00/1.00 (n/a:0), SSI=0.25/1.00 (A-B:1)									
										TOTAL LOAD CASES: (4)										DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10									
										CHORDS										COMPANION LIVE LOAD FACTOR = 1.00									
										MEMB. MAX. FACTORED FORCE (LBS)										WEBS									
										FACTORED VERT. LOAD LC1 MAX. FACTORED VERT. LOAD (PLF) CSI (LC) UNBRACED LENGTH										MAX. FACTORED FORCE (LBS) MAX. FACTORED VERT. LOAD (PLF) CSI (LC)									
										FR-TO FROM TO																			
										D-A -370 / 0 0.0 0.0 0.17 (1) 7.81																			
										A-B -12 / 3 -124.4 -124.4 0.56 (1) 6.25																			
										D-C 0 / 0 -39.2 -39.2 0.31 (1) 10.00																			
																				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									

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

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Scale = 1:32.8

TOTAL WEIGHT = 2 X 13 = 26 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	X
A	TMV+p	MT20	2.0	4.0	
D	BMV1+p	MT20	2.0	4.0	

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	BRG	BRG
D	327	0	327	0	0	5-8	1-8	1-8	1-8
B	230	0	230	0	0	1-8	1-8	1-8	1-8
C	98	0	110	0	0	1-8	1-8	1-8	1-8

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

UNFACTORED REACTIONS							
JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
D	242	139 / 0	42 / 0	0 / 0	0 / 0	61 / 0	0 / 0
B	159	125 / 0	3 / 0	0 / 0	0 / 0	31 / 0	0 / 0
C	83	14 / 0	39 / 0	0 / 0	0 / 0	30 / 0	0 / 0

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

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 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)
FR-TO				FR-TO			
D-A	-268 / 0	0.0	0.0 (1)	7.81			
A-B	-14 / 2	-124.4	-124.4 (1)	6.25			
D-C	0 / 0	-39.2	-39.2 (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/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.28/1.00 (A-B:1), BC=0.17/1.00 (C-D:2),
WB=0.00/1.00 (n/a:0), SSI=0.15/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.20 (A) (INPUT = 0.90)
JSI METAL= 0.14 (A) (INPUT = 1.00)



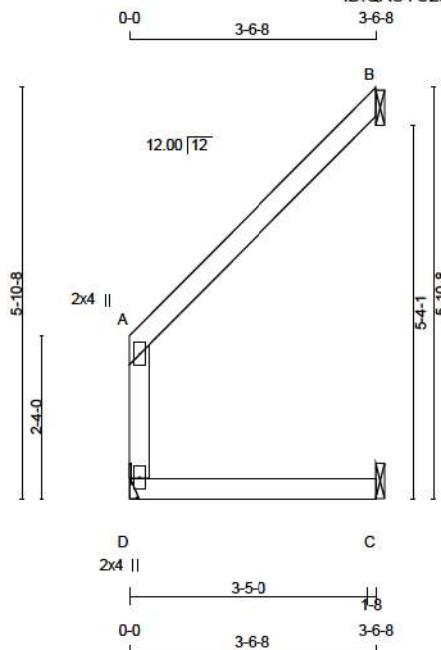
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Discipline	Reviewer	BCIN	Date
Building Code	H. Author	43236	2021-02-08
Sewage System			
Zoning			





Scale = 1:33.0

TOTAL WEIGHT = 5 X 12 = 61 lb

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

DRY: SEASONED LUMBER.

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQ'D	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX	BRG
D	290	0	290	0	0	MECHANICAL			
B	208	0	208	0	0	1-8	1-8		
C	84	0	96	0	0	1-8	1-8		

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

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

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
D	215	123 / 0	37 / 0	0 / 0	0 / 0	54 / 0	0 / 0	
B	142	113 / 0	2 / 0	0 / 0	0 / 0	27 / 0	0 / 0	
C	72	11 / 0	35 / 0	0 / 0	0 / 0	27 / 0	0 / 0	

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

C H O R D S		W E B S	
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORZ. LOAD (LC)
FR-TO			
D-A	-235 / 0	0.0	0.07 (1) 7.81
A-B	-10 / 2	-124.4 -124.4	0.22 (1) 6.25
D-C	0 / 0	-39.2 -39.2	0.13 (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

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

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- TPIC 2014

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

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

CSI: TC=0.22/1.00 (A-B:1) , BC=0.13/1.00 (C-D:2) .
WB=0.00/1.00 (n/a:0) , 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	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (A) (INPUT = 0.90)
JSI METAL = 0.12 (A) (INPUT = 1.00)



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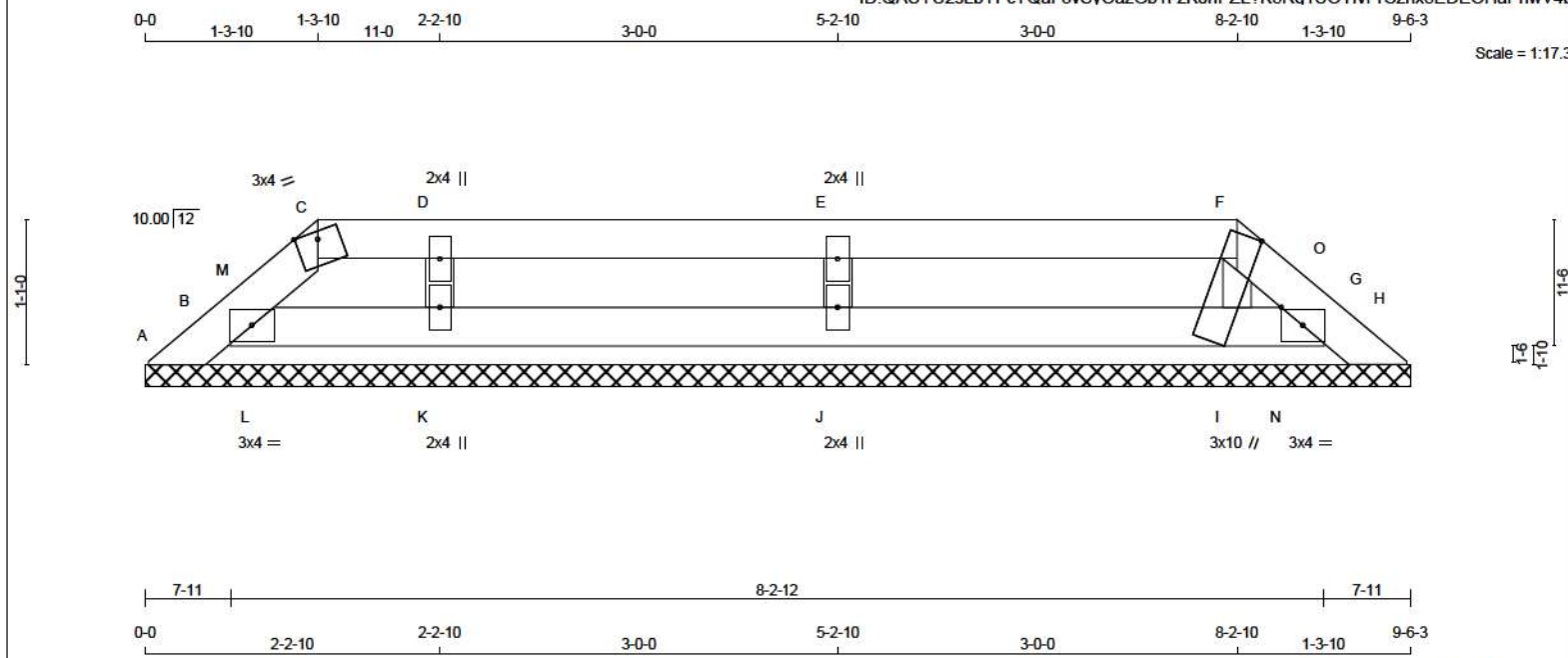


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Discipline	Reviewer	BCIN	Date
Building Code	H. Author	43236	2021-02-08
Sewage System			
Zoning			



Scale = 1:17.3



LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	DRY	NO.2	DESCR.
A - C	2x4	DRY	No.2	SPF
C - F	2x4	DRY	No.2	SPF
F - H	2x4	DRY	No.2	SPF
B - G	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 3-0-0 OC.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-I	MT20	3.0	4.0	
C	TT-m	MT20	3.0	4.0	Edge
D	TMW+w	MT20	2.0	4.0	
E	TMW+w	MT20	2.0	4.0	
F					
G	TMB1-I	MT20	3.0	4.0	
I					
J	TTBW1+m	MT20	3.0	10.0	5.00 3.75
K	BMW1+w	MT20	2.0	4.0	
L	BMW1+w	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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

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

PROVIDE ANCHORAGE AT BEARING JOINT G FOR 150 LBS. FACTORED UPLIFT BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 MAX. CSI (LC)
FR-TO				FR-TO			
A-B	0 / 8	-142.7	-142.7 0.01 (1)	10.00	I-F	-141 / 0	0.02 (1)
B-M	-39 / 0	-124.4	-124.4 0.01 (1)	6.25	J-E	-435 / 0	0.06 (1)
M-C	-20 / 0	-124.4	-124.4 0.00 (1)	6.25	K-D	-291 / 0	0.04 (1)
C-D	-12 / 0	-124.4	-124.4 0.08 (1)	6.25	L-M	-15 / 0	0.00 (1)
D-E	-14 / 0	-124.4	-124.4 0.17 (1)	6.25	N-O	-74 / 0	0.00 (1)
E-F	-13 / 0	-124.4	-124.4 0.17 (1)	6.25			
F-O	-30 / 0	-124.4	-124.4 0.01 (2)	6.25			
O-G	-6 / 20	-124.4	-124.4 0.01 (3)	10.00			
G-H	-2 / 3	-142.7	-142.7 0.01 (1)	10.00			
B-L	0 / 14	-39.2	-39.2 0.01 (1)	10.00			
L-K	0 / 14	-39.2	-39.2 0.05 (3)	10.00			
K-J	0 / 14	-39.2	-39.2 0.07 (3)	10.00			
J-I	0 / 14	-39.2	-39.2 0.07 (3)	10.00			
I-N	0 / 14	-39.2	-39.2 0.05 (3)	10.00			
N-G	0 / 14	-39.2	-39.2 0.01 (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, 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

CSI: TC=0.17/1.00 (D-E-1), BC=0.07/1.00 (J-K-3), WB=0.06/1.00 (E-J-1), SS=0.18/1.00 (E-F-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (I) (INPUT = 0.90)

