

ENGINEERING NOTE PAGE (ENP-1)
PLEASE READ PRIOR TO INSTALLATION

NE0818-072

GREENPARK - MINNISALE

HOMES - MILLWOOD 3 ELE 2

RESPONSIBILITIES

THIS DESIGN IS FOR AN INDIVIDUAL BUILDING COMPONENT AND HAS BEEN BASED ON INFORMATION PROVIDED BY THE DESIGN OFFICE OF KOTT LUMBER. 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 LUMBER 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.

Layout based on plans provided by
VA3 DESIGN
Dated May 30/18

THIS CERTIFICATION IS FOR THE ENGINEERING REVIEW OF STRUCTURAL COMPONENTS SHOWN ON THIS DRAWING AND IS LIMITED TO THE COMPONENTS SUPPLIED BY KOTT LUMBER FOR THE LOADS AND CONDITIONS SHOWN ON THE CALCULATION PAGE OF EACH COMPONENT. THE PLACEMENT OF THESE COMPONENTS ON THIS LAYOUT IS SHOWN FOR REFERENCE ONLY. ROOF TRUSSES MUST BE INSTALLED ACCORDING TO MANUFACTURER'S GUIDELINES AT 24" C/C UNLESS NOTED OTHERWISE. CONVENTIONAL FRAMING SHOWN ON THE LAYOUT MUST BE DESIGNED AND APPROVED BY THE PROJECT ENGINEER. TEMPORARY AND PERMANENT BRACINGS OF THE ROOF AND BUILDING ARE THE RESPONSIBILITY OF THE PROJECT ENGINEER AND TO CONFORM TO BCSI GUIDELINES.

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.



BY OTHERS

BY OTHERS

ROOF TRUSS LAYOUT



CONVENTIONAL
FRAMING BY OTHERS

HANGER LEGEND

X - LUS24
- HGUS26

O - LJS26DS
% - HGUS26-2

DESIGN CRITERIA
SPECIFIED LOADS
TOP CH LL = 23.3 psf
DL = 3.0 psf
BOT CH LL = 0.0 psf
DL = 7.0 psf
TOTAL LOAD = 33.3 psf

SPACING @ 24" CENTERS.
THIS TRUSS SYSTEM IS DESIGN FOR RESIDENTIAL
OR SMALL BUILDING REQUIREMENTS OF
PART 9, NBC 2010

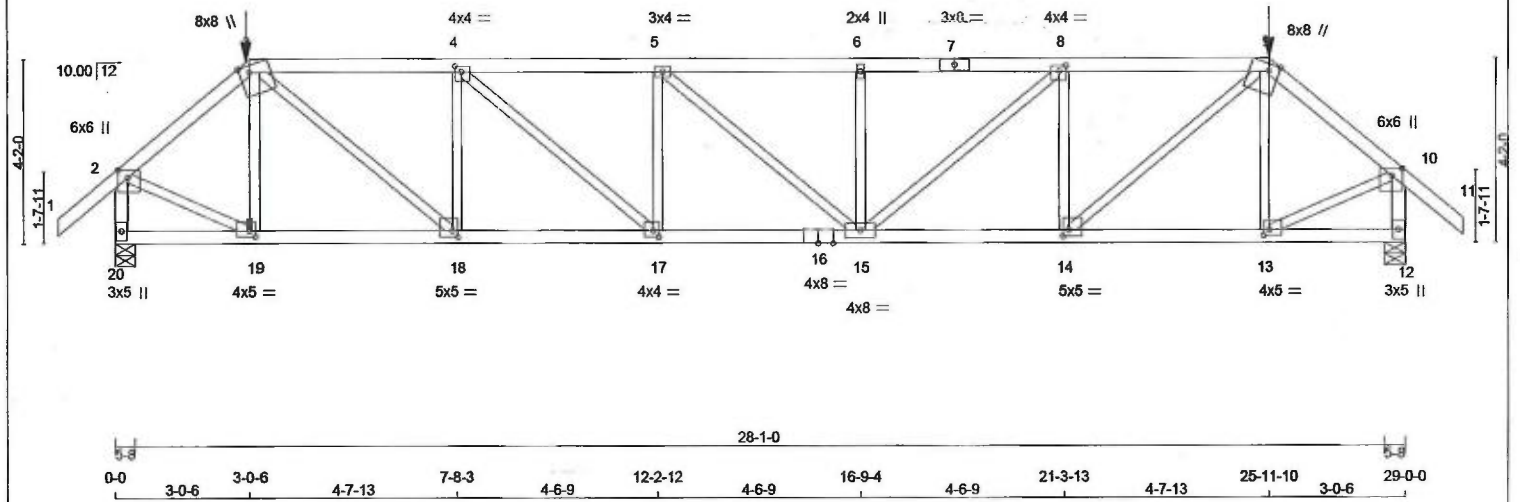
THIS DESIGN COMPLIES WITH PART 9 OF OBC 2012,
BCBC 2012, ABC 2012, CSA 086-09, TPIC 2011

ALLOWABLE DEFLECTION OF EACH COMPONENT = L/360

SIZE AND LOCATION OF CONVENTIONAL FRAMING IS APPROXIMATE. ALL AREAS MAY NOT BE SHOWN. REFER TO ARCHITECTURAL PLANS FOR DETAILS.

ALL CONVENTIONAL FRAMING TO CONFORM WITH PART 9 OF THE O.B.C RAFTER THAT CROSS MEET OVER TRUSSES TO BE 2X4 SPF @ 24" O/C WITH 2X4 VERT POST TO THE TRUSS BELOW EA CROSS PT. VERT POS. THAN 6' TO HAVE A LATERAL BRACING SO THAT THE DISTANCE BETEN PT & VERT ROWS OF BRACING DOES NOT EXCEED 6'

Model:	MILLWOOD 3 EL 2
Customer:	GREENPARK
Project:	MINNISALE HOMES
Location:	BRAMPTON
Drawn By:	DM
Date:	6/25/2018



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
3 - 7	2x4	DRY	No.2
7 - 9	2x4	DRY	No.2
9 - 11	2x4	DRY	No.2
20 - 2	2x4	DRY	No.2
12 - 10	2x4	DRY	No.2
20 - 16	2x4	DRY	No.2
16 - 12	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
2 TMVW+p	MT20	6.0	6.0	2.00	2.75
3 TTWW+m	MT20	8.0	8.0	Edge	2.75
4 TMWW-t	MT20	4.0	4.0	1.50	1.75
5 TMWW-t	MT20	3.0	4.0		
6 TMW+w	MT20	2.0	4.0		
7 TS-t	MT20	3.0	8.0		
8 TMWW-t	MT20	4.0	4.0	1.50	1.75
9 TTWW+m	MT20	8.0	8.0	Edge	2.75
10 TMVW+p	MT20	6.0	6.0	2.00	2.75
12 BMV1+p	MT20	3.0	5.0		
13 BMWW-t	MT20	4.0	5.0	1.50	1.50
14 BMWW-t	MT20	5.0	5.0	1.75	1.50
16 BS-t	MT20	4.0	8.0		
17 BMWW-t	MT20	4.0	4.0	1.75	1.50
18 BMWW-t	MT20	5.0	5.0	1.75	1.50
19 BMWW-t	MT20	4.0	5.0	1.50	1.50
20 BMV1+p	MT20	3.0	5.0		

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

HANGERS NOTES



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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	IN-SX	IN-SX	IN-SX	IN-SX
20	2669	0	2669	0	0	5-8	5-8	5-8
12	2669	0	2669	0	0	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
20	1871	1319 / 0	0 / 0	0 / 0	0 / 0	553 / 0	0 / 0
12	1871	1319 / 0	0 / 0	0 / 0	0 / 0	553 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 20, 12

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.20 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		MAX. UNBRACED LENGTH	MEMB.	FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (LBS)	VERT. LOAD (LBS)	MAX. FORCE (LBS)			MAX. FORCE (LBS)	MAX. FORCE (LBS)
FR-TO						FR-TO		
1-2	0 / 34	-77.4	-77.4	0.12 (1)	10.00	19-3	-648 / 0	0.18 (1)
2-3	-2507 / 0	-77.4	-77.4	0.23 (1)	4.12	3-18	0 / 2624	0.65 (1)
3-4	-3922 / 0	-145.9	-145.9	0.80 (1)	2.71	18-4	-1529 / 0	0.42 (1)
4-5	-4853 / 0	-145.9	-145.9	0.96 (1)	2.21	4-17	0 / 1224	0.30 (1)
5-6	-4850 / 0	-145.9	-145.9	0.80 (1)	2.49	17-5	-643 / 0	0.18 (1)
6-7	-4850 / 0	-145.9	-145.9	0.96 (1)	2.20	5-15	-3 / 0	0.00 (1)
7-8	-4850 / 0	-145.9	-145.9	0.96 (1)	2.20	15-6	-642 / 0	0.18 (1)
8-9	-3922 / 0	-145.9	-145.9	0.80 (1)	2.71	15-8	0 / 1219	0.30 (1)
9-10	-2507 / 0	-77.4	-77.4	0.23 (1)	4.12	14-8	-1528 / 0	0.42 (1)
10-11	0 / 34	-77.4	-77.4	0.12 (1)	10.00	14-9	0 / 2625	0.65 (1)
20-2	-2635 / 0	0.0	0.0	0.31 (1)	5.23	13-9	-648 / 0	0.18 (1)
12-10	-2635 / 0	0.0	0.0	0.31 (1)	5.23	2-19	0 / 2078	0.51 (1)
						13-10	0 / 2078	0.51 (1)
20-19	0 / 0	-33.0	-33.0	0.13 (4)	10.00			
19-18	0 / 1902	-33.0	-33.0	0.42 (1)	10.00			
18-17	0 / 3922	-33.0	-33.0	0.77 (1)	10.00			
17-16	0 / 4853	-33.0	-33.0	0.94 (1)	10.00			
16-15	0 / 4853	-33.0	-33.0	0.94 (1)	10.00			
15-14	0 / 3923	-33.0	-33.0	0.77 (1)	10.00			
14-13	0 / 1901	-33.0	-33.0	0.42 (1)	10.00			
13-12	0 / 0	-33.0	-33.0	0.13 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
3	3-0-6	-176	-176	—	FRONT	VERT	TOTAL
9	25-11-10	-176	-176	—	FRONT	VERT	TOTAL

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 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 = 3-0-6
END SETBACK = 6-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.25")
ALLOWABLE DEFL.(TL) = L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/772 (0.45")

CSI: TC=0.96/1.00 (6-8:1), BC=0.94/1.00 (15-17:1)
WB=0.65/1.00 (9-14:1), SSI=0.35/1.00 (8-9:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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	618	354	1667
	822	2284	1656

CONTINUED ON PAGE 2

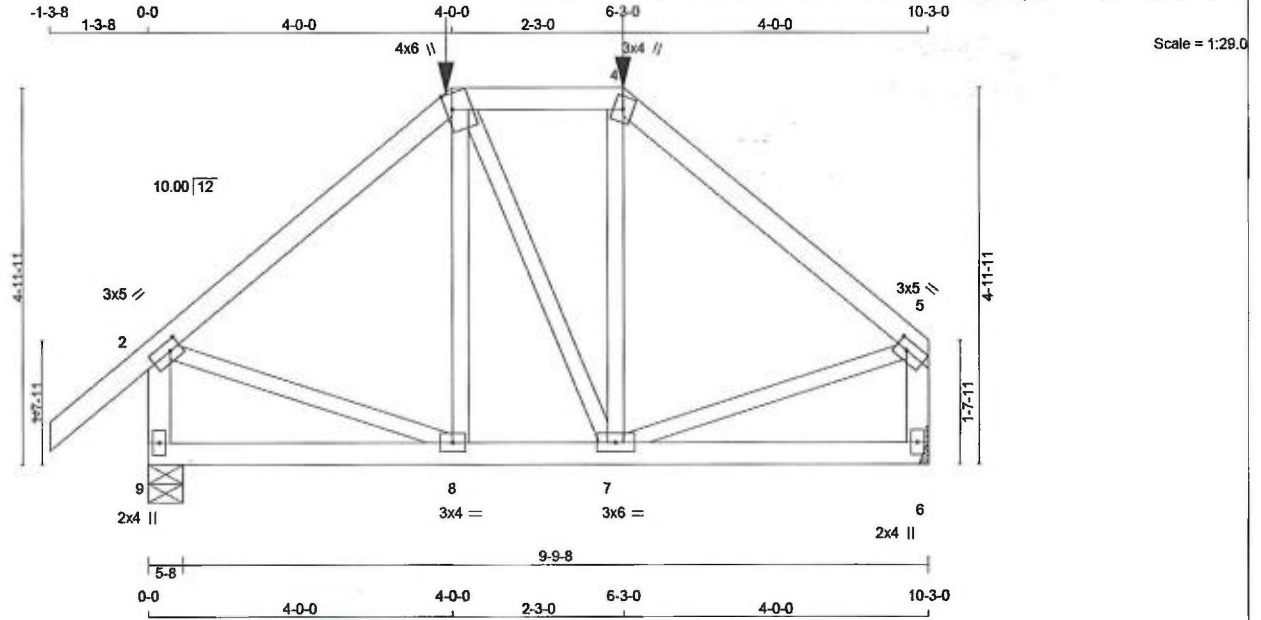


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0818-072	G01	1	1	GREENPARK - MINNISALE HOMES MILLWOOD 3 ELE 2	PAGE 4 OF 41
TRUSS DESC. Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Aug 14 13:56:31 2018 Page 2 ID:luy2SMGWusjlvMKCN0qKdgz4O6R-OL1pWGmYM?B4F_a2v7eYhN3gzfQVFv6Mmu46Mlynw					

HANGERS NOTES 1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 175.9 lbs FACTORED DOWN AT 25-11-10, AND 175.9 lbs FACTORED DOWN AT 3-0-6 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.		PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.90 (16) (INPUT = 0.90) JSI METAL= 0.93 (16) (INPUT = 1.00)
READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.		