JSI METAL = 0.09 (E) (INPUT = 1.00)



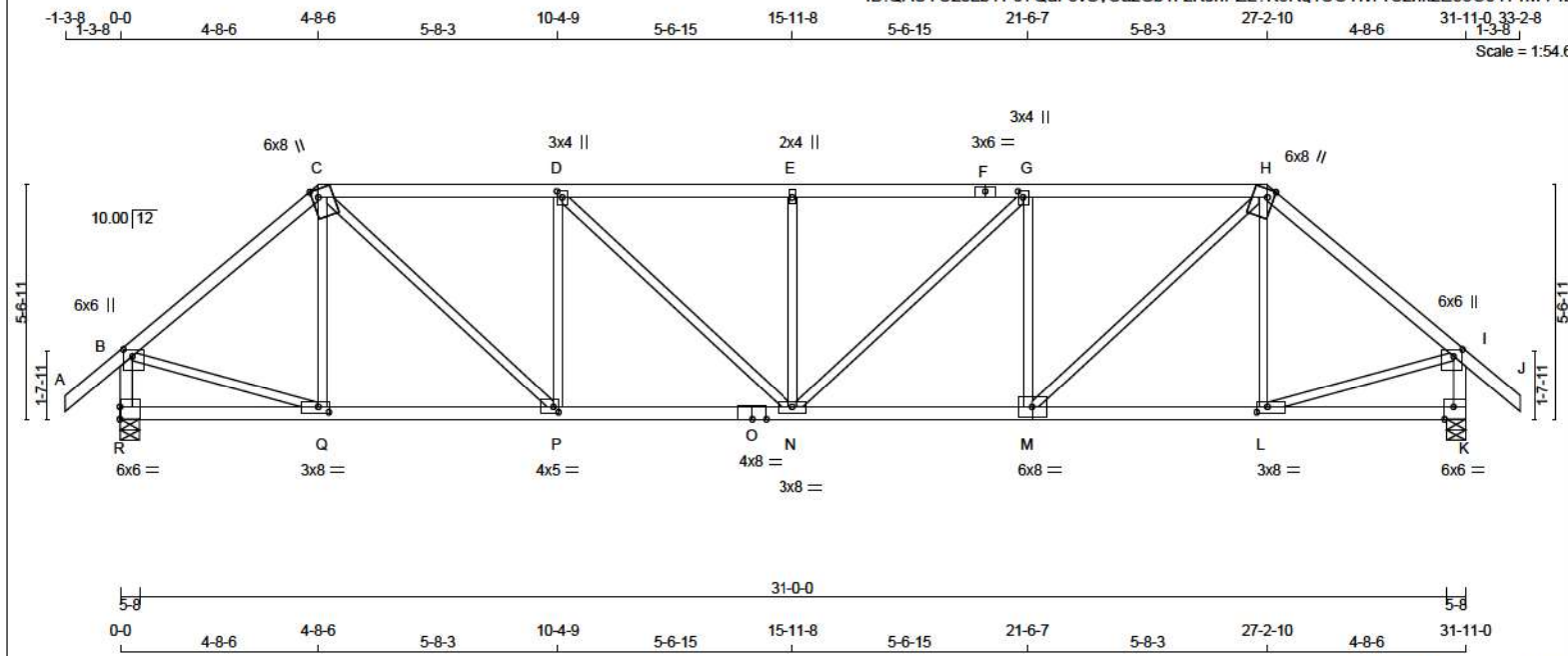
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Discipline	Reviewer	BCIN	Date
Building Code	H. Author	43236	2021-02-08
Sewage System			
Zoning			





LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
C - F	2x4	DRY No.2	SPF
F - H	2x4	DRY No.2	SPF
H - J	2x4	DRY No.2	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	2x3	DRY No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	6.0	6.0	2.00	2.50
C	TTWW+m	MT20	6.0	8.0	Edge	1.75
D	TMVW+t	MT20	3.0	4.0	1.75	1.50
E	TMVW+w	MT20	2.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TMVW+t	MT20	3.0	4.0	1.75	1.50
H	TTWW+m	MT20	6.0	8.0	Edge	1.75
I	TMVW+p	MT20	6.0	6.0	2.00	2.50
K	BMV1-t	MT20	6.0	6.0	Edge	2.50
L	BMVW-t	MT20	3.0	8.0	1.50	3.00
M	BSVW-t	MT20	6.0	8.0		
N	BMVWVW-t	MT20	3.0	8.0		
O	BS-t	MT20	4.0	8.0		
P	BMVW-t	MT20	4.0	5.0	1.50	1.50
Q	BMVW-t	MT20	3.0	8.0	1.50	3.00
R	BMV1-t	MT20	6.0	6.0	3.50	

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	DOWN	5-8	5-8
R	HORZ	UPLIFT	5-8	5-8
K				

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
R	2053	1207 / 0	335 / 0
K	2053	1207 / 0	335 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.52 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH
FR-TO					FR-TO		
A-B	0 / 55	-124.4	-124.4 0.17 (1)	10.00	Q-C	-319 / 52	0.15 (1)
B-C	-2643 / 0	-124.4	-124.4 0.70 (1)	3.55	C-P	0 / 2106	0.47 (1)
C-D	-3567 / 0	-124.4	-124.4 0.93 (1)	2.77	P-D	-1219 / 0	0.57 (1)
D-E	-4026 / 0	-124.4	-124.4 1.00 (1)	2.52	D-N	0 / 631	0.14 (1)
E-F	-4026 / 0	-124.4	-124.4 1.00 (1)	2.52	N-E	-639 / 0	0.30 (1)
F-G	-4026 / 0	-124.4	-124.4 1.00 (1)	2.52	N-G	0 / 652	0.15 (1)
G-H	-3552 / 0	-124.4	-124.4 0.93 (1)	2.78	M-G	-1233 / 0	0.57 (1)
H-I	-2648 / 0	-124.4	-124.4 0.70 (1)	3.55	M-H	0 / 2080	0.47 (1)
I-J	0 / 55	-124.4	-124.4 0.17 (1)	10.00	L-H	-298 / 82	0.14 (1)
R-B	-2712 / 0	0.0	0.0 0.29 (1)	5.23	B-Q	0 / 2099	0.47 (1)
K-I	-2717 / 0	0.0	0.0 0.29 (1)	5.22	L-I	0 / 2103	0.47 (1)
R-Q	0 / 0	-39.2	-39.2 0.20 (3)	10.00			
Q-P	0 / 2019	-39.2	-39.2 0.47 (1)	10.00			
P-O	0 / 3567	-39.2	-39.2 0.71 (1)	10.00			
O-N	0 / 3567	-39.2	-39.2 0.71 (1)	10.00			
N-M	0 / 3552	-39.2	-39.2 0.71 (1)	10.00			
M-L	0 / 2024	-39.2	-39.2 0.50 (2)	10.00			
L-K	0 / 0	-39.2	-39.2 0.25 (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 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 (0.21")
ALLOWABLE DEFL.(TL)= L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.35")

CSI: TC=1.00/1.00 (E-G-1) , BC=0.71/1.00 (M-N-1) ,
WB=0.57/1.00 (G-M-1) , SS=0.33/1.00 (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= 0.90 (P) (INPUT = 0.90)
JSI METAL = 0.78 (M) (INPUT = 1.00)



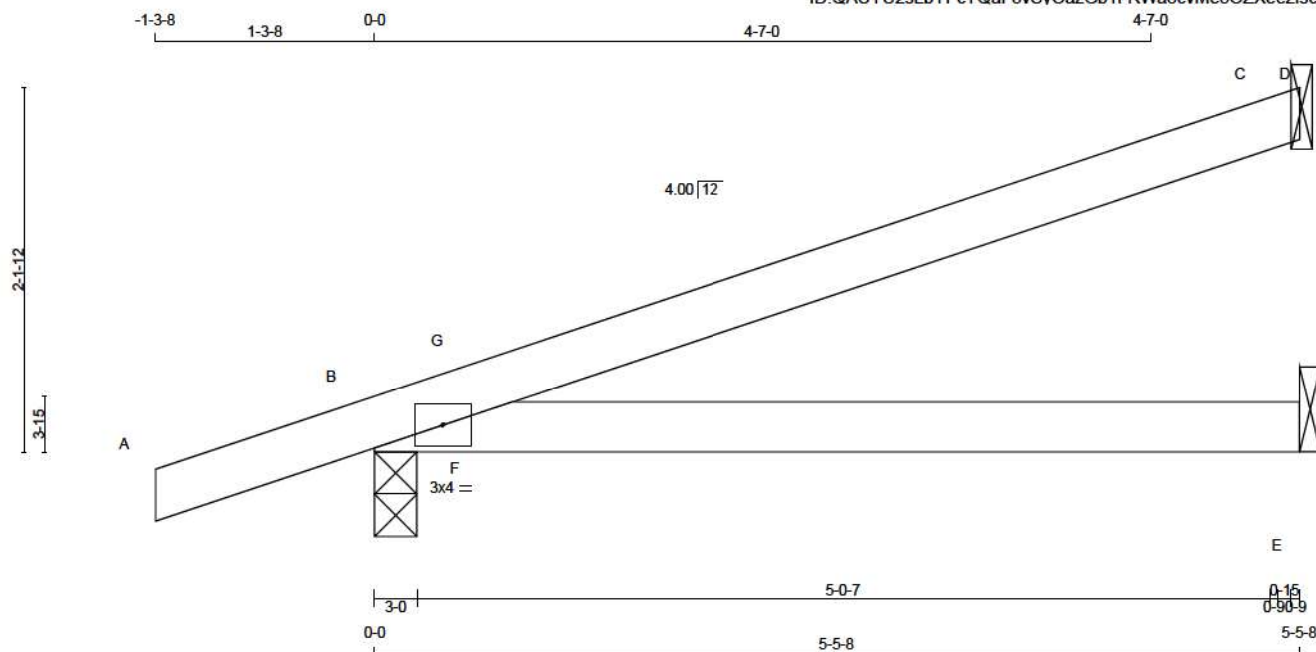
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Discipline	Reviewer	BCIN	Date
Building Code	H. Author	43236	2021-02-08
Sewage System			
Zoning			





TOTAL WEIGHT = $2 \times 14 = 28$ lb

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT IN-SX	IN-SX
B	607	0	607	0	0	1-8
E	142	0	152	0	0	1-8
C	300	0	300	0	0	1-8

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

UNFACTORED REACTIONS

1ST LCASE		MAX / MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	441	280 / 0	57 / 0	0 / 0	0 / 0	104 / 0	0 / 0
E	118	29 / 0	49 / 0	0 / 0	0 / 0	40 / 0	0 / 0
C	211	157 / 0	9 / 0	0 / 0	0 / 0	45 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 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				WEBBS			
MEMB.	MAX. FACTORED (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM LC1	TO HFR-TO				
A-B	0 / 25	-124.4	-124.4	0.16 (1)		F-G	-313 / 111
B-G	-52 / 0	-124.4	-124.4	0.04 (3)			0.00 (1)
G-C	0 / 8	-124.4	-124.4	0.48 (1)			
C-D	0 / 0	-20.0	-20.0	0.00 (4)			
B-F	0 / 0	-39.2	-39.2	0.31 (1)			
F-E	0 / 0	-39.2	-39.2	0.35 (1)			

DESIGN CRITERIA

SPECIFIED LOADS:

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 088-1
- 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/ 760 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 439 (0.15")

CSI: TC=0.48/1.00 (C-G:1), BC=0.35/1.00 (E-F:1),
WB=0.00/1.00 (F-G:1), SS=0.30/1.00 (B-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

	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= 0.37 (B) (INPUT = 0.80)
JSI METAL= 0.09 (B) (INPUT = 1.00)



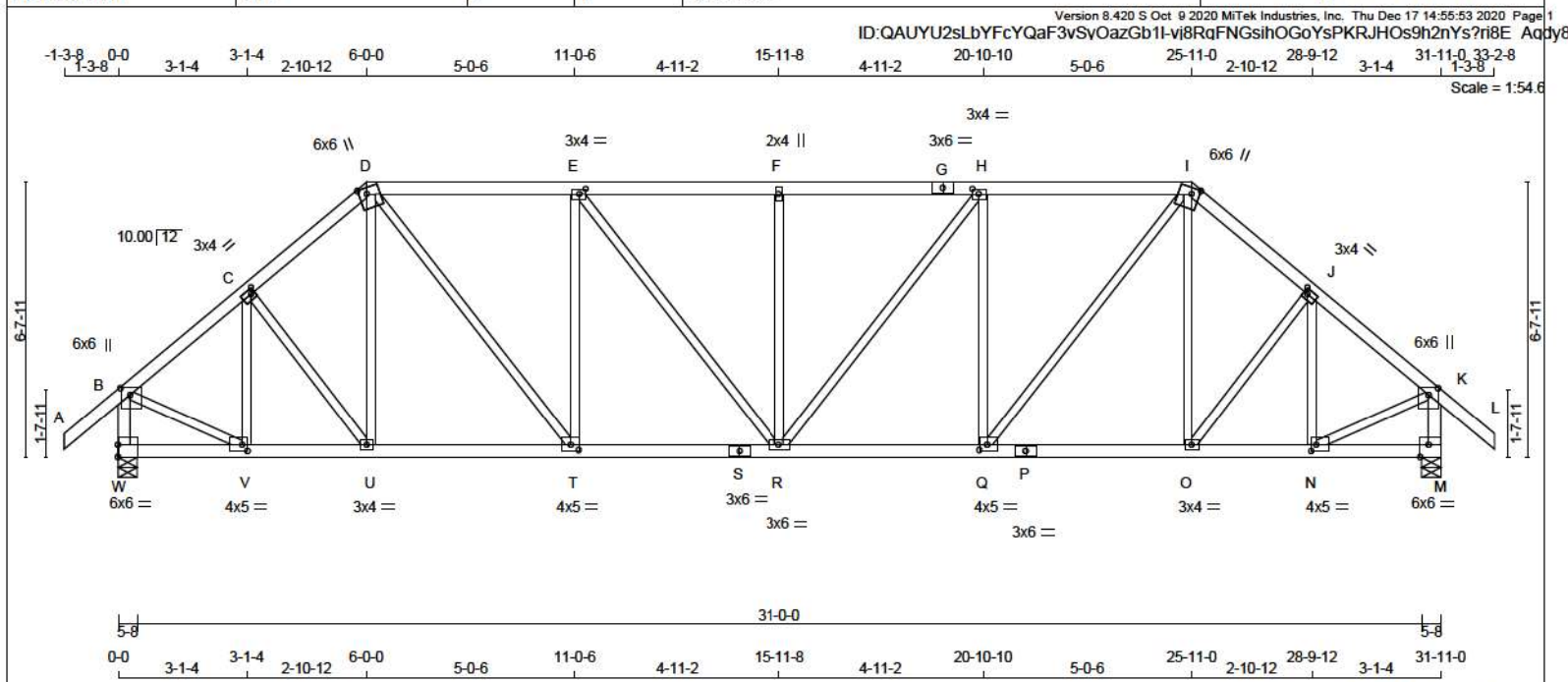
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-0
Sewage System			
Zoning			





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

PLATES (table is in inches)						
PLATES	JT TYPE	PLATES	W	LEN	Y	X
B	TMWV+p	MT20	6.0	6.0	2.00	2.75
C	TMWV-t	MT20	3.0	4.0	1.50	1.25
D	TTWV+m	MT20	6.0	6.0	1.75	2.25
E	TMWV-t	MT20	3.0	4.0	1.50	1.75
F	TMWV-w	MT20	2.0	3.0	1.00	1.00
G	TS-t	MT20	3.0	6.0		
H	TMWV-t	MT20	3.0	4.0	1.50	1.75
I	TTWV+m	MT20	6.0	6.0	1.75	2.25
J	TMWV-t	MT20	3.0	4.0	1.50	1.25
K	BMVV+p	MT20	6.0	6.0	2.00	2.75
N	BMVV-t	MT20	6.0	6.0	Edge 2.50	
O	BMVV-t	MT20	4.0	5.0	1.75	1.50
P	BMWV-t	MT20	3.0	4.0		
Q	BS-t	MT20	3.0	6.0		
R	BMWV-t	MT20	4.0	5.0	1.50	2.25
S	BMWVW-t	MT20	3.0	6.0		
T	BS-t	MT20	3.0	6.0		
U	TMWV-t	MT20	4.0	5.0	1.50	2.25
V	TMWV-t	MT20	3.0	4.0		
W	BMVV-t	MT20	4.0	5.0	1.75	1.50
V	BMVV-t	MT20	6.0	6.0	3.50	

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

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

BEARINGS			MAXIMUM FACTORED INPUT			REQRD
GROSS REACTION			GROSS REACTION			BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
W	2784	0	2784	0	0	5-8
M	2784	0	2784	0	0	5-8

UNFACTORED REACTIONS

1ST CASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
W	2053	1207 / 0	335 / 0	0 / 0	0 / 0	510 / 0	0 / 0
M	2053	1207 / 0	335 / 0	0 / 0	0 / 0	510 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.18 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MAX. FACTORED		FACTORED		VERT. LOAD		MAX. CS1 (LC)		MAX. FACTORED	
MEMB.	FORCE (LBS)		PLF	CS1 (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX. CS1 (LC)	
FR-TO		FROM TO		LENGTH	FR-TO				
A-B	0 / 55	-124.4	-124.4	0.17 (1)	10.00	V- C	-700 / 0	0.19 (1)	
B-C	-2467 / 0	-124.4	-124.4	0.25 (1)	4.17	C- U	0 / 178	0.04 (1)	
C-D	-2669 / 0	-124.4	-124.4	0.28 (1)	4.02	U- D	0 / 134	0.03 (3)	
D-E	-3024 / 0	-124.4	-124.4	0.64 (1)	3.36	D- T	0 / 1621	0.36 (1)	
E-F	-3323 / 0	-124.4	-124.4	0.67 (1)	3.18	T- E	1069 / 0	0.78 (1)	
F-G	-3323 / 0	-124.4	-124.4	0.67 (1)	3.18	E- R	0 / 474	0.11 (1)	
G-H	-3323 / 0	-124.4	-124.4	0.67 (1)	3.18	R- F	-564 / 0	0.41 (1)	
H-I	-3032 / 0	-124.4	-124.4	0.64 (1)	3.36	R- H	0 / 474	0.11 (1)	
I-J	-2669 / 0	-124.4	-124.4	0.28 (1)	4.02	Q- H	1069 / 0	0.78 (1)	
J-K	-2467 / 0	-124.4	-124.4	0.25 (1)	4.17	Q- I	0 / 1621	0.36 (1)	
K-L	0 / 55	-124.4	-124.4	0.17 (1)	10.00	O- I	0 / 134	0.03 (3)	
W-B	-2726 / 0	0.0	0.0	0.29 (1)	5.21	O- J	0 / 178	0.04 (1)	
M-K	-2726 / 0	0.0	0.0	0.29 (1)	5.21	N- J	-700 / 0	0.19 (1)	
W-V	0 / 0	-39.2	-39.2	0.07 (3)	10.00	B- V	0 / 2076	0.47 (1)	
V-U	0 / 1914	-39.2	-39.2	0.39 (1)	10.00	N- K	0 / 2076	0.47 (1)	
U-T	0 / 2023	-39.2	-39.2	0.43 (1)	10.00				
T-S	0 / 3032	-39.2	-39.2	0.59 (1)	10.00				
S-R	0 / 3032	-39.2	-39.2	0.59 (1)	10.00				
R-Q	0 / 3032	-39.2	-39.2	0.59 (1)	10.00				
Q-P	0 / 2023	-39.2	-39.2	0.43 (1)	10.00				
P-O	0 / 2023	-39.2	-39.2	0.43 (1)	10.00				
O-N	0 / 1914	-39.2	-39.2	0.39 (1)	10.00				
N-M	0 / 0	-39.2	-39.2	0.07 (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 (0.15")
ALLOWABLE DEFL.(TL)= L/360 (1.08")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.25")

CSI: TC=0.67/1.00 (E-F:1), BC=0.59/1.00 (Q-R:1),
WB=0.78/1.00 (H-Q:1), SSI=0.29/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