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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0818-072	G02	1	1	GREENPARK - MINNISALE HOMES MILLWOOD 3 ELE 2	PAGE 6 OF 41
Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Aug 14 13:56:31 2018 Page 2 ID:luy2SMGWusjlvmKCN0qKdgz4O6R-OL1pWGmYM?B4F_a?v7eYhN3ggfVoFsDMmu46Mtyrwe					
HANGERS NOTES 1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 920.5 lbs FACTORED DOWN AT 10-3-12, AND 981.8 lbs FACTORED DOWN AT 18-6-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.					PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.89 (15) (INPUT = 0.90) JSI METAL= 0.97 (16) (INPUT = 1.00)
READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.					KOTT



TOTAL WEIGHT = 49 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
1 - 3	2x4	DRY	No.2
3 - 4	2x4	DRY	No.2
4 - 5	2x4	DRY	No.2
9 - 2	2x4	DRY	No.2
6 - 5	2x4	DRY	No.2
9 - 6	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
2	TMVW-t	MT20	3.0	5.0	1.50	1.75
3	TTWW+m	MT20	4.0	6.0	Edge	1.00
4	TTW+m	MT20	3.0	4.0		
5	TMVW-t	MT20	3.0	5.0	1.50	1.75
6	BMV1+p	MT20	2.0	4.0		
7	BMVWW-t	MT20	3.0	6.0		
8	BMVW-t	MT20	3.0	4.0		
9	BMV1+p	MT20	2.0	4.0		

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

HANGERS NOTES

- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 128.9 lbs FACTORED DOWN AT 6-3-0, AND 128.9 lbs FACTORED DOWN AT 4-0-0 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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
9	790 0	790 0	0 0	5-8	5-8
6	683 0	683 0	0 0	MECHANICAL	

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 6 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN	COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
9	552	401 / 0	0 / 0	0 / 0	0 / 0	151 / 0	0 / 0
6	479	337 / 0	0 / 0	0 / 0	0 / 0	143 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 9

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	FACTORED		MEMB.	MAX. FACTORED		
	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)		FORCE (LBS)	MAX (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
1-2	0 / 34	-77.4 -77.4	0.12 (1)	10.00	8-3	-51 / 54	0.02 (4)
2-3	-548 / 0	-77.4 -77.4	0.24 (1)	6.25	3-7	0 / 0	0.00 (1)
3-4	-419 / 0	-107.2 -107.2	0.10 (1)	6.25	7-4	-52 / 55	0.02 (4)
4-5	-548 / 0	-77.4 -77.4	0.24 (1)	6.25	2-8	0 / 441	0.11 (1)
9-2	-748 / 0	0.0 0.0	0.09 (1)	7.81	7-5	0 / 440	0.11 (1)
6-5	-640 / 0	0.0 0.0	0.07 (1)	7.81			
9-8	0 / 0	-24.2 -24.2	0.09 (4)	10.00			
8-7	0 / 419	-24.2 -24.2	0.12 (1)	10.00			
7-6	0 / 0	-24.2 -24.2	0.09 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
3	4-0-0	-129	-129		FRONT	VERT	TOTAL
4	6-3-0	-129	-129		FRONT	VERT	TOTAL

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
DL	=	3.0	PSF	
BOT CH.	LL	=	0.0	PSF
DL	=	7.0	PSF	
TOTAL LOAD	=	33.3	PSF	

SPACING = 24.0 IN. C/C

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

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.34")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.34")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.24/1.00 (2-3:1), BC=0.12/1.00 (7-8:1), WB=0.11/1.00 (2-8:1), SSI=0.10/1.00 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 822	2284 1656

CONTINUED ON PAGE 2



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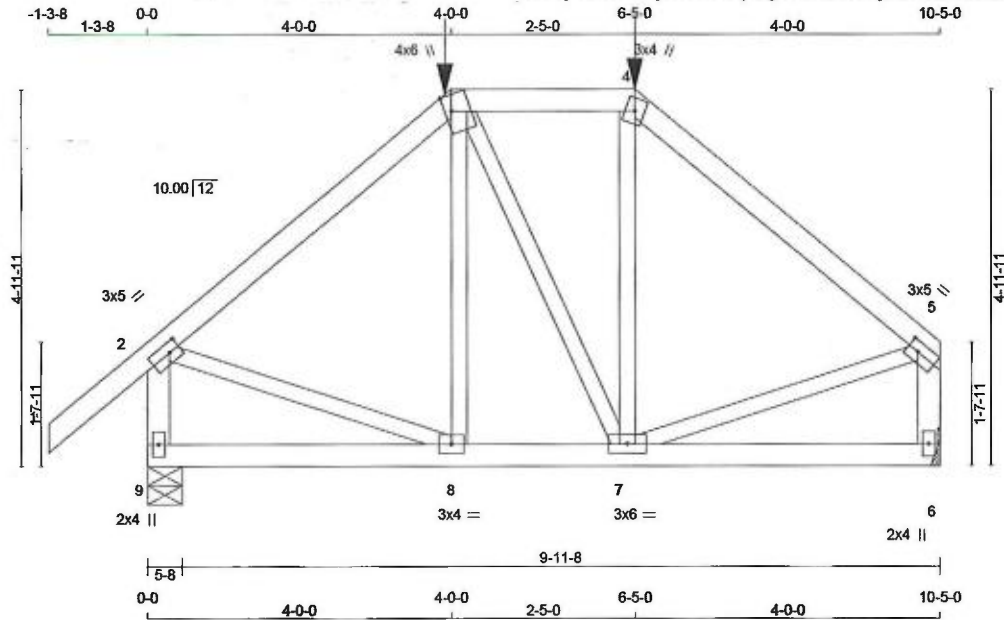
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - MINNISALE HOMES	DRWG NO.
NE0818-072	G03	1	1	TRUSS DESC.	MILLWOOD 3 ELE 2	PAGE 8 OF 41

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Aug 14 13:56:32 2018 Page 2
ID:luy2SMGWusjlvMKCN0gKdgz4O6R-sYbBjbnA7JJxt89BSqAnEac0t3zc VoW XqfuKynwei

PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP= 0.81 (7) (INPUT = 0.90)
JSI METAL= 0.21 (2) (INPUT = 1.00)

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NOTE PAGE IS AN INTEGRAL PART OF
THIS DRAWING AS IT CONTAINS
SPECIFICATIONS AND CRITERIA USED IN
THE DESIGN OF THIS COMPONENT.





Scale = 1:29.0

TOTAL WEIGHT = 49 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY No.2	SPF
3 - 4	2x4	DRY No.2	SPF
4 - 5	2x4	DRY No.2	SPF
9 - 2	2x4	DRY No.2	SPF
6 - 5	2x4	DRY No.2	SPF
9 - 6	2x4	DRY No.2	SPF

ALL WEBS 2x3 DRY
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	5.0	1.50	1.75
3	TTVW+m	MT20	4.0	6.0	Edge	1.00
4	TTW+m	MT20	3.0	4.0		
5	TMVW-t	MT20	3.0	5.0	1.50	1.75
6	BMV1+p	MT20	2.0	4.0		
7	BMVWW-t	MT20	3.0	6.0		
8	BMVW-t	MT20	3.0	4.0		
9	BMV1+p	MT20	2.0	4.0		

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

HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 128.9 lbs FACTORED DOWN AT 6-5-0, AND 128.9 lbs FACTORED DOWN AT 4-0-0 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

BEARINGS							
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT	REQD	
	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG IN-SX	BRG IN-SX
9	801	0	801	0	0	5-8	5-8
6	694	0	694	0	0	MECHANICAL	

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 6 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
9	560	406 / 0	0 / 0	0 / 0	0 / 0	153 / 0	0 / 0
6	487	342 / 0	0 / 0	0 / 0	0 / 0	145 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 9

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			
MAX. FACTORED		FACTORED		MAX. FACTORED			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
1-2	0 / 34	-77.4	-77.4 0.12 (1)	10.00	8-3	-52 / 55	0.02 (4)
2-3	-560 / 0	-77.4	-77.4 0.24 (1)	6.25	3-7	0 / 0	0.00 (1)
3-4	-428 / 0	-107.2	-107.2 0.12 (1)	6.25	7-8	-53 / 56	0.02 (4)
4-5	-560 / 0	-77.4	-77.4 0.24 (1)	6.25	2-4	0 / 451	0.11 (1)
9-2	-758 / 0	0.0	0.0 0.09 (1)	7.81	7-5	0 / 450	0.11 (1)
6-5	-651 / 0	0.0	0.0 0.08 (1)	7.81			
9-8	0 / 0	-24.2	-24.2 0.10 (4)	10.00			
8-7	0 / 428	-24.2	-24.2 0.12 (1)	10.00			
7-6	0 / 0	-24.2	-24.2 0.09 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
3	4-0-0	-129	-129	---	FRONT	VERT	TOTAL
4	6-5-0	-129	-129	---	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.**

DESIGN CRITERIA

SPECIFIED LOADS:

TOP	CH.	LL =	23.3	PSF
		DL =	3.0	PSF
BOT	CH.	LL =	0.0	PSF
		DL =	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CPrimeHip

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL
OR SMALL BUILDING REQUIREMENTS OF
PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIQ 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.35")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.24/1.00 (2-3:1), BC=0.12/1.00 (7-8:1), WB=0.11/1.00 (2-8:1), SSI=0.11/1.00 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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	618	354	1667	822	2284	1656

CONTINUED ON PAGE 2



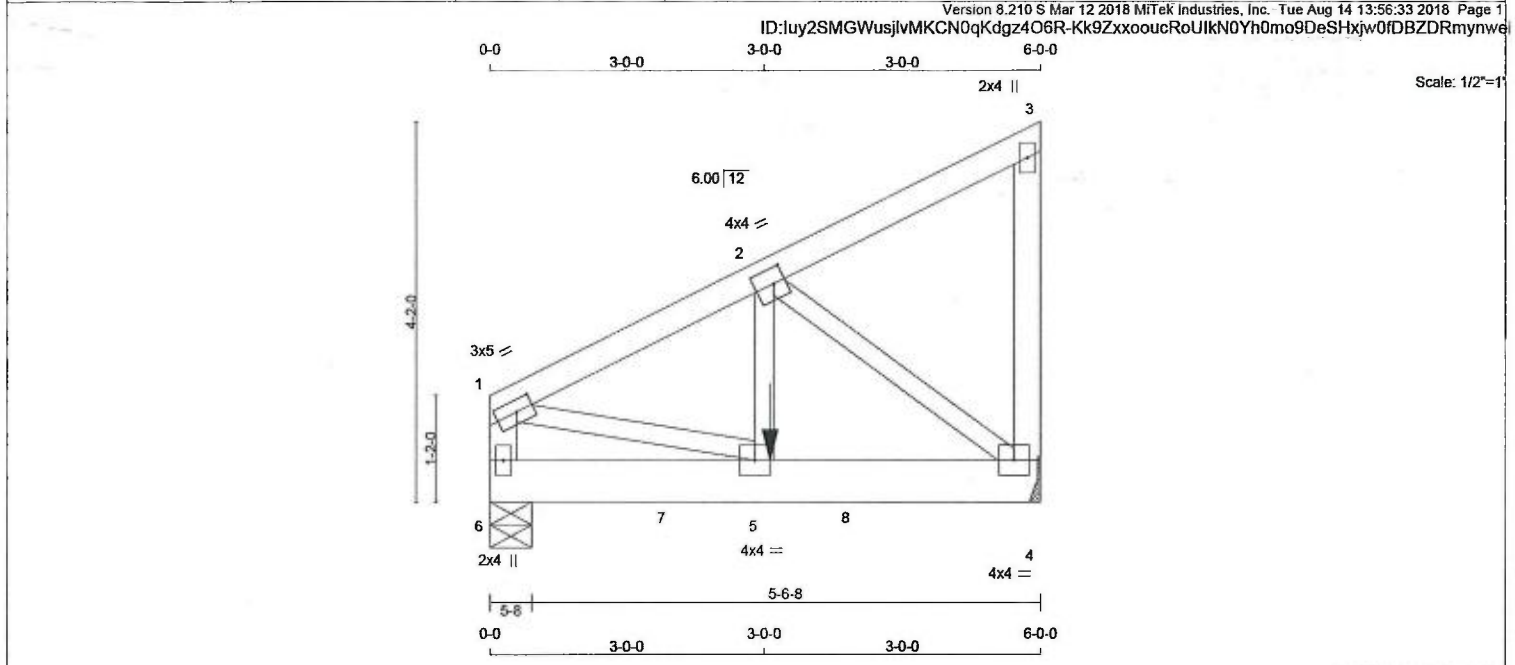
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0818-072	G04	1	1	GREENPARK - MINNISALE HOMES MILLWOOD 3 ELE 2	PAGE 10 OF 41

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Aug 14 13:56:33 2018 Page 2
ID:luy2SMGWusjlvmKCN0qKdgz4O6R-Kk9ZxxooucRoUlkN0Yh0mo9BdSJqiy0fDBZDRmywv

PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP= 0.83 (7) (INPUT = 0.90)
JSI METAL= 0.22 (2) (INPUT = 1.00)

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





ALL WEBS EXCEPT DRY: SEASONED LUMBER. TOTAL WEIGHT = 29 lb

N. L. G. A. RULES				BUILDING DESIGNER										DESIGN CRITERIA	
CHORDS	SIZE		LUMBER	DESCR.	BEARINGS										*** SPECIAL LOADS ANALYSIS ***
1 - 3	2x4	DRY	No.2	SPF	FACTORED					MAXIMUM FACTORED		INPUT	REQRD	GEOMETRY AND/OR BASIC LOADS CHANGED BY USER. LOADS WERE DERIVED FROM USER INPUT NO FURTHER MODIFICATIONS WERE MADE	
4 - 3	2x4	DRY	No.2	SPF	GROSS REACTION					GROSS REACTION		BRG	BRG		
6 - 1	2x4	DRY	No.2	SPF	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX			
6 - 4	2x6	DRY	No.2	SPF	4	962	0	962	0	0	MECHANICAL	5-8			
					6	774	0	774	0	0	5-8	5-8			
ALL WEBS EXCEPT				SPF	A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 4 TO RESIST THE MAX FACTORED REACTIONS.										SPECIFIED LOADS: TOP CH. LL = 23.3 PSF

DRY: SEASONED LUMBER.										DL = 3.0 PSF	
										BOT CH. LL = 0.0 PSF	
										DL = 7.0 PSF	
										TOTAL LOAD = 33.3 PSF	
<u>UNFACTORED REACTIONS</u>											

HANGERS NOTES				BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6				SPACING = 24.0 IN. C/C			
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 693.9 lbs FACTORED DOWN AT 3-0-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.				BRACING				GIRDER TYPE: CStdGirder			
				TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.				START DISTANCE = 4-0-0			
				MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.				START SPAN CARRIED = 10-5-0			
				ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.				END DISTANCE = 6-0-0			

LOADING				CHORDS				WEBS			
TOTAL LOAD CASES: (4)				MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD
				FR-TO	FORCE (LBS)	VERT. LOAD	LC1 MAX	FR-TO	FORCE (LBS)	VERT. LOAD	LC1 MAX
				1-2	-862 / 0	-77.4	-77.4 0.11 (1)	6-25	5-2	0 / 704	0.17 (1)
				2-3	-10 / 0	-77.4	-77.4 0.10 (1)	6-25	2-4	-980 / 0	0.24 (1)
				4-3	-93 / 0	0.0	0.0 0.02 (1)	7.81	1-5	0 / 806	0.20 (1)
				6-1	-685 / 0	0.0	0.0 0.08 (1)	7.81			

FACTORED CONCENTRATED LOADS (LBS)				THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010			
JT	LOC.	LC1	MAX-	THIS DESIGN COMPLIES WITH:			
5	3-0-12	-694	-694	- PART 9 OF OBC 2012, BCBC 2012, ABC 2014			
				- CSA 086-09			
				- TPIC 2011			

ALLOWABLE DEFL.				(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD			
ALLOWABLE DEFL.(LL) = L/360 (0.20")				CALCULATED VERT. DEFL.(LL) = L/999 (0.01")			
ALLOWABLE DEFL.(TL) = L/360 (0.20")				CALCULATED VERT. DEFL.(TL) = L/999 (0.02")			
CSI: TC=0.11/1.00 (1-2:1), BC=0.24/1.00 (4-5:1), WB=0.24/1.00 (2-4:1), SSI=0.18/1.00 (4-5:1)				DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00			
COMP=1.00 SHEAR=1.00 TENS=1.00							