1000



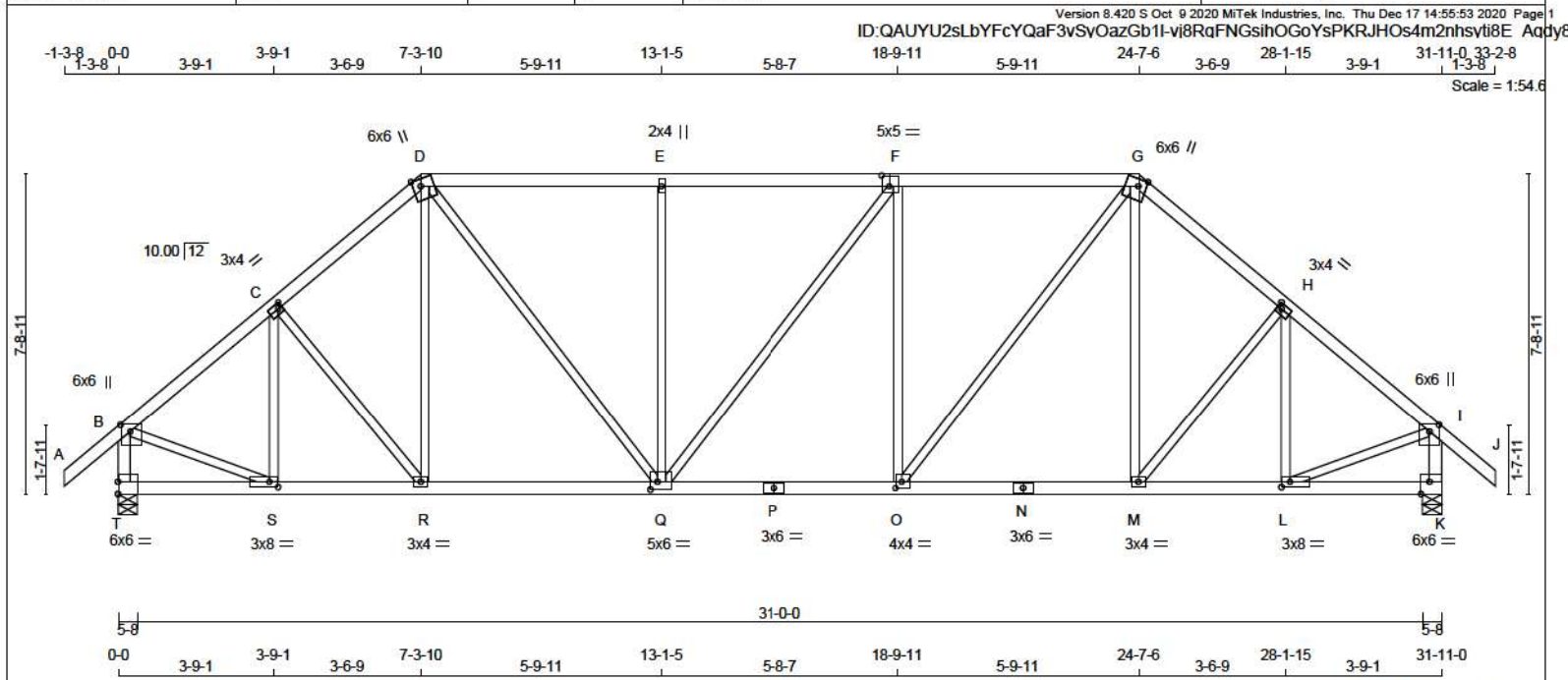
**READ ALL NOTES ON THIS PAGE AND ON
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-0
Sewage System			
Zoning			





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 - G	2x4	DRY No.2	SPF
G - J	2x4	DRY No.2	SPF
T - B	2x4	DRY No.2	SPF
C - 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)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	6.0	6.0	2.00	2.75
C	TMVW-t	MT20	3.0	4.0	1.50	1.25
D	TTVW+m	MT20	6.0	6.0	2.00	2.25
E	TMVW-t	MT20	2.0	4.0		
F	TSVW-t	MT20	5.0	5.0	3.00	2.25
G	TTVW+m	MT20	6.0	6.0	2.00	2.25
H	TMVW-t	MT20	3.0	4.0	1.50	1.25
I	TMVW+p	MT20	6.0	6.0	2.00	2.75
K	BMV-t	MT20	6.0	6.0	Edge 2.50	
L	BMVW-t	MT20	3.0	8.0	1.50	2.50
M	BMVW-t	MT20	3.0	4.0		
N	BS-t	MT20	3.0	6.0		
O	BMVW-t	MT20	4.0	4.0	1.75	1.75
P	BS-t	MT20	3.0	6.0		
Q	BMVWW-t	MT20	5.0	6.0	2.25	2.00
R	BMVW-t	MT20	3.0	4.0		
S	BMVW-t	MT20	3.0	8.0	1.50	2.50
T	BMV-t	MT20	6.0	6.0	3.50	

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT 2784	DOWN 2784	0	5-8
T	HORZ 0	HORZ 0	0	5-8
K	UPLIFT 2784	UPLIFT 0	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT	COMBINED 2053	SNOW 1207 / 0	LIVE 335 / 0
T	PERM. LIVE 0 / 0	WIND 0 / 0	DEAD 510 / 0
K	SOIL 2053	1207 / 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 = 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.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX UNBRACED (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX UNBRACED (LC)	MAX FACTORED FORCE (LBS)
FR-TO		FROM TO	LENGTH	FR-TO		FROM TO	LENGTH
A-B	0 / 55	-124.4 -124.4	0.17 (1)	10.00	S-C	-560 / 0	0.19 (1)
B-C	-2571 / 0	-124.4 -124.4	0.38 (1)	3.96	C-R	-7 / 15	0.00 (1)
C-D	-2639 / 0	-124.4 -124.4	0.38 (1)	3.91	R-D	0 / 244	0.06 (3)
D-E	-2764 / 0	-124.4 -124.4	0.65 (1)	2.62	D-Q	0 / 1291	0.29 (1)
E-F	-2794 / 0	-124.4 -124.4	0.94 (1)	2.92	Q-E	-877 / 0	0.97 (1)
F-G	-2729 / 0	-124.4 -124.4	0.99 (1)	2.81	Q-F	0 / 107	0.02 (1)
G-H	-2638 / 0	-124.4 -124.4	0.38 (1)	3.91	O-F	-704 / 0	0.78 (1)
H-I	-2571 / 0	-124.4 -124.4	0.38 (1)	3.96	O-G	0 / 1186	0.27 (1)
I-J	0 / 55	-124.4 -124.4	0.17 (1)	10.00	M-G	0 / 242	0.06 (3)
T-B	-2717 / 0	0.0	0.0 0.29 (1)	5.22	M-H	-8 / 15	0.00 (1)
K-I	-2717 / 0	0.0	0.0 0.29 (1)	5.22	L-H	-558 / 0	0.19 (1)
					B-S	0 / 2117	0.48 (1)
T-S	0 / 0	-39.2 -39.2	0.10 (3)	10.00	L-I	0 / 2117	0.48 (1)
S-R	0 / 1999	-39.2 -39.2	0.44 (1)	10.00			
R-Q	0 / 1998	-39.2 -39.2	0.45 (1)	10.00			
Q-P	0 / 2729	-39.2 -39.2	0.58 (1)	10.00			
P-O	0 / 2729	-39.2 -39.2	0.58 (1)	10.00			
O-N	0 / 1967	-39.2 -39.2	0.46 (1)	10.00			
N-M	0 / 1967	-39.2 -39.2	0.46 (1)	10.00			
M-L	0 / 2000	-39.2 -39.2	0.43 (1)	10.00			
L-K	0 / 0	-39.2 -39.2	0.10 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	PSF
	34.8	PSF
BOT CH.	LL	PSF
	10.5	PSF
	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=0.96/1.00 (F-G-1) , BC=0.58/1.00 (O-Q-1) , WB=0.67/1.00 (E-Q-1) , SSI=0.35/1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	650	371
	1747	788
	1967	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (H) (INPUT = 0.90)
JSI METAL = 0.92 (P) (INPUT = 1.00)



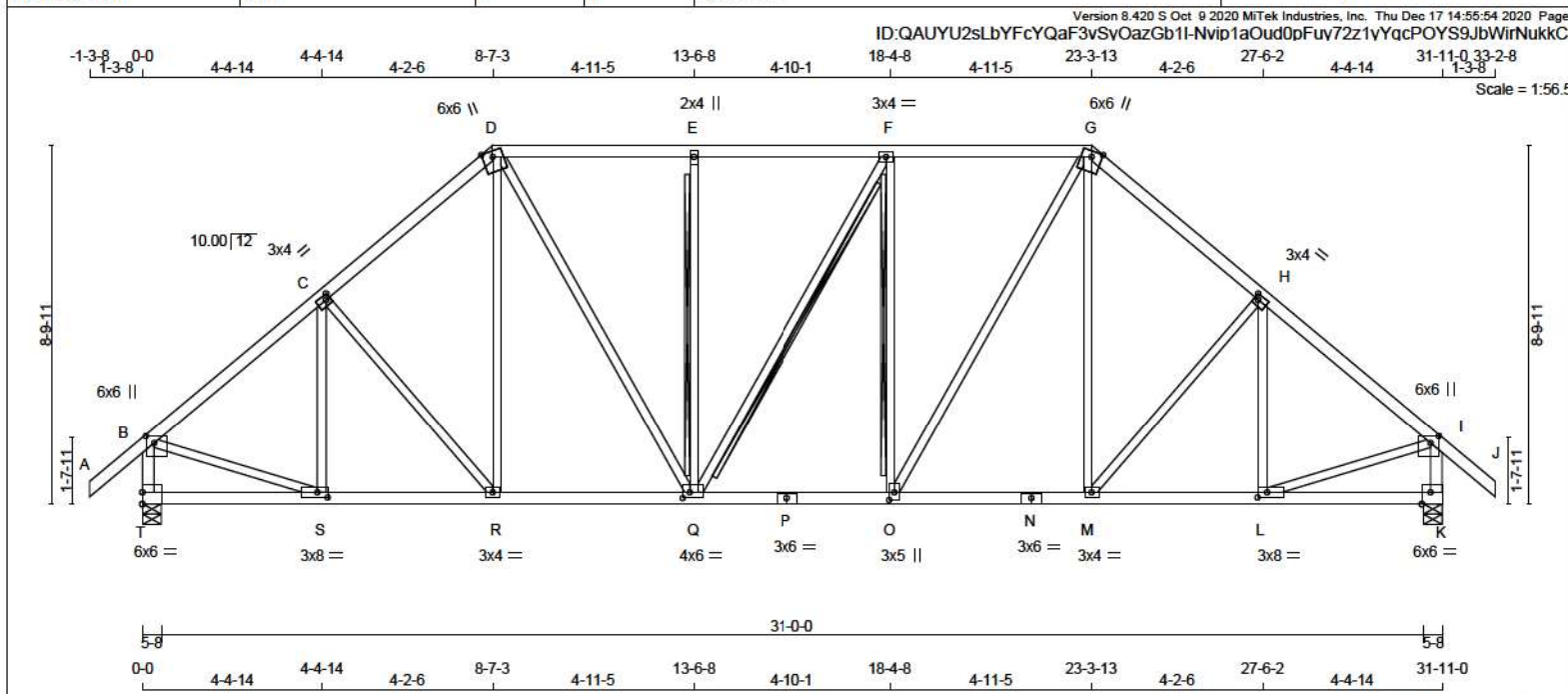
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Discipline	Reviewer	BCIN	Date
Building Code	H. Author	43236	2021-02-08
Sewage System			
Zoning			





LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
B - 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	2x3	DRY No.2	SPF
EXCEPT			

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMWW+p	MT20	6.0	6.0	2.00	2.50
C TMWW-t	MT20	3.0	4.0	1.50	1.25
D TTWW+m	MT20	6.0	6.0	Edge	
E TMWW+w	MT20	2.0	4.0		
F TMWW-t	MT20	3.0	4.0		
G TTWW+m	MT20	6.0	6.0	Edge	
H TMWW-t	MT20	3.0	4.0	1.50	1.25
I TMWW+p	MT20	6.0	6.0	2.00	2.50
K BMV1-t	MT20	6.0	6.0	Edge	2.50
L BMWW-t	MT20	3.0	8.0	1.50	2.75
M BMWW-t	MT20	3.0	4.0		
N BS-t	MT20	3.0	6.0		
O BMWW+t	MT20	3.0	5.0	2.25	1.50
P BS-t	MT20	3.0	6.0		
Q BMWW-t	MT20	4.0	6.0	1.75	2.00
R BMWW-t	MT20	3.0	4.0		
S BMWW-t	MT20	3.0	8.0	1.50	3.00
T BMV1-t	MT20	6.0	6.0	3.50	

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT VERT	2784	0	2784	0
T	2784	0	2784	0
K	2784	0	2784	0

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT COMBINED	1207	0	335
T	1207	0	335
K	1207	0	335

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.92 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 E-Q, F-Q, F-O

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (FT)
FR-TO				FR-TO			
A-B	0 / 55	-124.4	-124.4 0.17 (1)	10.00	S-C	-430 / 0	0.18 (1)
B-C	-2640 / 0	-124.4	-124.4 0.40 (1)	3.92	C-R	-184 / 0	0.15 (1)
C-D	-2570 / 0	-124.4	-124.4 0.38 (1)	3.97	R-D	0 / 343	0.08 (2)
D-E	-2431 / 0	-124.4	-124.4 0.41 (1)	4.02	D-Q	0 / 975	0.22 (1)
E-F	-2432 / 0	-124.4	-124.4 0.38 (1)	4.05	Q-E	-852 / 0	0.37 (1)
F-G	-2434 / 0	-124.4	-124.4 0.41 (1)	4.01	Q-F	-5 / 0	0.00 (1)
G-H	-2509 / 0	-124.4	-124.4 0.38 (1)	3.97	O-F	-854 / 0	0.37 (1)
H-I	-2640 / 0	-124.4	-124.4 0.40 (1)	3.92	O-G	0 / 980	0.22 (1)
I-J	0 / 55	-124.4	-124.4 0.17 (1)	10.00	M-G	0 / 341	0.08 (2)
T-B	-2710 / 0	0.0	0.0 0.29 (1)	5.23	M-H	-185 / 0	0.15 (1)
K-I	-2710 / 0	0.0	0.0 0.29 (1)	5.23	L-H	-429 / 0	0.18 (1)
					B-S	0 / 2147	0.48 (1)
					L-I	0 / 2147	0.48 (1)
T-S	0 / 0	-39.2	-39.2 0.13 (3)	10.00			
S-R	0 / 2058	-39.2	-39.2 0.43 (1)	10.00			
R-Q	0 / 1942	-39.2	-39.2 0.41 (1)	10.00			
Q-P	0 / 2434	-39.2	-39.2 0.49 (1)	10.00			
P-O	0 / 2434	-39.2	-39.2 0.49 (1)	10.00			
O-N	0 / 1941	-39.2	-39.2 0.41 (1)	10.00			
N-M	0 / 1941	-39.2	-39.2 0.41 (1)	10.00			
M-L	0 / 2058	-39.2	-39.2 0.42 (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 (1.06")
CALCULATED VERT. DEFL.(LL)= L/999 (0.11")
ALLOWABLE DEFL.(TL)= L/360 (1.06")
CALCULATED VERT. DEFL.(TL)= L/999 (0.18")

CSI: TC=0.41/1.00 (D-E-1), BC=0.49/1.00 (O-Q-1),

WB=0.49/1.00 (I-L-1), SSI=0.29/1.00 (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)
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 (S) (INPUT = 0.90)
JSI METAL = 0.80 (P) (INPUT = 1.00)



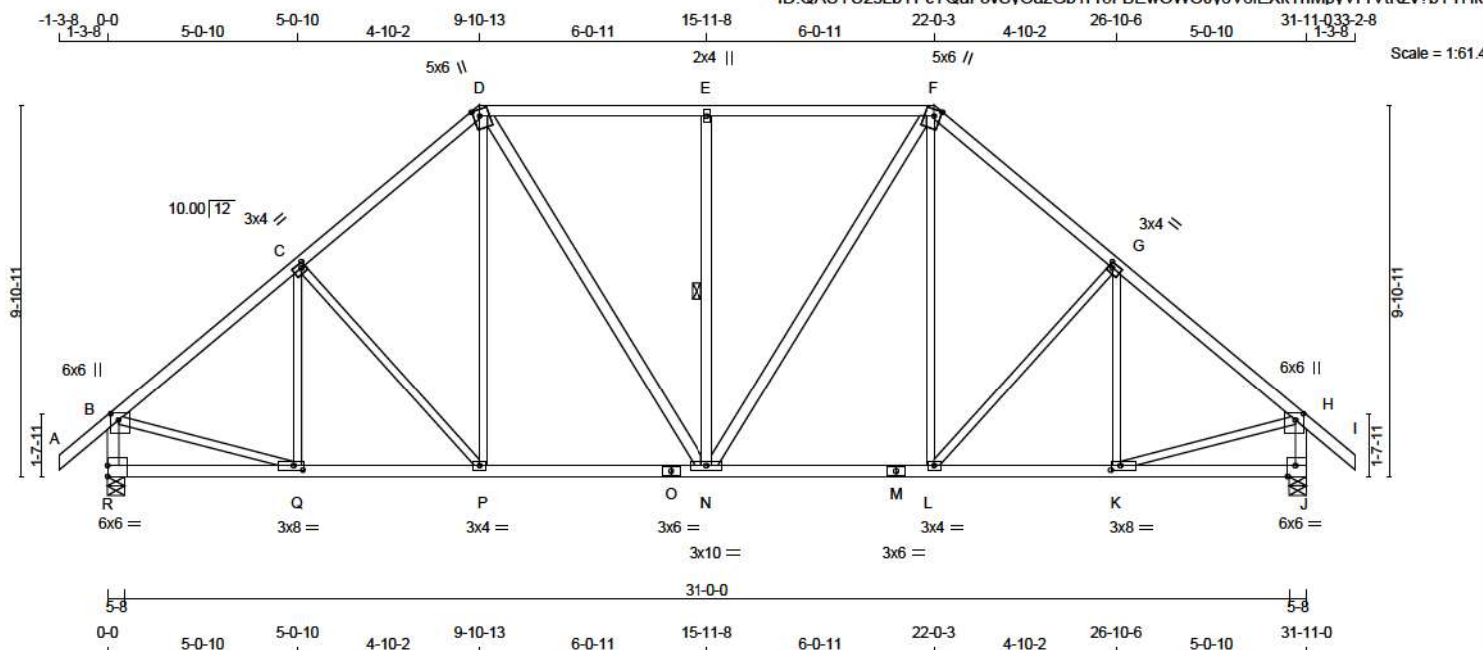
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Discipline	Reviewer	BCIN	Date
Building Code	H. Author	43236	2021-02-08
Sewage System			
Zoning			





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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	6.0	6.0	2.00	2.50
C TMWW-t	MT20	3.0	4.0	1.50	1.25
D TTWW+m	MT20	5.0	6.0	2.00	2.00
E TMW+w	MT20	2.0	4.0		
F TTWW+m	MT20	5.0	6.0	2.00	2.00
G TMWW-t	MT20	3.0	4.0	1.50	1.25
H TMVW+p	MT20	6.0	6.0	2.00	2.50
J BMV1-t	MT20	6.0	6.0	Edge	2.50
K BMWW-t	MT20	3.0	8.0	1.50	3.00
L BMWW-t	MT20	3.0	4.0		
M BS-t	MT20	3.0	6.0		
N BMWWW-t	MT20	3.0	10.0		
O BS-t	MT20	3.0	8.0		
P BMWW-t	MT20	3.0	4.0		
Q BMWW-t	MT20	3.0	8.0	1.50	3.00
R BMV1-t	MT20	6.0	6.0	3.50	

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT VERT	2784	2784	0	5-8
R	2784	2784	0	5-8
J	2784	2784	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS	
JT COMBINED	SNOW	LIVE	PERM. LIVE	WIND
R	2053	1207 / 0	335 / 0	0 / 0
J	2053	1207 / 0	335 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.72 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 = 115 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	FORCE (LBS)	FACTORED (PLF)	FACTORED LC1 MAX (LC)	MEMB.	FORCE (LBS)	FACTORED (LC)	MAX
FR-TO				FR-TO			
A-B	0 / 55	-124.4	-124.4 0.17 (1)	10.00	Q-C	-331 / 43	0.17 (1)
B-C	-2680 / 0	-124.4	-124.4 0.53 (1)	3.75	C-P	-338 / 0	0.37 (1)
C-D	-2486 / 0	-124.4	-124.4 0.50 (1)	3.90	P-D	0 / 474	0.11 (2)
D-E	-2241 / 0	-124.4	-124.4 0.67 (1)	3.72	D-N	0 / 689	0.11 (1)
E-F	-2241 / 0	-124.4	-124.4 0.67 (1)	3.72	N-E	-921 / 0	0.43 (1)
F-G	-2486 / 0	-124.4	-124.4 0.50 (1)	3.90	N-F	0 / 689	0.11 (1)
G-H	-2680 / 0	-124.4	-124.4 0.53 (1)	3.75	L-F	0 / 474	0.11 (2)
H-I	0 / 55	-124.4	-124.4 0.17 (1)	10.00	L-G	-338 / 0	0.37 (1)
R-B	-2701 / 0	0.0	0.0 0.29 (1)	5.23	K-G	-331 / 43	0.17 (1)
J-H	-2701 / 0	0.0	0.0 0.29 (1)	5.23	B-Q	0 / 2163	0.48 (1)
					K-H	0 / 2163	0.48 (1)
R-Q	0 / 0	-39.2	-39.2 0.18 (3)	10.00			
Q-P	0 / 2094	-39.2	-39.2 0.46 (1)	10.00			
P-O	0 / 1873	-39.2	-39.2 0.47 (2)	10.00			
O-N	0 / 1873	-39.2	-39.2 0.47 (2)	10.00			
N-M	0 / 1873	-39.2	-39.2 0.47 (2)	10.00			
M-L	0 / 1873	-39.2	-39.2 0.47 (2)	10.00			
L-K	0 / 2094	-39.2	-39.2 0.46 (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 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 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.17")