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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0818-072	G05	1	1	GREENPARK - MINNISALE HOMES MILLWOOD 3 ELE 2	PAGE 12 OF 41

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Aug 14 13:56:33 2018 Page 2
ID:luy2SMGWusjlvMKCN0gKdgz4O6R-Kk9ZxxooucRoUIkN0Yh0mo9DeSHxjw0fDBZDRmynwg

COMPANION LIVE LOAD FACTOR = 0.50

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	618 354	1667 822	2284 1656

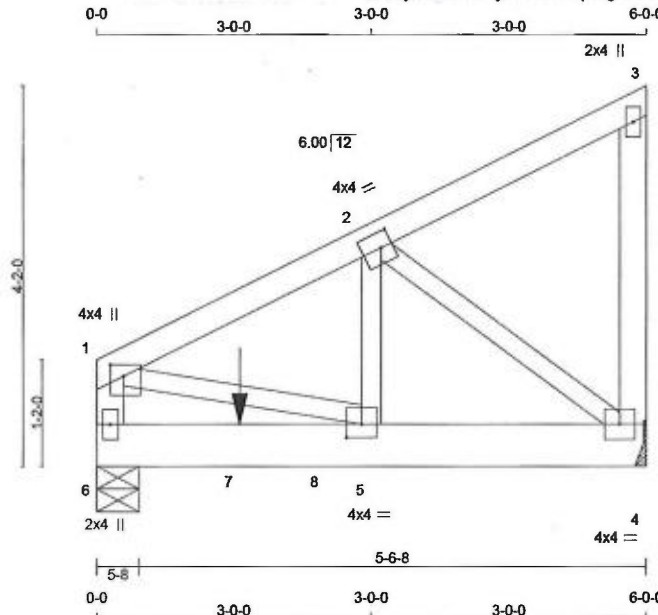
PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (1) (INPUT = 0.90)
JSI METAL= 0.29 (4) (INPUT = 1.00)

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





TOTAL WEIGHT = 29 lb [M]

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
4 - 3	2x4	DRY	No.2	SPF
6 - 1	2x4	DRY	No.2	SPF
6 - 4	2x6	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
1	TMVW+p	MT20	4.0	4.0	1.50	1.75
2	TMWW-t	MT20	4.0	4.0	2.00	1.50
3	TMV+p	MT20	2.0	4.0		
4	BMVW1-t	MT20	4.0	4.0		
5	BMWW-t	MT20	4.0	4.0	1.75	2.00
6	BMV1+p	MT20	2.0	4.0		

HANGERS NOTES

- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 682.5 lbs FACTORED DOWN AT 1-6-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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
4	920	0	0	0
6	978	0	0	0

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 4 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
4	646	452 / 0	0 / 0	0 / 0	0 / 0	194 / 0	0 / 0
6	686	480 / 0	0 / 0	0 / 0	0 / 0	206 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6

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	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRACED LENGTH	WEBS	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH
MEMB.					MEMB.		
FR-TO					FR-TO		
1-2	-869 / 0	-77.4	-77.4 0.11 (1)	6.25	5-2	0 / 712	0.18 (1)
2-3	-10 / 0	-77.4	-77.4 0.10 (1)	6.25	2-4	-987 / 0	0.24 (1)
4-3	-93 / 0	0.0	0.0 0.02 (1)	7.81	1-5	0 / 813	0.20 (1)
6-1	-690 / 0	0.0	0.0 0.08 (1)	7.81			
6-7	0 / 0	-17.5	-17.5 0.32 (1)	10.00			
7-8	0 / 0	-17.5	-17.5 0.32 (1)	10.00			
8-5	0 / 0	-202.3	-202.3 0.32 (1)	10.00			
5-4	0 / 787	-202.3	-202.3 0.26 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
7	1-6-12	-683	-683	---	BACK	VERT	TOTAL

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	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD	=	33.3	PSF	

SPACING = 24.0 IN. C/C

GIRDER TYPE: CSldGirder
START DISTANCE = 2-6-0
START SPAN CARRIED = 10-3-0
END DISTANCE = 6-0-0
END SPAN CARRIED = 10-3-0
END WALL WIDTH = 5-8
APPLIED TO BACK SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

*** NON STANDARD GIRDER ***

ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, 8CBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.11/1.00 (1-2:1), BC=0.32/1.00 (5-6:1), WB=0.24/1.00 (2-4:1), SS=0.36/1.00 (5-6:1)

DOL LUMBER=1.00 NAIL=1.00 L S BEND=1.00
COMP=1.00 SHEAR=1.00 TENS= 1.00

COMPANION LIVE LOAD FACTOR = 0.50

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

CONTINUED ON PAGE 2



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.



NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
	MAX	MIN	MAX MIN
MT20	618	354	1667 822 2284 1656

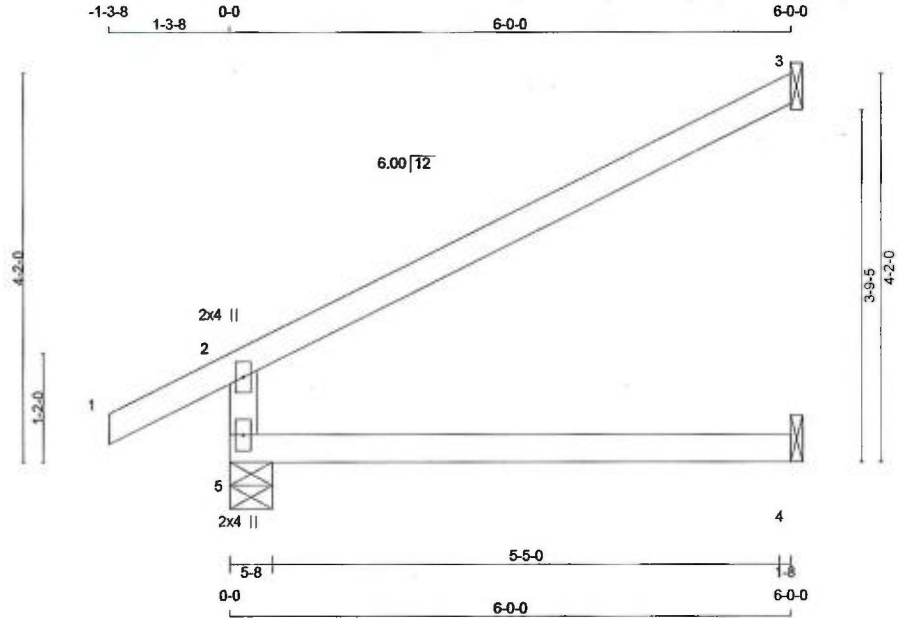
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (4) (INPUT = 0.90)
JSI METAL= 0.29 (4) (INPUT = 1.00)

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





Scale = 1:23.6

TOTAL WEIGHT = 19 X 17 = 325 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
5 - 2	2x4	DRY	No.2	SPF
1 - 3	2x4	DRY	No.2	SPF
5 - 4	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
5	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	GROSS REACTION	DOWN	HORZ	UPLIFT	BRG	BRG	IN-SX
5	457	0	457	0	0	0	5-8	5-8	
3	174	0	174	0	0	0	1-8	1-8	
4	43	0	49	0	0	0	1-8	1-8	

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 3, 4

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
5	318	238 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	80 / 0	0 / 0
3	118	105 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0
4	35	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO		FR-TO		
5-2	-395 / 0	0.0	0.0 0.13 (4)	7.81			
1-2	0 / 23	-77.4	-77.4 0.10 (1)	10.00			
2-3	-26 / 0	-77.4	-77.4 0.47 (1)	6.25			
5-4	0 / 0	-17.5	-17.5 0.13 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN./C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.47/1.00 (2-3:1), BC=0.13/1.00 (4-5:4), WB=0.00/1.00 (n/a:0), SSI=0.20/1.00 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES	PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)	(PLI)
	MAX	MIN	MAX	MIN
	618	354	1667	822
	MT20		2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

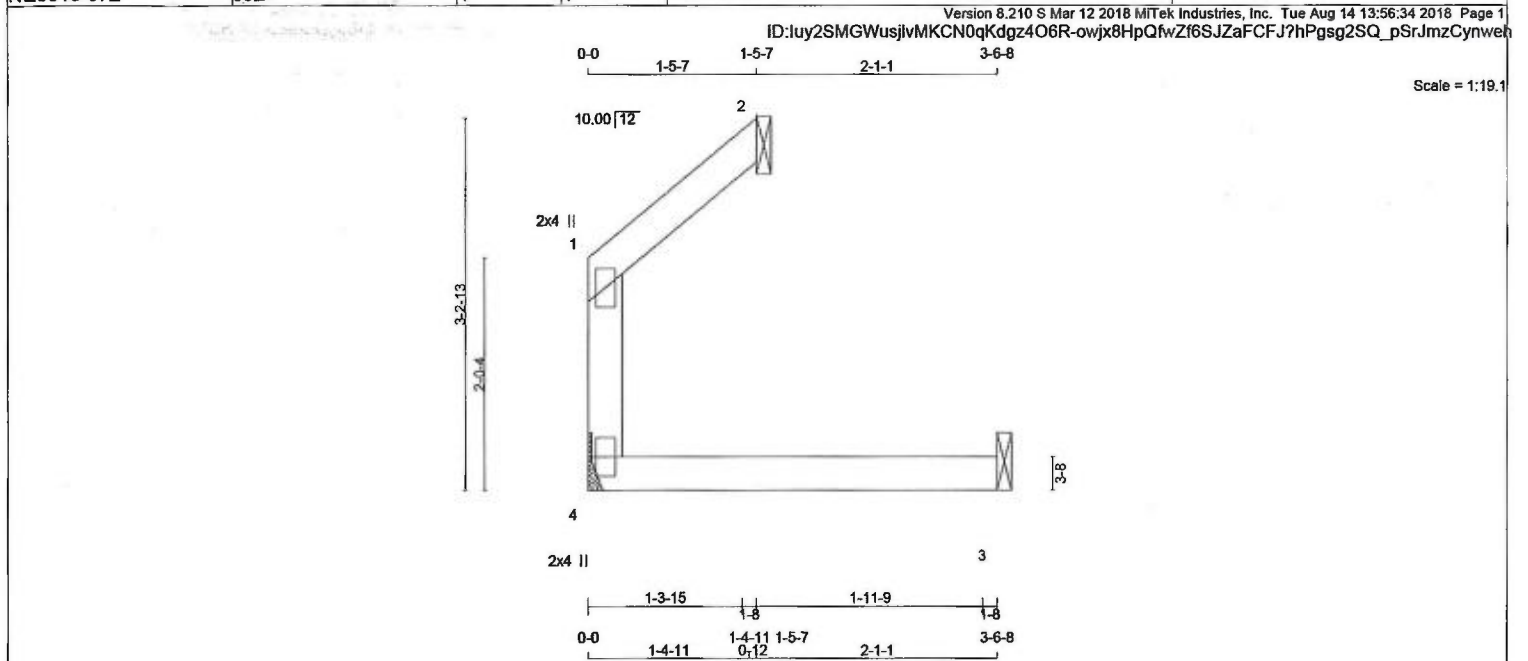
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.23 (2) (INPUT = 0.90)
JSI METAL= 0.09 (2) (INPUT = 1.00)

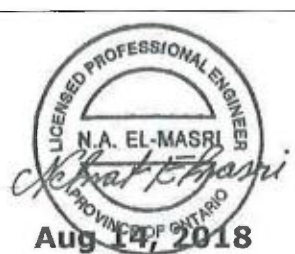


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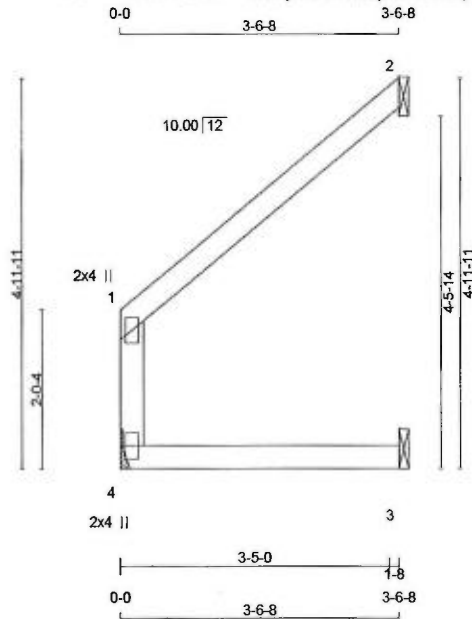


LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER 4 - 1 2x4 DRY No.2 1 - 2 2x4 DRY No.2 4 - 3 2x4 DRY No.2 DRY: SEASONED LUMBER.			DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN./C THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.19") CALCULATED VERT. DEFL.(LL) = L/999 (0.00") ALLOWABLE DEFL.(TL)= L/360 (0.19") CALCULATED VERT. DEFL.(TL) = L/999 (0.01") CSI: TC=0.03/1.00 (1-2:1), BC=0.05/1.00 (3-4:4), WB=0.00/1.00 (n/a:0), SSI=0.05/1.00 (3-4:4) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 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 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.04 (1) (INPUT = 0.90) JSI METAL= 0.01 (1) (INPUT = 1.00)			PLATES (table is in inches) JT TYPE PLATES W LEN Y X 1 TMV+p MT20 2.0 4.0 4 BMV1+p MT20 2.0 4.0			BEARINGS FACTORED GROSS REACTION JT VERT HORZ 4 85 0 2 60 0 3 29 0 MAXIMUM FACTORED GROSS REACTION DOWN HORZ UPLIFT 4 85 0 0 2 60 0 0 3 32 0 0 INPUT BRG IN-SX MECHANICAL 1-8 1-8 REQD BRG IN-SX 1-8 1-8 A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 4 TO RESIST THE MAX FACTORED REACTIONS. SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 2 , 3			UNFACTORED REACTIONS 1ST LCASE MAX/MIN COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 4 61 35/0 0/0 0/0 0/0 26/0 0/0 2 42 32/0 0/0 0/0 0/0 9/0 0/0 3 23 1/0 0/0 0/0 0/0 23/0 0/0 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.			LOADING TOTAL LOAD CASES: (4) CHORDS MEMB. MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) MAX. FACTORED LC1 MAX. FACTORED CSI (LC) UNBRAC LENGTH FR-TO FR-TO 4-1 -52/0 0.0 0.0 0.02 (4) 7.81 1-2 0/4 -77.4 -77.4 0.03 (1) 10.00 4-3 0/0 -17.5 -17.5 0.05 (4) 10.00 WEBS MEMB. MAX. FACTORED FORCE (LBS) MAX. FACTORED CSI (LC) FR-TO 4-1 -52/0 0.0 0.0 0.02 (4) 7.81 1-2 0/4 -77.4 -77.4 0.03 (1) 10.00 4-3 0/0 -17.5 -17.5 0.05 (4) 10.00			TOTAL WEIGHT = 4 X 8 = 33 lb [M][F]		
---	--	--	--	--	--	---	--	--	--	--	--	--	--	--	---	--	--	---	--	--



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Scale = 1:28.0

TOTAL WEIGHT = 5 X 11 = 57 lb [M][F]

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
4 - 1	2x4	DRY	No.2	SPF	
1 - 2	2x4	DRY	No.2	SPF	
4 - 3	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
4	168	0	168	0	0	0	MECHANICAL		
2	127	0	127	0	0	0	1-8	1-8	
3	41	0	41	0	0	0	1-8	1-8	

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 4 TO RESIST THE MAX FACTORED REACTIONS.