CSI: TC=0.67/1.00 (D-E-1), BC=0.47/1.00 (L-N-2),
WB=0.49/1.00 (B-Q-1), SSI=0.37/1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (K) (INPUT = 0.90)
JSI METAL = 0.58 (O) (INPUT = 1.00)

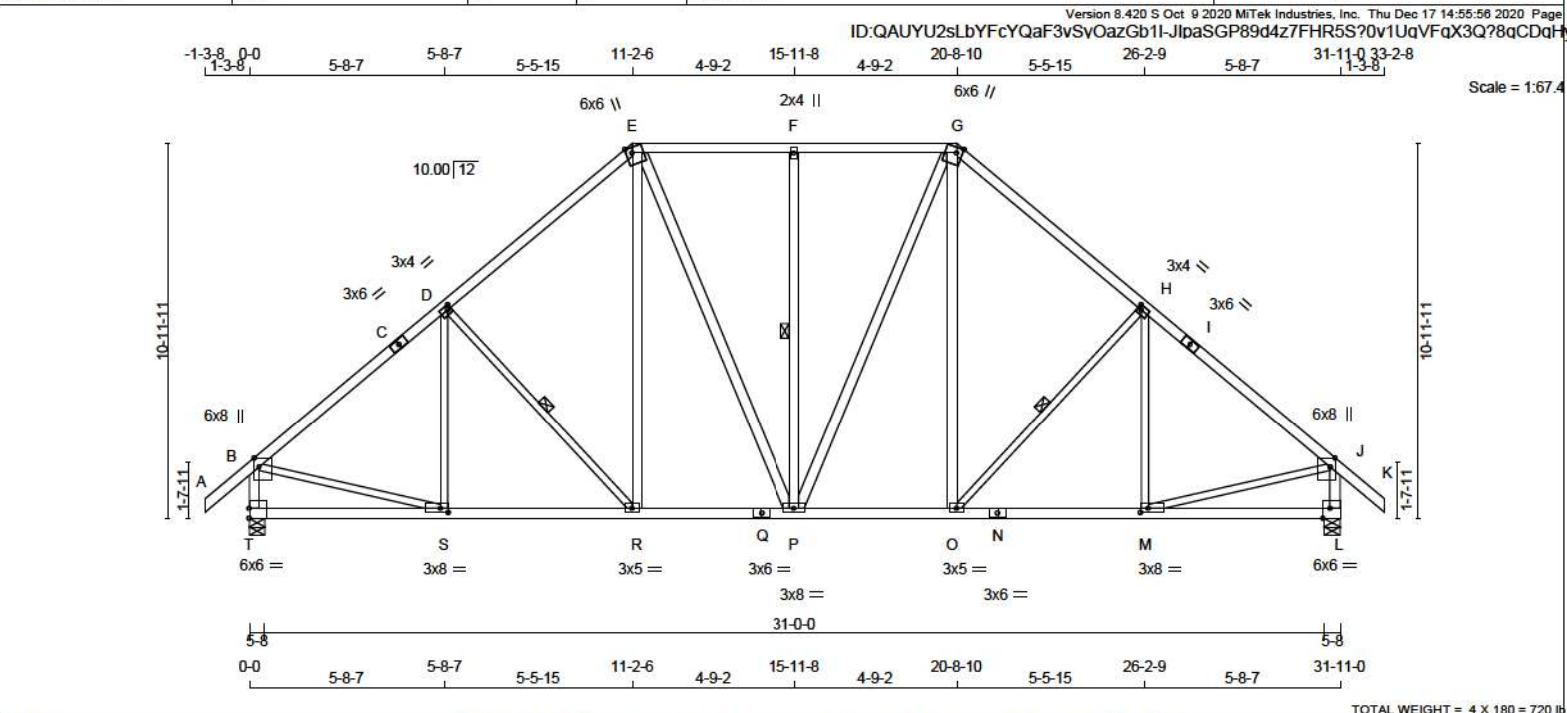


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Discipline	Reviewer	BCIN	Date
Building Code	H. Author	43236	2021-02-08
Sewage System			
Zoning			



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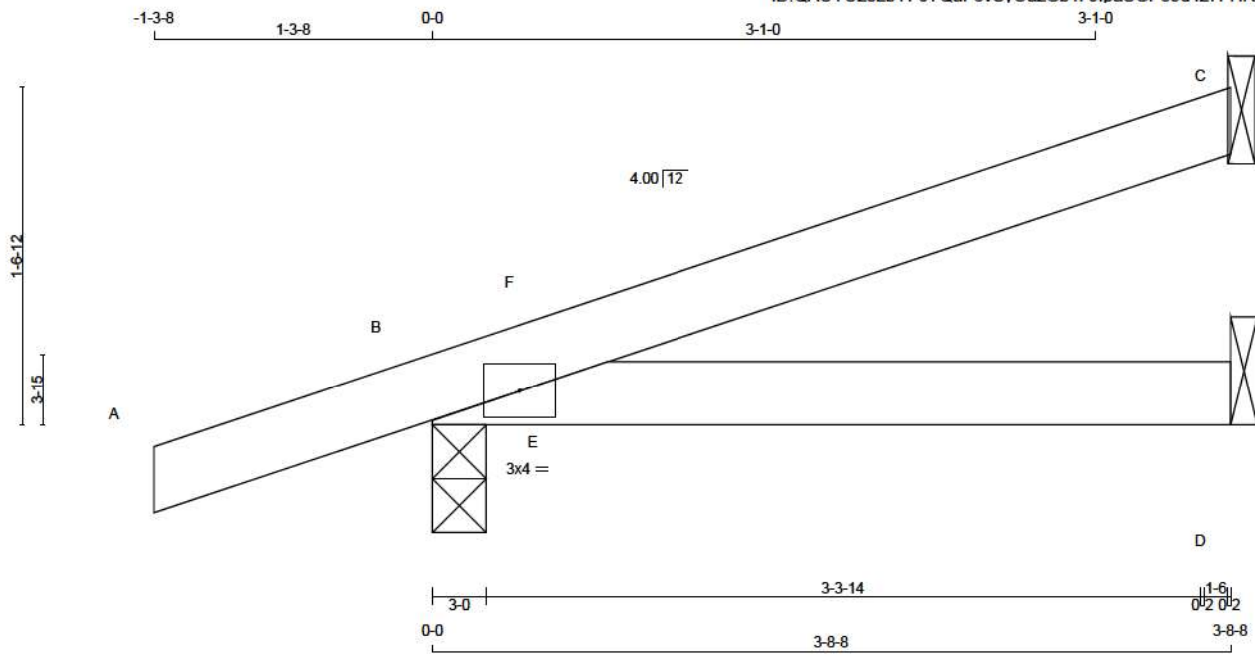


LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - C 2x4 DRY No.2 SPF C - E 2x4 DRY No.2 SPF E - G 2x4 DRY No.2 SPF G - I 2x4 DRY No.2 SPF I - K 2x4 DRY No.2 SPF T - B 2x4 DRY No.2 SPF L - J 2x4 DRY No.2 SPF T - Q 2x4 DRY No.2 SPF Q - N 2x4 DRY No.2 SPF N - L 2x4 DRY No.2 SPF ALL WEBS 2x4 DRY No.2 SPF EXCEPT S - D 2x3 DRY No.2 SPF D - R 2x3 DRY No.2 SPF O - H 2x3 DRY No.2 SPF M - H 2x3 DRY No.2 SPF B - S 2x3 DRY No.2 SPF M - J 2x3 DRY No.2 SPF DRY: SEASONED LUMBER.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION JT VERT 2820 T 2820 L 2820 MAXIMUM FACTORED GROSS REACTION DOWN 2820 HORZ 0 0 INPUT BRG UPLIFT IN-SX 5-8 5-8 5-8 REQRD BRG IN-SX 5-8 5-8 5-8 UNFACTORED REACTIONS 1ST LCASE MAX/MIN COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL T 2082 1207 / 0 335 / 0 0 / 0 539 / 0 0 / 0 L 2082 1207 / 0 335 / 0 0 / 0 539 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) T, L BRACING FOR SECTION E-G, MAX. PURLIN SPACING = 2.00 FT. FOR OTHER SECTIONS, TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.50 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 D-R, F-P, H-O. DBS = 20-0-0. CBF = 95 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 MEMB. MAX. FORCE (LBS) FACTORED VERT. LOAD (PLF) MAX. UNBRACED LENGTH (LC) FROM TO FR-TO FROM TO A-B 0 / 55 -124.4 -124.4 0.17 (1) 10.00 S-D -242 / 109 0.16 (1) B-C -2746 / 0 -124.4 -124.4 0.70 (1) 3.50 D-R -485 / 0 0.22 (1) C-D -2746 / 0 -124.4 -124.4 0.70 (1) 3.50 R-E 0 / 555 0.09 (1) D-E -2429 / 0 -124.4 -124.4 0.64 (1) 3.75 E-P 0 / 509 0.08 (1) E-F -2035 / 0 -131.9 -131.9 0.44 (1) 2.00 P-F -758 / 0 0.47 (1) F-G -2035 / 0 -131.9 -131.9 0.44 (1) 2.00 P-G 0 / 509 0.08 (1) G-H -2429 / 0 -124.4 -124.4 0.64 (1) 3.75 O-G 0 / 555 0.09 (1) H-I -2746 / 0 -124.4 -124.4 0.70 (1) 3.50 O-H -485 / 0 0.22 (1) I-J -2746 / 0 -124.4 -124.4 0.70 (1) 3.50 M-H -242 / 109 0.16 (1) J-K 0 / 55 -124.4 -124.4 0.17 (1) 10.00 B-S 0 / 2206 0.50 (1) T-B -2729 / 0 0.0 0.0 0.29 (1) 5.21 M-J 0 / 2206 0.50 (1) L-J -2729 / 0 0.0 0.0 0.29 (1) 5.21 T-S 0 / 0 -39.2 -39.2 0.25 (3) 10.00 S-R 0 / 2151 -39.2 -39.2 0.51 (2) 10.00 R-Q 0 / 1828 -39.2 -39.2 0.40 (1) 10.00 Q-P 0 / 1828 -39.2 -39.2 0.40 (1) 10.00 P-O 0 / 1828 -39.2 -39.2 0.40 (1) 10.00 O-N 0 / 2151 -39.2 -39.2 0.51 (2) 10.00 N-M 0 / 2151 -39.2 -39.2 0.51 (2) 10.00 M-L 0 / 0 -39.2 -39.2 0.25 (3) 10.00 WEBS MEMB. MAX. FORCE (LBS) FACTORED VERT. LOAD (PLF) MAX. UNBRACED LENGTH (LC) FROM TO FR-TO FROM TO S-D -242 / 109 0.16 (1) D-R -485 / 0 0.22 (1) R-E 0 / 555 0.09 (1) E-P 0 / 509 0.08 (1) P-F -758 / 0 0.47 (1) P-G 0 / 509 0.08 (1) O-G 0 / 555 0.09 (1) O-H -485 / 0 0.22 (1) M-H -242 / 109 0.16 (1) B-S 0 / 2206 0.50 (1) M-J 0 / 2206 0.50 (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 LOADING IN FLAT SECTION BASED ON PIGGYBACK TRUSS WITH SLOPES OF 6.00/12 AND -6.00/12 AND RESPECTIVE HEEL HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL DEAD LOAD OF 3.0 P.S.F. 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 (0.09") ALLOWABLE DEFL.(TL)= L/360 (1.06") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.15") CSI: TC=0.70/1.0 (H-J-1) , BC=0.51/1.00 (M-O-2) , WB=0.50/1.00 (J-M-1) , SSI=0.30/1.00 (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= 0.89 (J) (INPUT = 0.90) JSI METAL = 0.66 (N) (INPUT = 1.00)				TOTAL WEIGHT = 4 X 180 = 720 lb			
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Discipline	Reviewer	BCIN	Date
Building Code	H. Author	43236	2021-02-08
Sewage System			
Zoning			



TOTAL WEIGHT = 6 X 10 = 62 lb

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
C	203	0	203	0	1-8	1-8
B	470	0	470	0	3-0	1-8
D	101	0	106	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	COMBINED	1ST CASE		MAX / MIN COMPONENT REACTIONS		WIND	DEAD	SOIL
		SNOW	LIVE	PERM. LIVE	WIND			
C	142	107 / 0	6 / 0	0 / 0	0 / 0	29 / 0	0 / 0	0 / 0
B	339	222 / 0	39 / 0	0 / 0	0 / 0	78 / 0	0 / 0	0 / 0
D	83	22 / 0	33 / 0	0 / 0	0 / 0	28 / 0	0 / 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 = 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 L1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED L1 MAX. (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 25	-124.4 -124.4	0.17 (5)	10.00	E-F	-171 / 53	0.00 (1)
B-F	-27 / 0	-124.4 -124.4	0.07 (3)	6.25			
F-C	0 / 5	-124.4 -124.4	0.22 (1)	10.00			
B-E	0 / 0	-39.2 -39.2	0.17 (1)	10.00			
E-D	0 / 0	-39.2 -39.2	0.18 (1)	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

(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 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.22/1.00 (C-F-1), BC=0.18/1.00 (D-E-1),
WB=0.00/1.00 (E-F-1), SSI=0.17/1.00 (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

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= 0.28 (B) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)



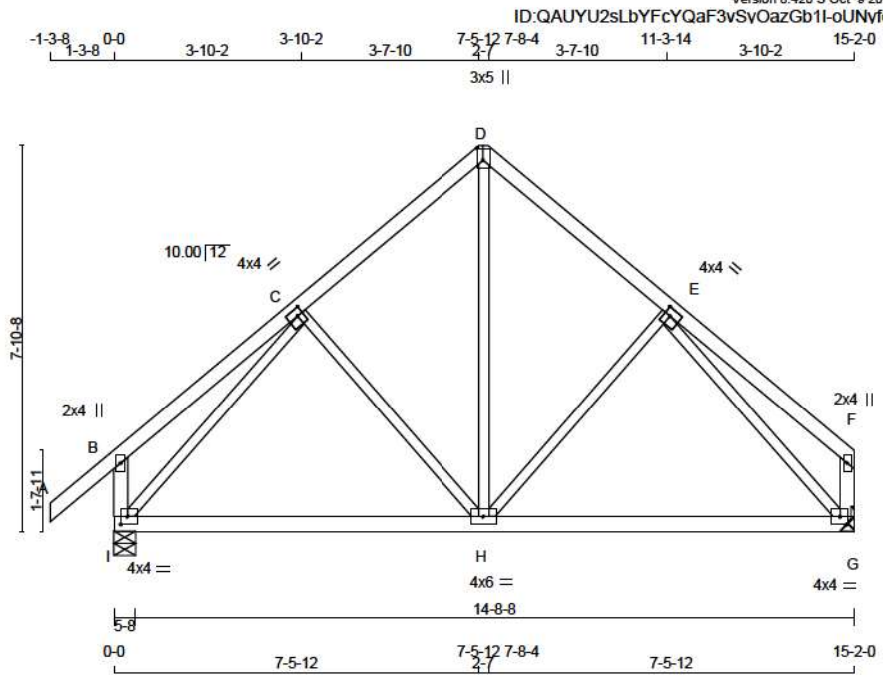
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Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			





LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
I - B	2x4	DRY	No.2	SPF
G - F	2x4	DRY	No.2	SPF
I - G	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	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	4.0	4.0	1.75 1.50
D	TTW+p	MT20	3.0	5.0	3.00 1.50
E	TMWW-l	MT20	4.0	4.0	1.75 1.50
F	TMV+p	MT20	2.0	4.0	
G	BMVW1-l	MT20	4.0	4.0	2.00 1.75
H	BMWW-l	MT20	4.0	6.0	
I	BMVW1-l	MT20	4.0	4.0	2.00 1.75

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQRD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
I	1414	0	1414	0	5-8
G	1241	0	1241	0	MECHANICAL

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

UNFACTORED REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
I	1038	624 / 0	159 / 0	0 / 0	0 / 0	254 / 0
G	919	528 / 0	159 / 0	0 / 0	0 / 0	232 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX. CSI (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 55	-124.4	-124.4 0.17 (1)	10.00	C-H	-229 / 11	0.14 (1)
B-C	0 / 36	-124.4	-124.4 0.29 (1)	10.00	H-D	0 / 713	0.16 (1)
C-D	-884 / 0	-124.4	-124.4 0.23 (1)	6.25	H-E	-229 / 12	0.13 (1)
D-E	-884 / 0	-124.4	-124.4 0.23 (1)	6.25	I-C	-1247 / 0	0.69 (1)
E-F	0 / 36	-124.4	-124.4 0.29 (1)	10.00	E-G	-1247 / 0	0.69 (1)
I-B	-348 / 0	0.0	0.0 0.04 (1)	7.81			
G-F	-175 / 0	0.0	0.0 0.02 (1)	7.81			
I-H	0 / 804	-39.2	-39.2 0.58 (3)	10.00			
H-G	0 / 804	-39.2	-39.2 0.58 (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 (0.51")
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (0.51")
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.17")

CSI: TC=0.29/1.00 (E-F:1) , BC=0.58/1.00 (G-H:3) ,
WB=0.69/1.00 (E-G:1) , SSI=0.20/1.00 (H-I:3)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (G) (INPUT = 0.90)
JSI METAL = 0.42 (E) (INPUT = 1.00)



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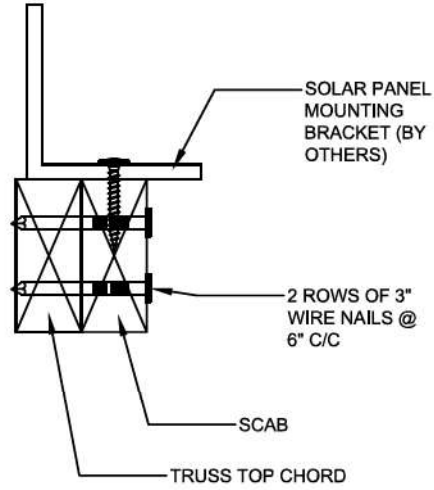
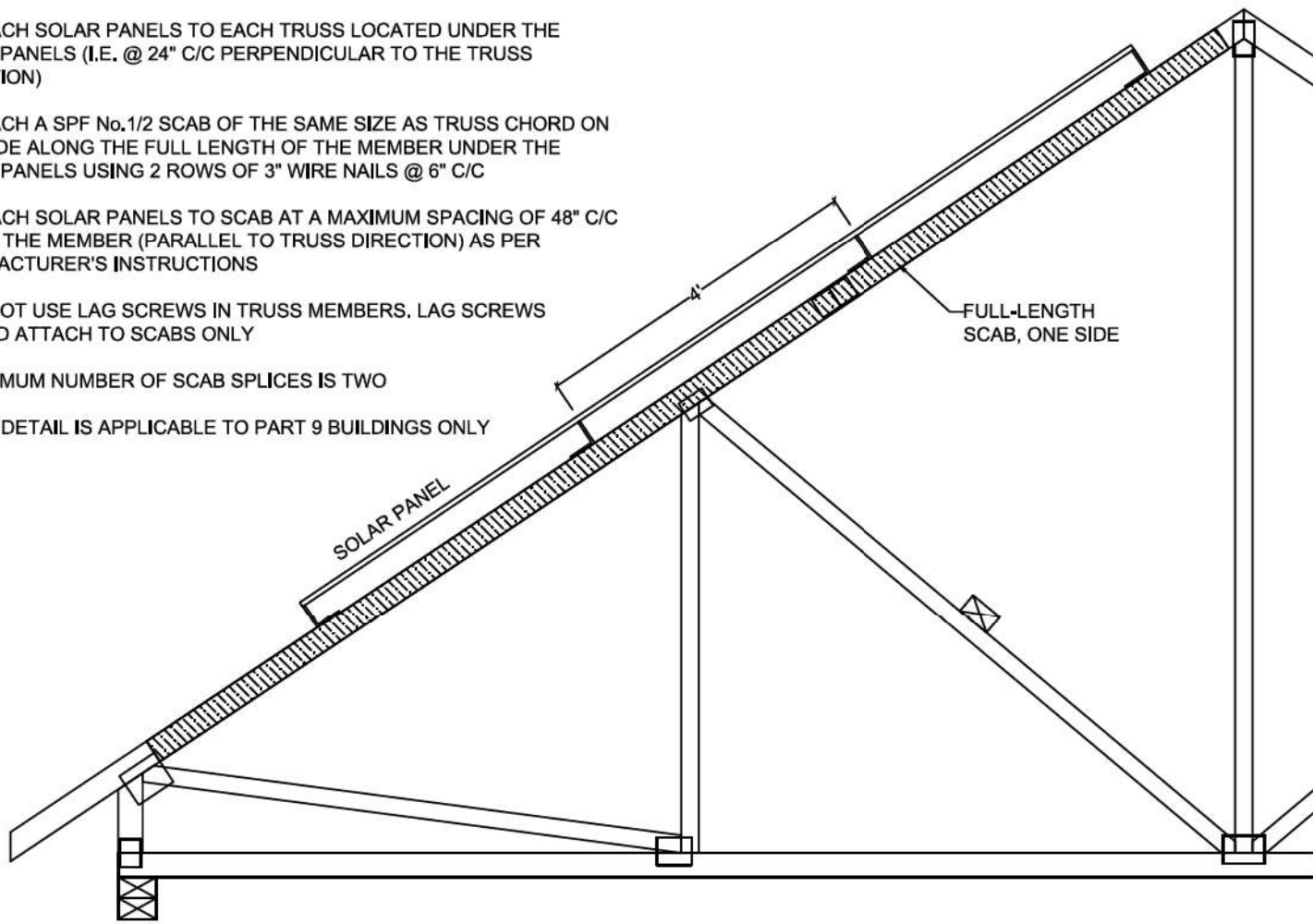