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 2, 3

UNFACTORED REACTIONS

JT	1ST LCASE	MAX / MIN	COMPONENT REACTIONS					
			SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
4	118	82 / 0	0 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0
2	87	75 / 0	0 / 0	0 / 0	0 / 0	0 / 0	11 / 0	0 / 0
3	31	7 / 0	0 / 0	0 / 0	0 / 0	0 / 0	24 / 0	0 / 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 MAX (LC)	UNBRACED LENGTH FR-TO
4-1	-147 / 0	0.0	0.0 0.04 (1)	7.81			
1-2	-6 / 0	-77.4	-77.4 0.13 (1)	10.00			
4-3	0 / 0	-17.5	-17.5 0.06 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, CBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.13/1.00 (1-2:1), BC=0.06/1.00 (3-4:1), WB=0.00/1.00 (n/a:0), SSI=0.09/1.00 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

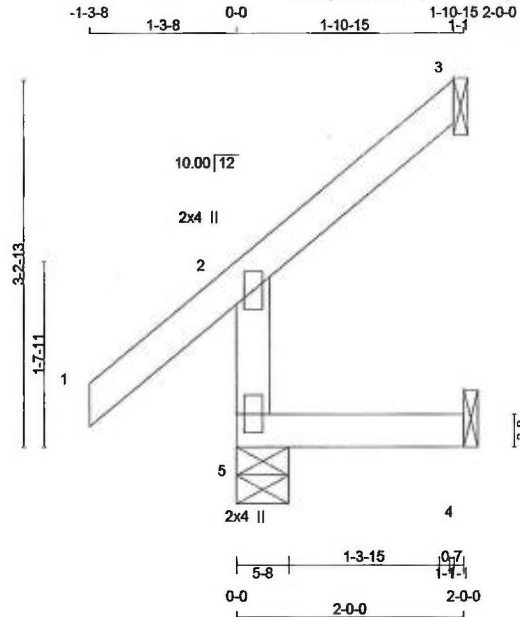
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.11 (1) (INPUT = 0.90)
JSI METAL= 0.04 (1) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 9 = 17 lb [M]

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
5 - 2	2x4	DRY	No.2	SPF
1 - 3	2x4	DRY	No.2	SPF
5 - 4	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
5	BMV+p	MT20	2.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ UPLIFT		
5	237	0	237	0	5-8	5-8
3	42	0	42	0	1-8	1-8
4	10	0	18	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 3, 4

PROVIDE ANCHORAGE AT BEARING JOINT 3 FOR 150 LBS. FACTORED UPLIFT

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
5	163	132 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0
3	29	25 / -16	0 / 0	0 / 0	0 / 0	4 / 0	0 / 0
4	9	0 / -7	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5, 3

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)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)		
FR-TO		FROM	TO		FR-TO				
5-2	-213 / 0	0.0	0.0	0.03 (5)	7.81				
1-2	0 / 34	-77.4	-77.4	0.11 (1)	10.00				
2-3	-20 / 0	-77.4	-77.4	0.08 (1)	6.25				
5-4	0 / 0	-17.5	-17.5	0.03 (5)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

DESIGN ASSUMPTIONS
- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.11/1.00 (1-2:1), BC=0.03/1.00 (4-5:5), WB=0.00/1.00 (n/a:0), SSI=0.06/1.00 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI)	SHEAR (PLI)	SECTION (PLI)
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

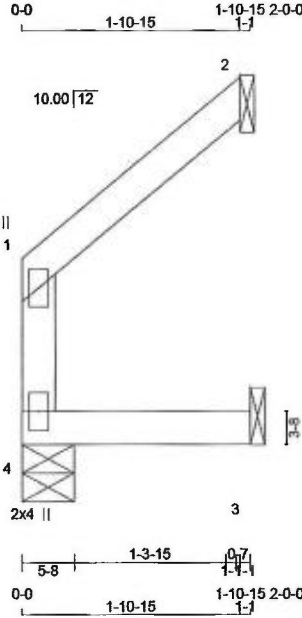
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (2) (INPUT = 0.90)
JSI METAL= 0.06 (2) (INPUT = 1.00)



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Scale = 1:19.4

TOTAL WEIGHT = 2 X 7 = 14 lb [M/JF]

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.	SPF
4 - 1	2x4	DRY	No.2	SPF		
1 - 2	2x4	DRY	No.2	SPF		
4 - 3	2x4	DRY	No.2	SPF		

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMV+p	MT20	2.0	4.0		
4	BMV1+p	MT20	2.0	4.0		

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

BEARINGS							
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
4	92	0	92	0	0	5-8	5-8
2	70	0	70	0	0	1-8	1-8
3	22	0	22	0	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 2, 3

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
4	64	45/0	0/0	0/0	0/0	20/0	0/0
2	47	41/0	0/0	0/0	0/0	6/0	0/0
3	17	3/0	0/0	0/0	0/0	14/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 4, 2

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
4-1	-78 / 0	0.0	0.0	0.01 (1)	7.81		
1-2	-3 / 0	-77.4	-77.4	0.04 (1)	10.00		
4-3	0 / 0	-17.5	-17.5	0.02 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	23.3	PSF
	DL =	3.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	33.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.04/1.00 (1-2:1), BC=0.02/1.00 (3-4:4), WB=0.00/1.00 (n/a:0), SSI=0.05/1.00 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

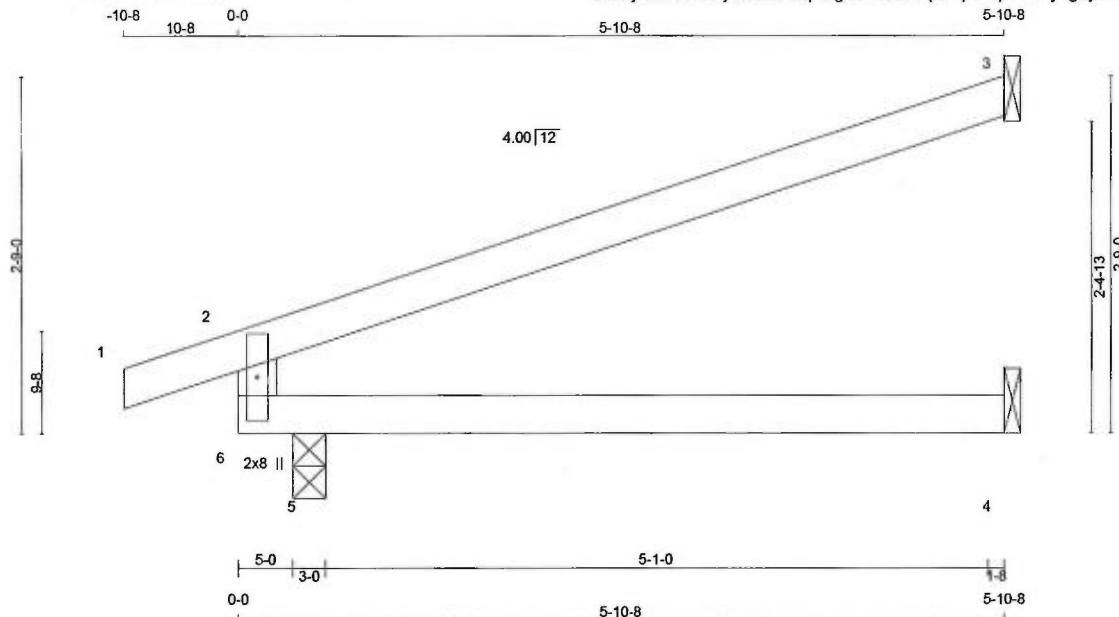
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.06 (1) (INPUT = 0.90)
JSI METAL= 0.02 (1) (INPUT = 1.00)



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TOTAL WEIGHT = 6 X 15 = 92 lb (M)

LUMBER

N. L. G. A. RULES	SIZE	LUMBER
CHORDS	2x4	No. 2
6 - 2	2x4	DRY
1 - 3	2x4	DRY
6 - 4	2x4	DRY

DRY: SEASONED LUMBER.

DESCR.
SPF
SPF
SPF

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	FACTORED GROSS REACTION HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	MAXIMUM FACTORED GROSS REACTION HORZ	INPUT BRG UPLIFT	REQD BRG IN-SX
3	171	0	171	0	0	1-8
4	29	0	43	0	0	1-8
5	428	0	428	0	0	3-0

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 3, 4

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN SNOW	MAX/MIN LIVE	MAX/MIN PERM. LIVE	MAX/MIN WIND	MAX/MIN DEAD	MAX/MIN SOIL
3	116	103 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0
4	25	0 / -6	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0
5	299	219 / 0	0 / 0	0 / 0	0 / 0	79 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO. 2 OR BETTER AT JOINT(S) 5

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX (LC)	FACTORED UNBRAC LENGTH (FT)	MEMB.	WEBS MAX. FACTORED FORCE (LBS)	FACTORED MAX. (LC)
FR-TO					FR-TO		
6-2	-355 / 0	0.0	0.0	0.14 (1)	7.81		
1-2	0 / 11	-77.4	-77.4	0.05 (1)	10.00		
2-3	-18 / 0	-77.4	-77.4	0.45 (1)	6.25		
6-5	0 / 0	-17.5	-17.5	0.14 (1)	10.00		
5-4	0 / 0	-17.5	-17.5	0.13 (1)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3 PSF
DL = 3.0 PSF	
BOT CH.	LL = 0.0 PSF
DL = 7.0 PSF	
TOTAL LOAD = 33.3 PSF	

SPACING = 24.0 IN./C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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")

CANTILEVER DEFLECTION:

ALLOWABLE DEFL.(LL)=	L/120 (0.19")
CALCULATED VERT. DEFL.(LL)=	L/952 (0.01")
ALLOWABLE DEFL.(TL)=	L/120 (0.19")
CALCULATED VERT. DEFL.(TL)=	L/920 (0.01")

CSI: TC=0.45/1.00 (2-3:1), BC=0.14/1.00 (5-6:1), WB=0.00/1.00 (n/a:0), SSI=0.28/1.00 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI)	SHEAR (PLI)	SECTION (PLI)
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

CONTINUED ON PAGE 2



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.

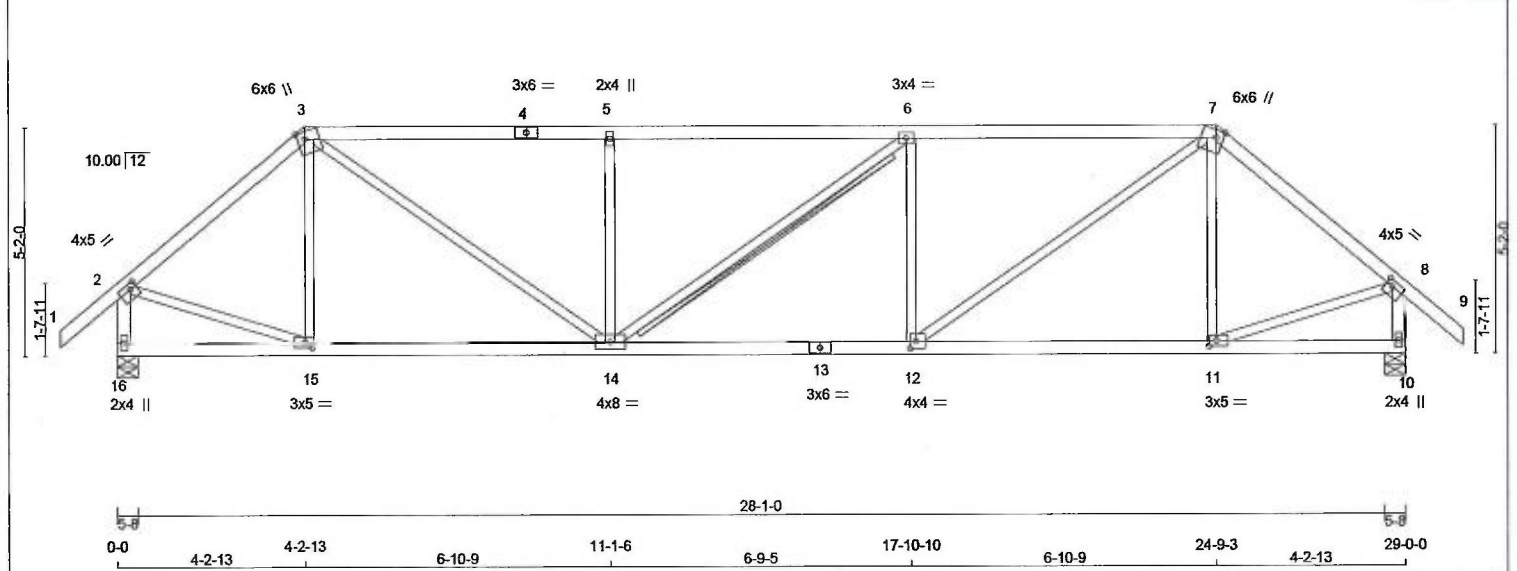


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0818-072	J06	6	1	GREENPARK - MINNISALE HOMES - MILLWOOD 3 ELE 2	PAGE 21 OF 41
TRUSS DESC. Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Aug 14 13:56:37 2018 Page 2 ID:luy2SMGWusjlvmKCN0qKdgz4O6R-DVO4mJrJxrxDzv28FNlyxeJpO4fQfnkF8pXQaXynwee					

JSI GRIP= 0.16 (6) (INPUT = 0.90)
 JSI METAL= 0.07 (6) (INPUT = 1.00)

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





TOTAL WEIGHT = 2 X 117 = 235 LBS [M]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2 SPF
3 - 4	2x4	DRY	No.2 SPF
4 - 7	2x4	DRY	No.2 SPF
7 - 9	2x4	DRY	No.2 SPF
16 - 2	2x4	DRY	No.2 SPF
10 - 8	2x4	DRY	No.2 SPF
16 - 13	2x4	DRY	No.2 SPF
13 - 10	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
2	TMVW-t	MT20	4.0	5.0	1.50 1.75
3	TTWW+m	MT20	6.0	6.0	2.00 2.00
4	TS-t	MT20	3.0	6.0	
5	TMW+w	MT20	2.0	4.0	
6	TMWW-t	MT20	3.0	4.0	
7	TTWW+m	MT20	6.0	6.0	2.00 2.00
8	TMVW-t	MT20	4.0	5.0	1.50 1.75
10	BMV1+p	MT20	2.0	4.0	
11	BMWW-t	MT20	3.0	5.0	1.50 2.00
12	BMWW-t	MT20	4.0	4.0	2.00 1.50
13	BS-t	MT20	3.0	6.0	
14	BMWWW-t	MT20	4.0	8.0	
15	BMWW-t	MT20	3.0	5.0	1.50 2.00
16	BMV1+p	MT20	2.0	4.0	

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

BEARINGS					
	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT IN-SX
16	1483	0	1483	0	0 5-8
10	1483	0	1483	0	0 5-8

UNFACTORED REACTIONS						
	1ST LCASE	MAX/MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
16	1038	740 / 0	0 / 0	0 / 0	0 / 0	298 / 0
10	1038	740 / 0	0 / 0	0 / 0	0 / 0	298 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16, 10

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.03 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 6-14

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)
FR-TO		FROM TO	CSI (LC)	UNBRAC LENGTH	FR-TO		
1-2	0 / 34	-77.4	-77.4 0.11 (1)	10.00	15-3	-202 / 27	0.08 (1)
2-3	-1360 / 0	-77.4	-77.4 0.28 (1)	5.25	3-14	0 / 1197	0.27 (1)
3-4	-2016 / 0	-77.4	-77.4 0.66 (1)	4.06	14-5	-570 / 0	0.23 (1)
4-5	-2016 / 0	-77.4	-77.4 0.66 (1)	4.06	14-6	-3 / 0	0.00 (1)
5-6	-2016 / 0	-77.4	-77.4 0.67 (1)	4.04	12-6	-572 / 0	0.23 (1)
6-7	-2016 / 0	-77.4	-77.4 0.68 (1)	4.03	12-7	0 / 1200	0.27 (1)
7-8	-1360 / 0	-77.4	-77.4 0.28 (1)	5.25	11-7	-203 / 27	0.08 (1)
8-9	0 / 34	-77.4	-77.4 0.11 (1)	10.00	2-15	0 / 1088	0.24 (1)
16-2	-1458 / 0	0.0	0.0 0.16 (1)	6.77	11-8	0 / 1088	0.24 (1)
10-8	-1458 / 0	0.0	0.0 0.16 (1)	6.77			
16-15	0 / 0	-17.5	-17.5 0.13 (4)	10.00			
15-14	0 / 1038	-17.5	-17.5 0.25 (1)	10.00			
14-13	0 / 2018	-17.5	-17.5 0.40 (1)	10.00			
13-12	0 / 2018	-17.5	-17.5 0.40 (1)	10.00			
12-11	0 / 1038	-17.5	-17.5 0.25 (1)	10.00			
11-10	0 / 0	-17.5	-17.5 0.13 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 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 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.97")
CALCULATED VERT. DEFL.(LL)= L/999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL)= L/999 (0.19")

CSI: TC=0.68/1.00 (6-7:1), BC=0.40/1.00 (12-14:1), WB=0.27/1.00 (7-12:1), SSI=0.25/1.00 (6-7:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

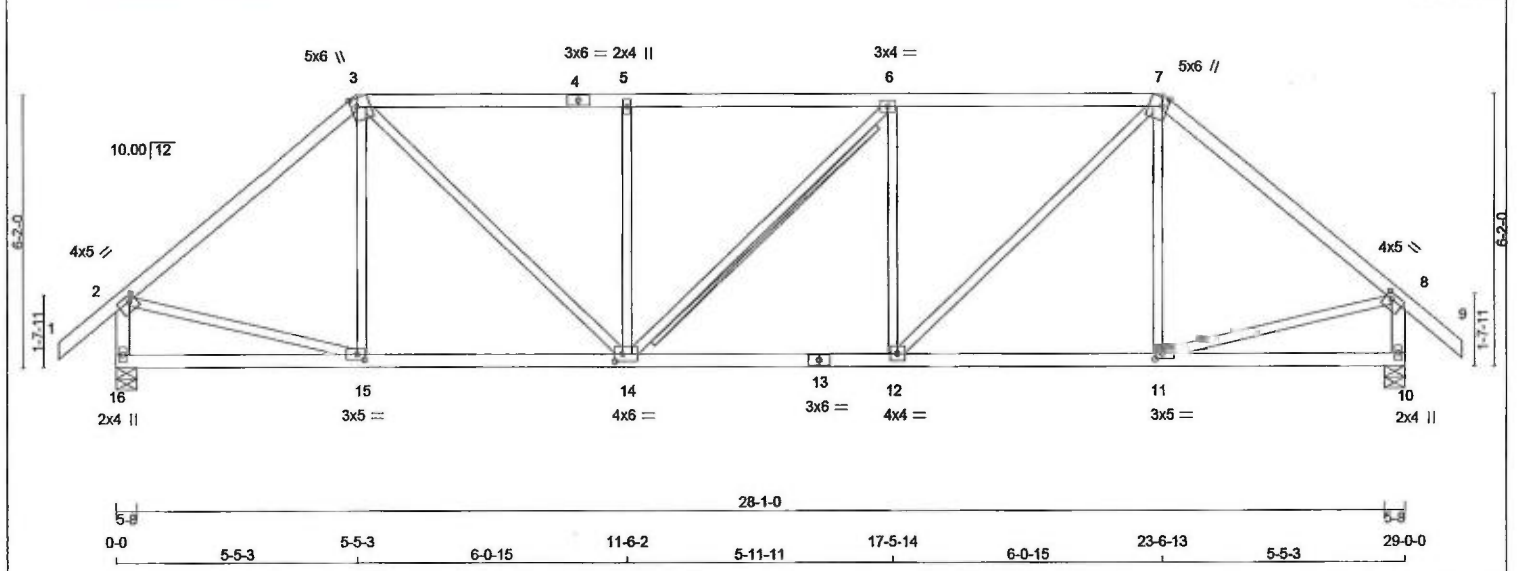
JSI GRIP= 0.90 (15) (INPUT = 0.90)
JSI METAL= 0.56 (13) (INPUT = 1.00)

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



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
N. L. G. A. RULES
CHORDS SIZE LUMBER DESCR.
1 - 3 2x4 DRY No.2 SPF
3 - 4 2x4 DRY No.2 SPF
4 - 7 2x4 DRY No.2 SPF
7 - 9 2x4 DRY No.2 SPF
16 - 2 2x4 DRY No.2 SPF
10 - 8 2x4 DRY No.2 SPF
16 - 13 2x4 DRY No.2 SPF
13 - 10 2x4 DRY No.2 SPF
ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
16	1483	0	1483	0	0	5-8	5-8	5-8	
10	1483	0	1483	0	0	5-8	5-8	5-8	

UNFACTORED REACTIONS									
		1ST LCASE MAX/MIN. COMPONENT REACTIONS							
JT		COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
16	1038	740 / 0	0 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0	
10	1038	740 / 0	0 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0	

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16, 10

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.59 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 6-14

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)	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
1-2	0 / 34	-77.4	-77.4 0.11 (1)	10.00	15-3	-133 / 52	0.08 (1)
2-3	-1371 / 0	-77.4	-77.4 0.49 (1)	4.97	3-14	0 / 873	0.20 (1)
3-4	-1678 / 0	-77.4	-77.4 0.46 (1)	4.61	14-5	-503 / 0	0.30 (1)
4-5	-1678 / 0	-77.4	-77.4 0.46 (1)	4.61	14-6	-3 / 0	0.00 (1)
5-6	-1678 / 0	-77.4	-77.4 0.47 (1)	4.60	12-6	-505 / 0	0.30 (1)
6-7	-1678 / 0	-77.4	-77.4 0.47 (1)	4.59	12-7	0 / 876	0.20 (1)
7-8	-1371 / 0	-77.4	-77.4 0.49 (1)	4.97	11-7	-134 / 52	0.08 (1)
8-9	0 / 34	-77.4	-77.4 0.11 (1)	10.00	2-15	0 / 1080	0.24 (1)
16-2	-1445 / 0	0.0	0.0 0.15 (1)	6.80	11-8	0 / 1080	0.24 (1)
10-8	-1445 / 0	0.0	0.0 0.15 (1)	6.80			
16-15	0 / 0	-17.5	-17.5 0.14 (4)	10.00			
15-14	0 / 1049	-17.5	-17.5 0.25 (1)	10.00			
14-13	0 / 1680	-17.5	-17.5 0.33 (1)	10.00			
13-12	0 / 1680	-17.5	-17.5 0.33 (1)	10.00			
12-11	0 / 1048	-17.5	-17.5 0.25 (1)	10.00			
11-10	0 / 0	-17.5	-17.5 0.14 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.97")
ALLOWABLE DEFL.(TL) = L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.49/1.00 (2-3:1), BC=0.33/1.00 (12-14:1), WB=0.30/1.00 (6-12:1), SSI=0.22/1.00 (6-7:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

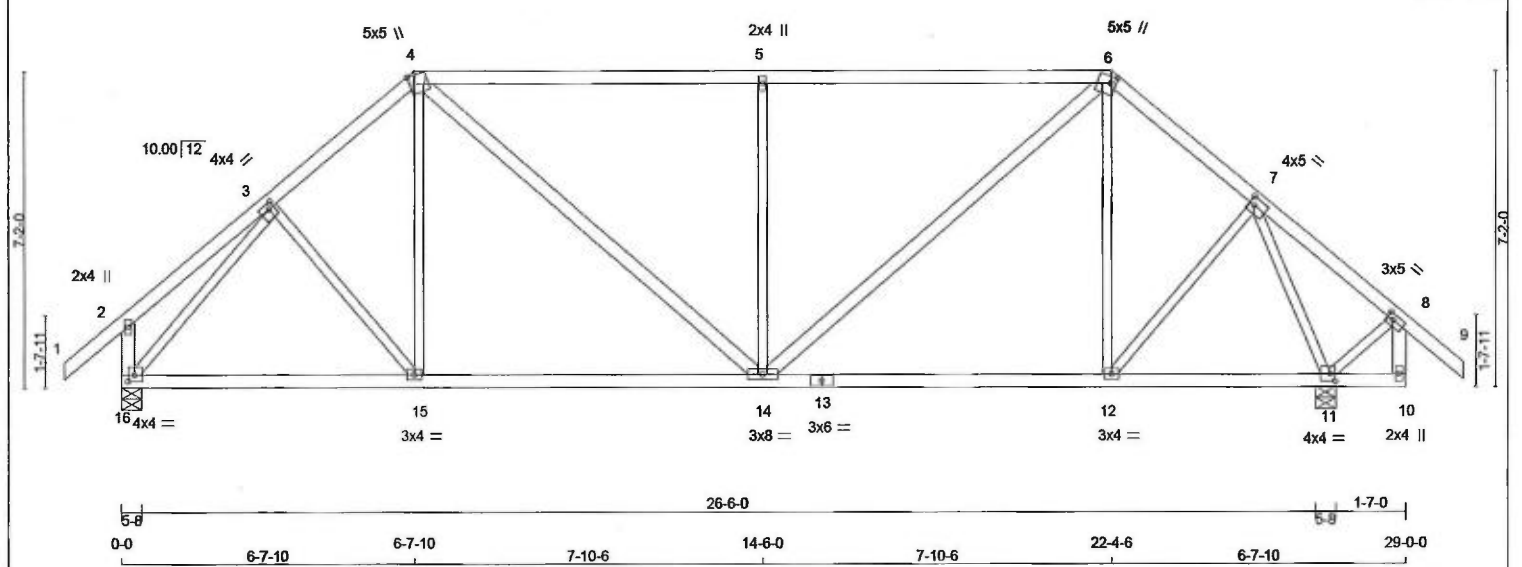
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (12) (INPUT = 0.90)
JSI METAL= 0.47 (2) (INPUT = 1.00)



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





LUMBER
 N. L. G. A. RULES
 CHORDS SIZE LUMBER DESCR.
 1 - 4 2x4 DRY No.2 SPF
 4 - 6 2x4 DRY No.2 SPF
 6 - 9 2x4 DRY No.2 SPF
 16 - 2 2x4 DRY No.2 SPF
 10 - 8 2x4 DRY No.2 SPF
 16 - 13 2x4 DRY No.2 SPF
 13 - 10 2x4 DRY No.2 SPF
 ALL WEBS 2x3 DRY No.2 SPF
 EXCEPT
 4 - 14 2x4 DRY No.2 SPF
 14 - 6 2x4 DRY No.2 SPF
 DRY: SEASONED LUMBER.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
11	1578	0	1578	0	0	5-8	5-8	5-8	
16	1387	0	1387	0	0	5-8	5-8	5-8	

UNFACTORED REACTIONS									
		1ST LCASE		MAX/MIN		COMPONENT REACTIONS			
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
11	1105	787 / 0	0 / 0	0 / 0	0 / 0	0 / 0	317 / 0	0 / 0	
16	971	692 / 0	0 / 0	0 / 0	0 / 0	0 / 0	279 / 0	0 / 0	

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 11, 16

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.76 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)

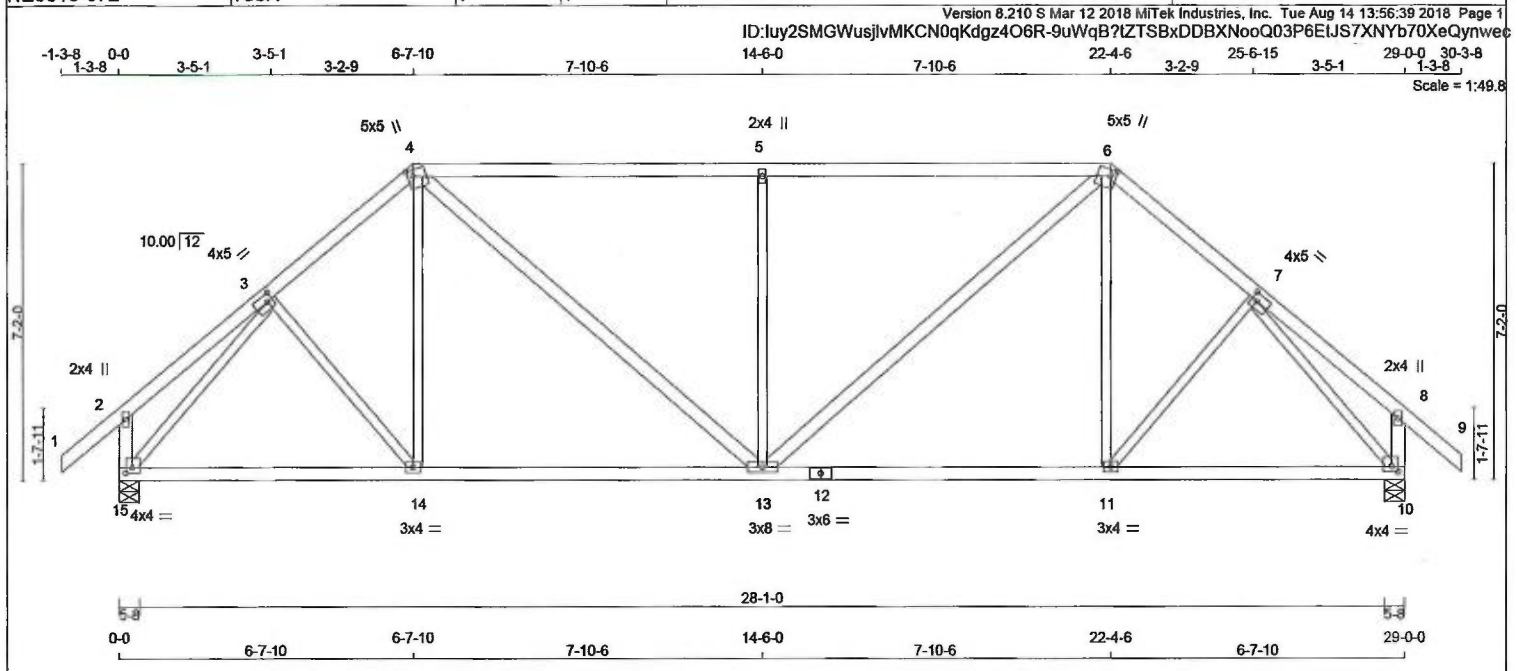
6	TTWW+m	MT20	5.0	5.0	1.75	1.25																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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JSI GRIP= 0.88 (7) (INPUT = 0.90)
JSI METAL= 0.54 (3) (INPUT = 1.00)