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Building Code	H. Author	43236	2021-02-08
Sewage System			
Zoning			



- 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

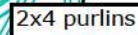


Detail for Installation of Solar Panels - Scab Method



NE1220-108
GREENPARK - TRINAR
HALL - GLENWAY 2A ELE3



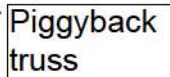


For part 9
trusses no
H3 ties
required.

Main truss

For drag trusses:
Piggyback trusses attached directly on top of the flat or sloped roof trusses using LTP4 plates on alternating sides with spacing as per truss drawing.

2x4 blocking between top chords of main roof trusses must be placed @ 24" C/C and attached to the intersecting top chord member using (2) 3-1/4" common wire nails at each end

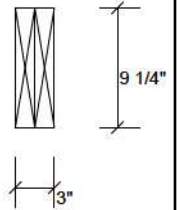
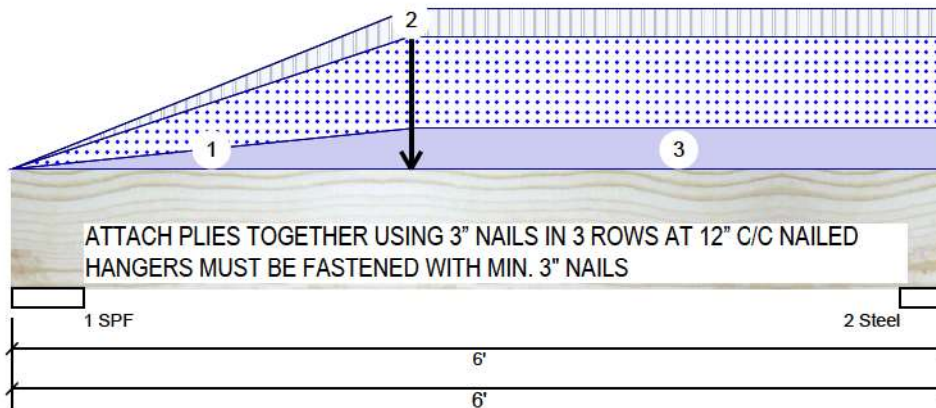


2x4 blocking

Main truss

B1 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Roof (Residential)
Plies:	2	Slope:	0/12
Moisture Condition:	Dry	Design Method:	LSD
Deflection LL:	360	Building Code:	NBCC 2015 / OBC 2012
Deflection TL:	360	Load Sharing:	No
Importance:	Normal - II	Deck:	Not Checked
General Load		Vibration:	Not Checked
Floor Live:	10.5 PSF		
Dead:	15.3 PSF		
Snow:	34.8 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind
1	228	331	747	0
2	293	426	965	0

Bearings and Factored Reactions

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.500"	17%	413 / 1349	1762	L	1.25D+1.5S +L
2 - Steel	3.500"	35%	532 / 1740	2272	L	1.25D+1.5S +L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3639 ft-lb	2'6 3/4"	6039 ft-lb	0.603 (60%)	1.25D+1.5S +L	L
Unbraced	3639 ft-lb	2'6 3/4"	5183 ft-lb	0.702 (70%)	1.25D+1.5S +L	L
Shear	2197 lb	1'2"	3984 lb	0.551 (55%)	1.25D+1.5S +L	L
LL Defl inch	0.031 (L/2078)	3' 11/16"	0.179 (L/360)	0.170 (17%)	S+0.5L	L
TL Defl inch	0.043 (L/1501)	3' 5/8"	0.179 (L/360)	0.240 (24%)	D+S+0.5L	L

Design Notes

- Girders are designed to be supported on the bottom edge only.
- Multiple plies must be fastened together as per manufacturer's details.
- Top braced at bearings.
- Bottom braced at bearings.
- Lateral slenderness ratio based on single ply width.



ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tapered Start	0-0-0	2-0-0	Far Face	0 PSF	0 PSF	0 PSF	0 PSF	
	End	2-6-12	2-0-0		15.3 PSF	10.5 PSF	34.8 PSF	0 PSF	
2	Point	2-6-12		Far Face	318 lb	221 lb	715 lb	0 lb	
3	Part. Uniform	2-6-12 to 6-0-0	7-7-0	Far Face	15.3 PSF	10.5 PSF	34.8 PSF	0 PSF	

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. Author	43236	2021-02-08
Sewage System			
Zoning			

This design is valid until 10/10/2023

Kott Group
14 Anderson Blvd., On
L4A7X4
905-642-4400



NE1220-108
GREENPARK - TRINAR HALL
- GLENWAY 2A ELE 3

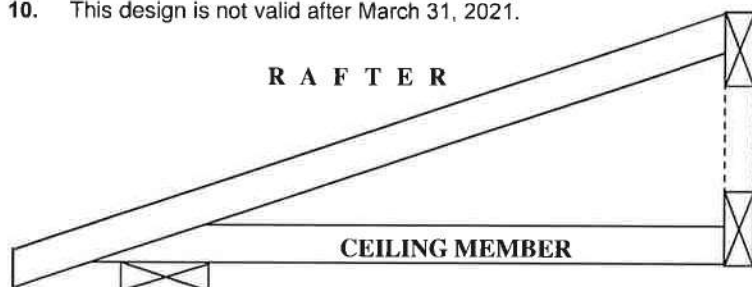
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B97791H1

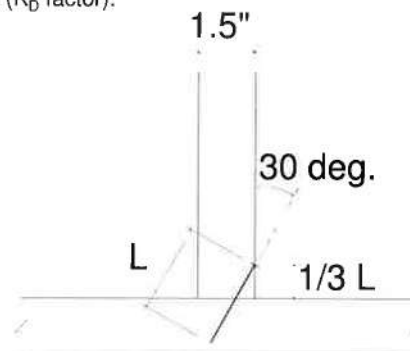
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL LATERAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	132	147
	3.25	0.144	132	147
	3.50	0.160	159	177
COMMON SPIRAL	3.00	0.122	97	108
	3.25	0.122	97	108
	3.50	0.152	145	162

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



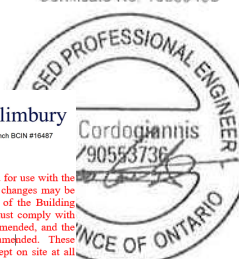
Town of
East Gwillimbury
Building Standards Branch BCIN #15487

December

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

PEO
Certificate No. 10889485



NE1220-108
GREENPARK - TRINAR HALL
- GLENWAY 2A ELE 3

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

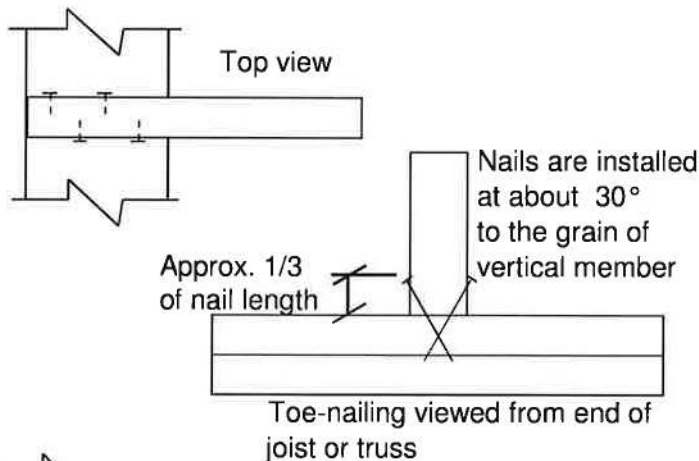
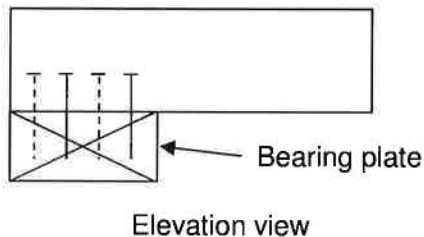
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52
COMMON SPIRAL	3.00	0.122	26	36
	3.25	0.122	28	40
	3.50	0.152	36	50

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

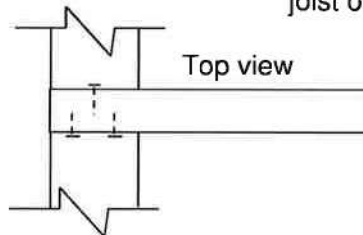
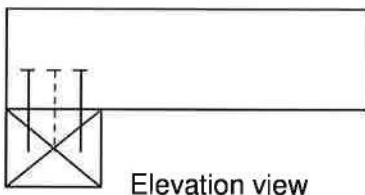
NOTES:

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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Dec

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

PEO
Certificate No. 10889485