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





LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	2100F 1.8E	SPF
6 - 9	2x4	DRY	No.2	SPF
15 - 2	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
15 - 12	2x4	DRY	No.2	SPF
12 - 10	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
4 - 13	2x4	DRY	No.2	SPF
13 - 6	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMWW-t	MT20	4.0	5.0	2.00	1.50
4	TTWW+m	MT20	5.0	5.0	1.75	1.50
5	TMW+w	MT20	2.0	4.0		
6	TTWW+m	MT20	5.0	5.0	1.75	1.50
7	TMW-t	MT20	4.0	5.0	2.00	1.50
8	TMV+p	MT20	2.0	4.0		
10	BMVW1-t	MT20	4.0	4.0	1.50	1.75
11	BMVW1-t	MT20	3.0	4.0		
12	BS-t	MT20	3.0	6.0		
13	BMVW1-t	MT20	3.0	8.0		
14	BMVW1-t	MT20	3.0	4.0		
15	BMVW1-t	MT20	4.0	4.0	1.50	1.75

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ UPLIFT		
15	1483	0	1483	0	5-8	5-8
10	1483	0	1483	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE MAX./MIN. COMPONENT REACTIONS						
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
15	1038	740 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0
10	1038	740 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 15, 10

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.38 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)	MAX FACTORED UNBRAC LENGTH	MAX. FACTORED CSI (LC)
FR-TO				FR-TO			
1-2	0 / 34	-77.4	-77.4 0.11 (1)	10.00	3-14	0 / 61	0.02 (4)
2-3	0 / 17	-77.4	-77.4 0.12 (1)	10.00	14-4	0 / 114	0.04 (4)
3-4	-1374 / 0	-77.4	-77.4 0.15 (1)	5.39	4-13	0 / 672	0.11 (1)
4-5	-1547 / 0	-77.4	-77.4 0.62 (1)	5.38	13-5	-749 / 0	0.67 (1)
5-6	-1547 / 0	-77.4	-77.4 0.62 (1)	5.38	13-6	0 / 672	0.11 (1)
6-7	-1374 / 0	-77.4	-77.4 0.15 (1)	5.39	11-6	0 / 114	0.04 (4)
7-8	0 / 17	-77.4	-77.4 0.12 (1)	10.00	11-7	0 / 61	0.02 (4)
8-9	0 / 34	-77.4	-77.4 0.11 (1)	10.00	15-3	-1585 / 0	0.70 (1)
15-2	-207 / 0	0.0	0.0 0.02 (1)	7.81	7-10	-1585 / 0	0.70 (1)
10-8	-207 / 0	0.0	0.0 0.02 (1)	7.81			
15-14	0 / 1000	-17.5	-17.5 0.29 (4)	10.00			
14-13	0 / 1041	-17.5	-17.5 0.30 (4)	10.00			
13-12	0 / 1041	-17.5	-17.5 0.30 (4)	10.00			
12-11	0 / 1041	-17.5	-17.5 0.30 (4)	10.00			
11-10	0 / 1000	-17.5	-17.5 0.29 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN./C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, CBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.97")
CALCULATED VERT. DEFL.(LL)= L/999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL)= L/999 (0.12")

CSI: TC=0.62/1.00 (4-5:1), BC=0.30/1.00 (13-14:4), WB=0.70/1.00 (3-15:1), SSI=0.30/1.00 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

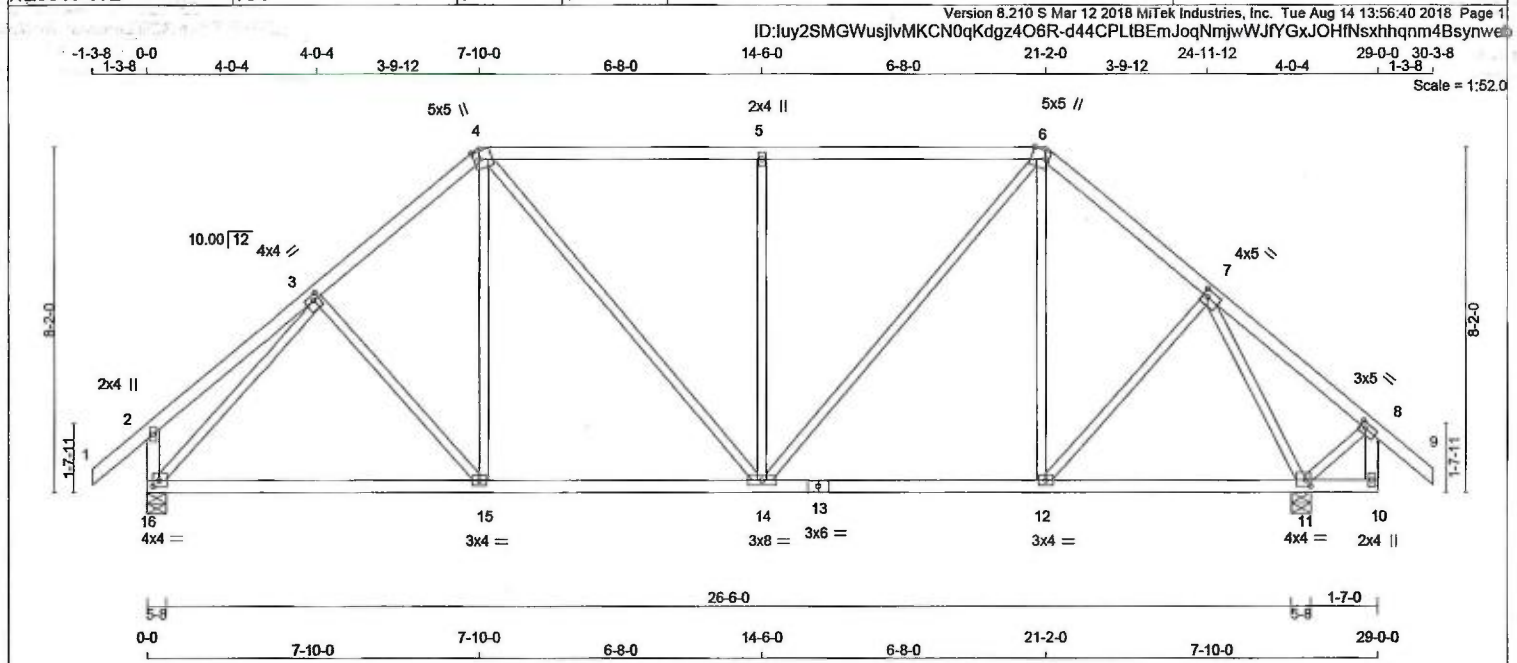
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (3) (INPUT = 0.90)
JSI METAL= 0.47 (3) (INPUT = 1.00)



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





LUMBER N. L. G. A. RULES CHORDS SIZE DRY LUMBER DESCR. TOTAL WEIGHT = 133 lb

CHORDS	SIZE	DRY	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 9	2x4	DRY	No.2	SPF
16 - 2	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
16 - 13	2x4	DRY	No.2	SPF
13 - 10	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
2	TMV+p	MT20	2.0	4.0		
3	TMWW-t	MT20	4.0	4.0	1.50	1.50
4	TTWW+m	MT20	5.0	5.0	2.25	1.50
5	TMV+w	MT20	2.0	4.0		
6	TTWW+m	MT20	5.0	5.0	Edge 4.00	
7	TMWW-t	MT20	4.0	5.0	2.00	1.50
8	TMVW-t	MT20	3.0	5.0	1.50	1.75
10	BMV+p	MT20	2.0	4.0		
11	BMWW-t	MT20	4.0	4.0	1.75	1.25
12	BMWW-t	MT20	3.0	4.0		
13	BS-t	MT20	3.0	6.0		
14	BMWW-t	MT20	3.0	8.0		
15	BMWW-t	MT20	3.0	4.0		
16	BMVW-t	MT20	4.0	4.0	1.75	1.75

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	GROSS REACTION	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
11	1577	0	1577	0	0	5-8	5-8	5-8	5-8
16	1388	0	1388	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
11	1104	787 / 0	0 / 0	0 / 0	0 / 0	317 / 0	0 / 0
16	972	693 / 0	0 / 0	0 / 0	0 / 0	279 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 11, 16

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.32 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)

8-7	-1013 / 0	-77.4	-77.4	0.17 (1)	6.04	12-8	-140 / 39	0.73 (1)
7-8	0 / 193	-77.4	-77.4	0.23 (1)	10.00	12-7	0 / 331	0.07 (1)
8-9	0 / 34	-77.4	-77.4	0.11 (1)	10.00	7-11	-1531 / 0	0.69 (1)
16-2	-223 / 0	0.0	0.0	0.02 (1)	7.81	16-3	-1459 / 0	0.88 (1)
10-8	-20 / 0	0.0	0.0	0.00 (1)	7.81	11-8	-163 / 0	0.03 (1)
16-15	0 / 948	-17.5	-17.5	0.31 (4)	10.00			
15-14	0 / 921	-17.5	-17.5	0.32 (4)	10.00			
14-13	0 / 755	-17.5	-17.5	0.21 (4)	10.00			
13-12	0 / 755	-17.5	-17.5	0.21 (4)	10.00			
12-11	0 / 544	-17.5	-17.5	0.19 (4)	10.00			
11-10	0 / 0	-17.5	-17.5	0.11 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.91")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.91")
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CANTILEVER DEFLECTION:
ALLOWABLE DEFL.(LL) = L/120 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/120 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.47/1.00 (4-5:1), BC=0.32/1.00 (14-15:4), WB=0.88/1.00 (3-16:1), SSI=0.25/1.00 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

CONTINUED ON PAGE 2



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.



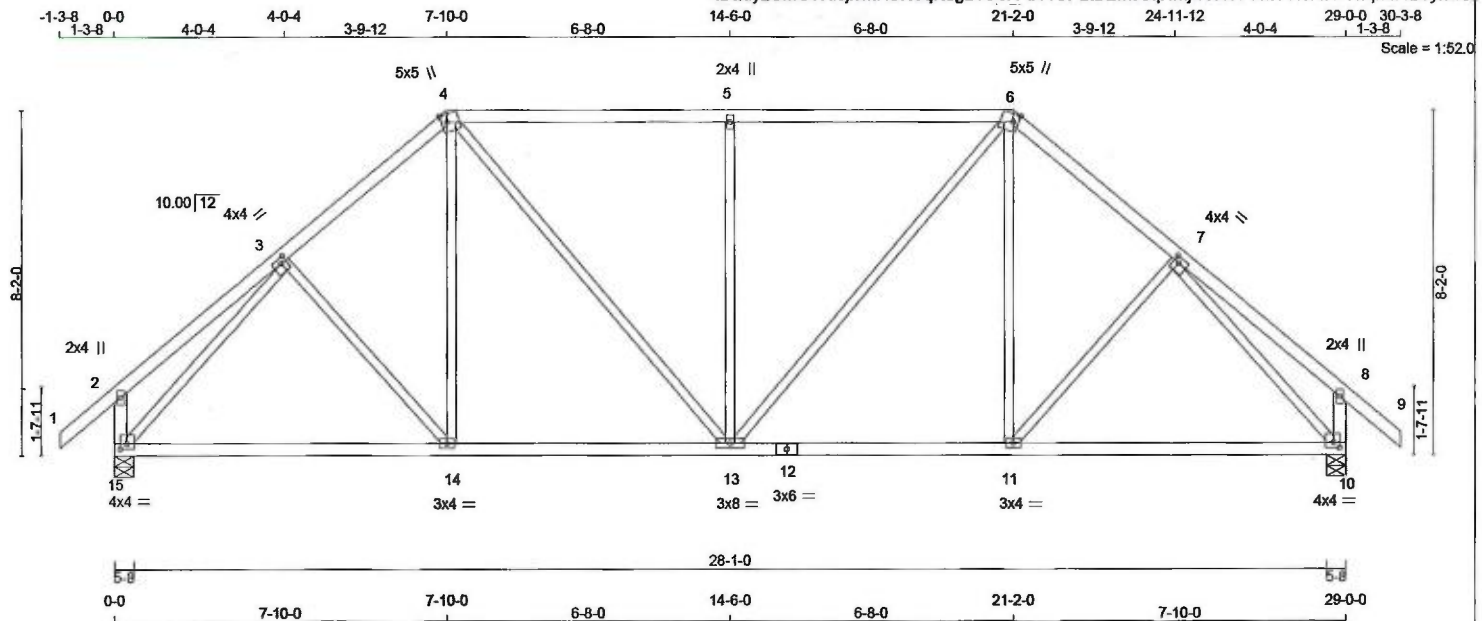
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - MINNISALE HOMES	DRWG NO.
NE0818-072	T04	1	1	TRUSS DESC.	MILLWOOD 3 ELE 2	PAGE 28 OF 41

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Aug 14 13:56:40 2018 Page 2
ID:luy2SMGWusjlvMKCN0qKdgz4O6R-d44CPLtBErJogNmjwWJfYGxJOHfNsxhhqnm4Bsynweb

JSI GRIP= 0.89 (6) (INPUT = 0.90)
JSI METAL= 0.54 (3) (INPUT = 1.00)

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





TOTAL WEIGHT = 132 lb

LUMBER					
N. L. G. A. RULES					
CHORDS	SIZE		LUMBER		DESCR.
1 - 4	2x4	DRY	No.2		SPF
4 - 6	2x4	DRY	No.2		SPF
6 - 9	2x4	DRY	No.2		SPF
15 - 2	2x4	DRY	No.2		SPF
10 - 8	2x4	DRY	No.2		SPF
15 - 12	2x4	DRY	No.2		SPF
12 - 10	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
2	TMV+p	MT20	2.0	4.0	
3	TMWV-I	MT20	4.0	4.0	1.50 1.50
4	TTWV+m	MT20	5.0	5.0	2.25 1.50
5	TMV+w	MT20	2.0	4.0	
6	TTWV+m	MT20	5.0	5.0	2.25 1.50
7	TMWV-I	MT20	4.0	4.0	1.50 1.50
8	TMV+p	MT20	2.0	4.0	
10	BMWV-I	MT20	4.0	4.0	1.50 1.75
11	BMWV-I	MT20	3.0	4.0	
12	BS-I	MT20	3.0	6.0	
13	BMWVWV-I	MT20	3.0	8.0	
14	BMWV-I	MT20	3.0	4.0	
15	BMWV-I	MT20	4.0	4.0	1.50 1.75

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
15	1483	0	1483	0	0	5-8	5-8
10	1483	0	1483	0	0	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
15	1038	740 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0
10	1038	740 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 15, 10

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.03 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY
APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
1-2	0/34	-77.4	-77.4 0.11 (1)	10.00	3-14	-24/42	0.02 (1)
2-3	0/22	-77.4	-77.4 0.18 (1)	10.00	14-4	0/168	0.05 (4)
3-4	-1344/0	-77.4	-77.4 0.16 (1)	5.44	4-13	0/476	0.11 (1)
4-5	-1324/0	-77.4	-77.4 0.47 (1)	5.03	13-5	-633/0	0.82 (1)
5-6	-1324/0	-77.4	-77.4 0.47 (1)	5.03	13-6	0/476	0.11 (1)
6-7	-1344/0	-77.4	-77.4 0.16 (1)	5.44	11-6	0/168	0.05 (4)
7-8	0/22	-77.4	-77.4 0.18 (1)	10.00	11-7	-24/42	0.02 (1)
8-9	0/34	-77.4	-77.4 0.11 (1)	10.00	15-3	-1583/0	0.96 (1)
15-2	-224/0	0.0	0.0 0.02 (1)	7.81	7-10	-1583/0	0.96 (1)
10-8	-224/0	0.0	0.0 0.02 (1)	7.81			
15-14	0/1029	-17.5	-17.5 0.32 (4)	10.00			
14-13	0/1016	-17.5	-17.5 0.33 (4)	10.00			
13-12	0/1016	-17.5	-17.5 0.33 (4)	10.00			
12-11	0/1016	-17.5	-17.5 0.33 (4)	10.00			
11-10	0/1029	-17.5	-17.5 0.32 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	23.3	PSF
	DL =	3.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	33.3	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 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.47/1.00 (4-5:1) , BC=0.33/1.00 (11-13:4)
 , WB=0.96/1.00 (7-10:1) , SSI=0.25/1.00 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY)		SHEAR		SECTION	
	(PSI)	(PLI)	(PSI)	(PLI)	(PSI)	(PLI)
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

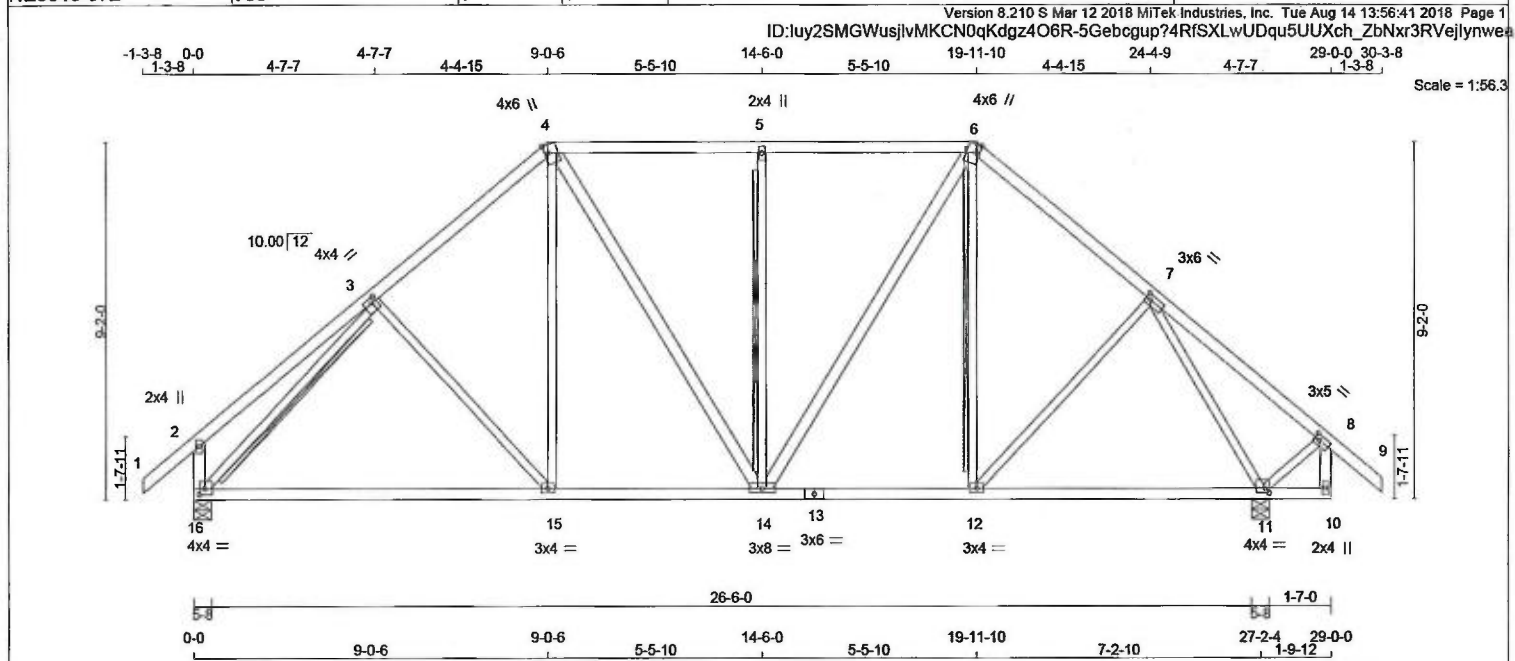
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (3) (INPUT = 0.90)
JSI METAL= 0.58 (3) (INPUT = 1.00)



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





TOTAL WEIGHT = 145 lb [M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY No.2	SPF
4 - 6	2x4	DRY No.2	SPF
6 - 9	2x4	DRY No.2	SPF
16 - 2	2x4	DRY No.2	SPF
10 - 8	2x4	DRY No.2	SPF
16 - 13	2x4	DRY No.2	SPF
13 - 10	2x4	DRY No.2	SPF
ALL WEBS EXCEPT	2x3	DRY No.2	SPF
4 - 14	2x4	DRY No.2	SPF
14 - 6	2x4	DRY No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMWW-l	MT20	4.0	4.0	1.50	1.50
4	TTWW+m	MT20	4.0	6.0	Edge	1.00
5	TMW+w	MT20	2.0	4.0		
6	TTWW+m	MT20	4.0	6.0	Edge	1.00
7	TMWW-l	MT20	3.0	6.0	1.50	1.50
8	TMV-l	MT20	3.0	5.0	1.50	1.75
10	BMV+p	MT20	2.0	4.0		
11	BMWW-l	MT20	4.0	4.0	1.50	1.25
12	BMWW-l	MT20	3.0	4.0		
13	BS-l	MT20	3.0	6.0		
14	BMWW-l	MT20	3.0	8.0		
15	BMWW-l	MT20	3.0	4.0		
16	BMV-l	MT20	4.0	4.0	1.75	1.75

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
11	1577	0	1577	0	5-8	5-8
16	1389	0	1389	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE MAX./MIN. COMPONENT REACTIONS						
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
11	1104	787 / 0	0 / 0	0 / 0	0 / 0	317 / 0	0 / 0
16	972	693 / 0	0 / 0	0 / 0	0 / 0	279 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 11, 16

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.65 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 5-14, 6-12, 3-16

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)	FACTORED LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH FR-TO	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO			
1-2	0 / 34	-77.4 -77.4	0.11 (1)	10.00	3-15	-119 / 22	0.10 (1)
2-3	0 / 26	-77.4 -77.4	0.25 (1)	10.00	15-4	0 / 251	0.06 (4)
3-4	-1178 / 0	-77.4 -77.4	0.22 (1)	5.65	4-14	0 / 222	0.04 (1)
4-5	-1003 / 0	-77.4 -77.4	0.31 (1)	5.86	14-5	-517 / 0	0.32 (1)
5-6	-1003 / 0	-77.4 -77.4	0.31 (1)	5.86	14-6	0 / 458	0.07 (1)
6-7	-1024 / 0	-77.4 -77.4	0.22 (1)	5.94	12-6	-41 / 70	0.03 (1)
7-8	0 / 197	-77.4 -77.4	0.29 (1)	10.00	12-7	0 / 212	0.05 (1)
8-9	0 / 34	-77.4 -77.4	0.11 (1)	10.00	7-11	-1540 / 0	0.95 (1)
16-2	-240 / 0	0.0 0.0	0.03 (1)	7.81	16-3	-1450 / 0	0.49 (1)
10-8	-36 / 0	0.0 0.0	0.00 (4)	7.81	11-8	-164 / 3	0.03 (1)
16-15	0 / 964	-17.5 -17.5	0.38 (4)	10.00			
15-14	0 / 886	-17.5 -17.5	0.38 (4)	10.00			
14-13	0 / 762	-17.5 -17.5	0.22 (4)	10.00			
13-12	0 / 762	-17.5 -17.5	0.22 (4)	10.00			
12-11	0 / 623	-17.5 -17.5	0.22 (1)	10.00			
11-10	0 / 0	-17.5 -17.5	0.17 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 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 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.91")
CALCULATED VERT. DEFL.(LL)= L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.91")
CALCULATED VERT. DEFL.(TL)= L/999 (0.20")

CANTILEVER DEFLECTION:
ALLOWABLE DEFL.(LL)= L/120 (0.19")
CALCULATED VERT. DEFL.(LL)= L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/120 (0.19")
CALCULATED VERT. DEFL.(TL)= L/999 (0.01")

CSI: TC=0.31/1.00 (4-5:1), BC=0.38/1.00 (14-15:4), WB=0.95/1.00 (7-11:1), SSI=0.20/1.00 (4-5:1)

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

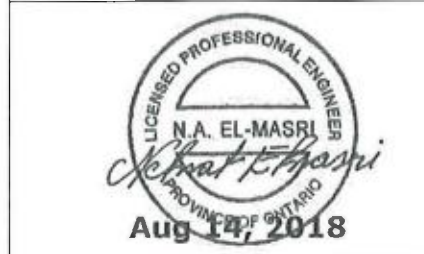
COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.

CONTINUED ON PAGE 2



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.

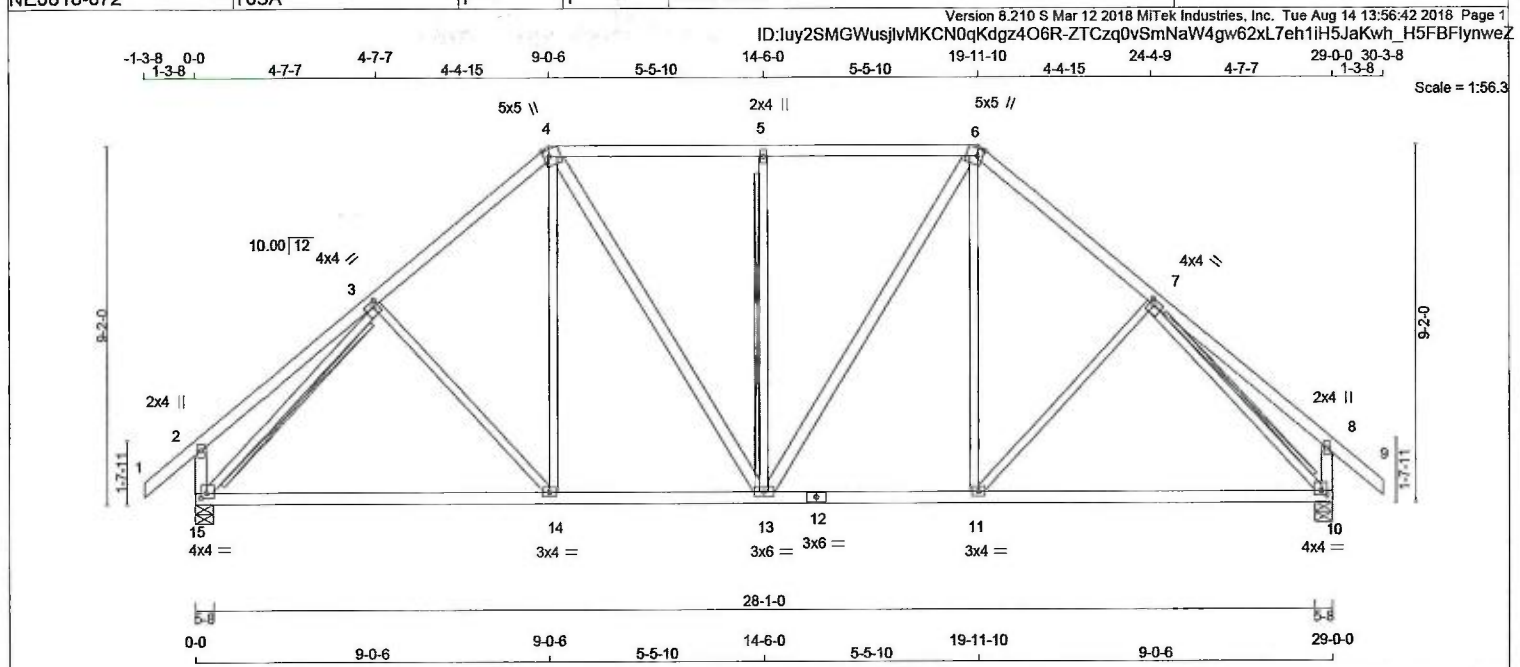


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0818-072	T05	1	1	GREENPARK - MINNISALE HOMES MILLWOOD 3 ELE 2	PAGE 31 OF 41
Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Aug 14 13:56:41 2018 Page 2 ID:luy2SMGWusjlvMKCN0gKdgz4O6R-5Gebcup?4RfSXLwUDqu5UUXch_ZbNxr3Rvejlynwea					

JSI GRIP= 0.90 (7) (INPUT = 0.90)
JSI METAL= 0.54 (3) (INPUT = 1.00)

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





TOTAL WEIGHT = 144 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 9	2x4	DRY	No.2	SPF
15 - 2	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
12 - 10	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
4 - 13	2x4	DRY	No.2	SPF
13 - 6	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMWW-t	MT20	4.0	4.0	1.50	1.50
4	TTWW+m	MT20	5.0	5.0	2.25	1.50
5	TMW+w	MT20	2.0	4.0		
6	TTWW+m	MT20	5.0	5.0	2.25	1.50
7	TMWW-t	MT20	4.0	4.0	1.50	1.50
8	TMV+p	MT20	2.0	4.0		
10	BMVW-t	MT20	4.0	4.0	1.50	1.75
11	BMWW-t	MT20	3.0	4.0		
12	BS-t	MT20	3.0	6.0		
13	BMVW-t	MT20	3.0	6.0		
14	BMWW-t	MT20	3.0	4.0		
15	BMVW-t	MT20	4.0	4.0	1.50	1.75

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
15	1483	0	1483	0	5-8	5-8
10	1483	0	1483	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX/MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
15	1038	740 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0
10	1038	740 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 15, 10

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.43 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

2x4 DRY SPF No.2 T-BRACE AT 5-13, 3-15, 7-10

FASTEN T AND L-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)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)		MAX. VERT. LOAD (LC) (1)	MAX. UNBRACED LENGTH (FR-TO)	MEMB. FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. VERT. LOAD (LC) (1)
		FROM	TO					
FR-TO								
1-2	0 / 34	-77.4	-77.4	0.11 (1)	10.00	3-14	-101 / 27	0.09 (1)
2-3	0 / 26	-77.4	-77.4	0.25 (1)	10.00	14-4	0 / 241	0.06 (4)
3-4	-1304 / 0	-77.4	-77.4	0.22 (1)	5.43	4-13	0 / 328	0.05 (1)
4-5	-1154 / 0	-77.4	-77.4	0.31 (1)	5.55	13-5	-516 / 0	0.32 (1)
5-6	-1154 / 0	-77.4	-77.4	0.31 (1)	5.55	13-6	0 / 328	0.05 (1)
6-7	-1304 / 0	-77.4	-77.4	0.22 (1)	5.43	11-6	0 / 241	0.06 (4)
7-8	0 / 26	-77.4	-77.4	0.25 (1)	10.00	11-7	-101 / 27	0.09 (1)
8-9	0 / 34	-77.4	-77.4	0.11 (1)	10.00	15-3	-1576 / 0	0.53 (1)
15-2	-240 / 0	0.0	0.0	0.03 (1)	7.81	7-10	-1576 / 0	0.53 (1)
10-8	-240 / 0	0.0	0.0	0.03 (1)	7.81			
15-14	0 / 1047	-17.5	-17.5	0.39 (4)	10.00			
14-13	0 / 982	-17.5	-17.5	0.40 (4)	10.00			
13-12	0 / 982	-17.5	-17.5	0.40 (4)	10.00			
12-11	0 / 982	-17.5	-17.5	0.40 (4)	10.00			
11-10	0 / 1047	-17.5	-17.5	0.39 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 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 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, CBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")

CSI: TC=0.31/1.00 (4-5:1), BC=0.40/1.00 (11-13:4), WB=0.53/1.00 (7-10:1), SSI=0.20/1.00 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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 618 354 1667 822 2284 1658

PLATE PLACEMENT TOL. = 0.250 inches

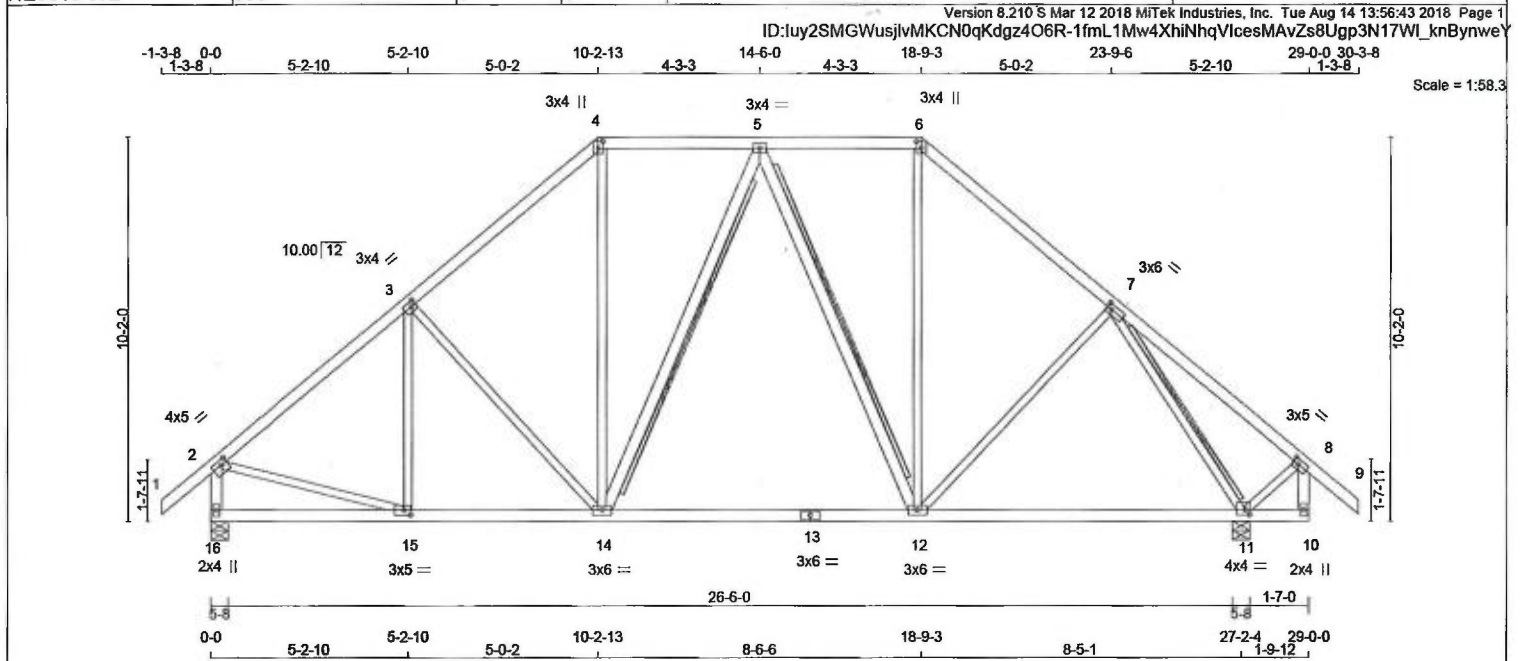
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (7) (INPUT = 0.90)
JSI METAL= 0.58 (3) (INPUT = 1.00)



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





LUMBER N. L. G. A. RULES <table><tr><th>CHORDS</th><th>SIZE</th><th>LUMBER</th><th>DESCR.</th></tr><tr><td>1 - 4</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>4 - 6</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>6 - 9</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>16 - 2</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>10 - 8</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>16 - 13</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>13 - 10</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>ALL WEBS</td><td>2x3</td><td>DRY</td><td>No.2</td></tr><tr><td>EXCEPT</td><td></td><td></td><td></td></tr><tr><td>14 - 5</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>5 - 12</td><td>2x4</td><td>DRY</td><td>No.2</td></tr></table> DRY: SEASONED LUMBER.										CHORDS	SIZE	LUMBER	DESCR.	1 - 4	2x4	DRY	No.2	4 - 6	2x4	DRY	No.2	6 - 9	2x4	DRY	No.2	16 - 2	2x4	DRY	No.2	10 - 8	2x4	DRY	No.2	16 - 13	2x4	DRY	No.2	13 - 10	2x4	DRY	No.2	ALL WEBS	2x3	DRY	No.2	EXCEPT				14 - 5	2x4	DRY	No.2	5 - 12	2x4	DRY	No.2	DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><th>FACTORED GROSS REACTION</th><th>MAXIMUM FACTORED GROSS REACTION</th><th>INPUT BRG</th><th>REQRD BRG</th></tr><tr><th>JT VERT HORZ</th><th>JT VERT HORZ</th><th>DOWN HORZ</th><th>UPLIFT IN-SX</th></tr><tr><td>16 1389 0</td><td>1389 0</td><td>0 0</td><td>5-8 5-8</td></tr><tr><td>11 1576 0</td><td>1576 0</td><td>0 0</td><td>5-8 5-8</td></tr></table> UNFACTORED REACTIONS <table><tr><th>1ST LCASE</th><th>MAX./MIN. COMPONENT REACTIONS</th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><th>JT COMBINED</th><th>SNOW</th><th>LIVE</th><th>PERM.LIVE</th><th>WIND</th><th>DEAD</th><th>SOIL</th><th></th></tr><tr><td>16 973</td><td>693 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>280 / 0</td><td>0 / 0</td><td></td></tr><tr><td>11 1104</td><td>786 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>317 / 0</td><td>0 / 0</td><td></td></tr></table> BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16, 11 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.39 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 5-14, 5-12, 7-11 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) <table><tr><th colspan="4">CHORDS</th><th colspan="4">WEBS</th></tr><tr><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>FACTORED VERT. LOAD (PLF)</th><th>MAX LC1 (LC)</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>MAX LC1 (LC)</th><th></th></tr><tr><td>FR-TO</td><td></td><td>FROM TO</td><td></td><td>FR-TO</td><td></td><td></td><td></td></tr><tr><td>1-2</td><td>0 / 34</td><td>-77.4 -77.4</td><td>0.11 (1)</td><td>10.00</td><td>15-3</td><td>-163 / 28</td><td>0.09 (1)</td></tr><tr><td>2-3</td><td>-1277 / 0</td><td>-77.4 -77.4</td><td>0.29 (1)</td><td>5.39</td><td>3-14</td><td>-255 / 0</td><td>0.30 (1)</td></tr><tr><td>3-4</td><td>-1117 / 0</td><td>-77.4 -77.4</td><td>0.28 (1)</td><td>5.68</td><td>14-4</td><td>0 / 421</td><td>0.09 (1)</td></tr><tr><td>4-5</td><td>-837 / 0</td><td>-77.4 -77.4</td><td>0.18 (1)</td><td>6.25</td><td>14-5</td><td>-119 / 0</td><td>0.10 (1)</td></tr><tr><td>5-6</td><td>-761 / 0</td><td>-77.4 -77.4</td><td>0.18 (1)</td><td>6.25</td><td>5-12</td><td>-314 / 0</td><td>0.26 (1)</td></tr><tr><td>6-7</td><td>-1020 / 0</td><td>-77.4 -77.4</td><td>0.28 (1)</td><td>5.87</td><td>12-6</td><td>0 / 360</td><td>0.08 (1)</td></tr><tr><td>7-8</td><td>-8 / 205</td><td>-77.4 -77.4</td><td>0.37 (1)</td><td>10.00</td><td>12-7</td><td>0 / 110</td><td>0.02 (1)</td></tr><tr><td>8-9</td><td>0 / 34</td><td>-77.4 -77.4</td><td>0.11 (1)</td><td>10.00</td><td>7-11</td><td>-1554 / 0</td><td>0.52 (1)</td></tr><tr><td>16-2</td><td>-1349 / 0</td><td>0.0 0.0</td><td>0.14 (1)</td><td>6.98</td><td>2-15</td><td>0 / 1034</td><td>0.23 (1)</td></tr><tr><td>10-8</td><td>-48 / 0</td><td>0.0 0.0</td><td>0.01 (4)</td><td>7.81</td><td>11-8</td><td>-169 / 11</td><td>0.03 (1)</td></tr><tr><td>16-15</td><td>0 / 0</td><td>-17.5 -17.5</td><td>0.10 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>15-14</td><td>0 / 1004</td><td>-17.5 -17.5</td><td>0.26 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>14-13</td><td>0 / 883</td><td>-17.5 -17.5</td><td>0.33 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>13-12</td><td>0 / 883</td><td>-17.5 -17.5</td><td>0.33 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>12-11</td><td>0 / 683</td><td>-17.5 -17.5</td><td>0.32 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>11-10</td><td>0 / 0</td><td>-17.5 -17.5</td><td>0.21 (4)</td><td>10.00</td><td></td><td></td><td></td></tr></table>										FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG	JT VERT HORZ	JT VERT HORZ	DOWN HORZ	UPLIFT IN-SX	16 1389 0	1389 0	0 0	5-8 5-8	11 1576 0	1576 0	0 0	5-8 5-8	1ST LCASE	MAX./MIN. COMPONENT REACTIONS							JT COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		16 973	693 / 0	0 / 0	0 / 0	0 / 0	280 / 0	0 / 0		11 1104	786 / 0	0 / 0	0 / 0	0 / 0	317 / 0	0 / 0		CHORDS				WEBS				MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)		FR-TO		FROM TO		FR-TO				1-2	0 / 34	-77.4 -77.4	0.11 (1)	10.00	15-3	-163 / 28	0.09 (1)	2-3	-1277 / 0	-77.4 -77.4	0.29 (1)	5.39	3-14	-255 / 0	0.30 (1)	3-4	-1117 / 0	-77.4 -77.4	0.28 (1)	5.68	14-4	0 / 421	0.09 (1)	4-5	-837 / 0	-77.4 -77.4	0.18 (1)	6.25	14-5	-119 / 0	0.10 (1)	5-6	-761 / 0	-77.4 -77.4	0.18 (1)	6.25	5-12	-314 / 0	0.26 (1)	6-7	-1020 / 0	-77.4 -77.4	0.28 (1)	5.87	12-6	0 / 360	0.08 (1)	7-8	-8 / 205	-77.4 -77.4	0.37 (1)	10.00	12-7	0 / 110	0.02 (1)	8-9	0 / 34	-77.4 -77.4	0.11 (1)	10.00	7-11	-1554 / 0	0.52 (1)	16-2	-1349 / 0	0.0 0.0	0.14 (1)	6.98	2-15	0 / 1034	0.23 (1)	10-8	-48 / 0	0.0 0.0	0.01 (4)	7.81	11-8	-169 / 11	0.03 (1)	16-15	0 / 0	-17.5 -17.5	0.10 (4)	10.00				15-14	0 / 1004	-17.5 -17.5	0.26 (1)	10.00				14-13	0 / 883	-17.5 -17.5	0.33 (4)	10.00				13-12	0 / 883	-17.5 -17.5	0.33 (4)	10.00				12-11	0 / 683	-17.5 -17.5	0.32 (4)	10.00				11-10	0 / 0	-17.5 -17.5	0.21 (4)	10.00				DESIGN CRITERIA SPECIFIED LOADS: <table><tr><td>TOP CH.</td><td>LL =</td><td>23.3</td><td>PSF</td></tr><tr><td></td><td>DL =</td><td>3.0</td><td>PSF</td></tr><tr><td>BOT CH.</td><td>LL =</td><td>0.0</td><td>PSF</td></tr><tr><td></td><td>DL =</td><td>7.0</td><td>PSF</td></tr><tr><td>TOTAL LOAD</td><td>=</td><td>33.3</td><td>PSF</td></tr></table> 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 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.91") CALCULATED VERT. DEFL.(LL) = L/999 (0.04") ALLOWABLE DEFL.(TL)= L/360 (0.91") CALCULATED VERT. DEFL.(TL) = L/999 (0.12") CANTILEVER DEFLECTION: ALLOWABLE DEFL.(LL)= L/120 (0.19") CALCULATED VERT. DEFL.(LL) = L/999 (0.01") ALLOWABLE DEFL.(TL)= L/120 (0.19") CALCULATED VERT. DEFL.(TL) = L/999 (0.01") CSI: TC=0.37/1.00 (7-8:1), BC=0.33/1.00 (12-14:4), WB=0.52/1.00 (7-11:1), SSI=0.16/1.00 (5-6:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT. NAIL VALUES <table><tr><th>PLATE</th><th>GRIP(DRY)</th><th>SHEAR</th><th>SECTION</th></tr><tr><th></th><th>(PSI)</th><th>(PLI)</th><th>(PLI)</th></tr><tr><th></th><th>MAX</th><th>MIN</th><th>MAX</th></tr><tr><td>MT20</td><td>618</td><td>354</td><td>1667</td></tr><tr><td></td><td>822</td><td>2284</td><td>1656</td></tr></table> PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg.										TOP CH.	LL =	23.3	PSF		DL =	3.0	PSF	BOT CH.	LL =	0.0	PSF		DL =	7.0	PSF	TOTAL LOAD	=	33.3	PSF	PLATE	GRIP(DRY)	SHEAR	SECTION		(PSI)	(PLI)	(PLI)		MAX	MIN	MAX	MT20	618	354	1667		822	2284	1656
CHORDS	SIZE	LUMBER	DESCR.																																																																																																																																																																																																																																																																																																																										
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LICENSED PROFESSIONAL ENGINEER

N.A. EL-MASRI

PROVINCE OF ONTARIO

Aug 14, 2018

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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CONTINUED ON PAGE 2



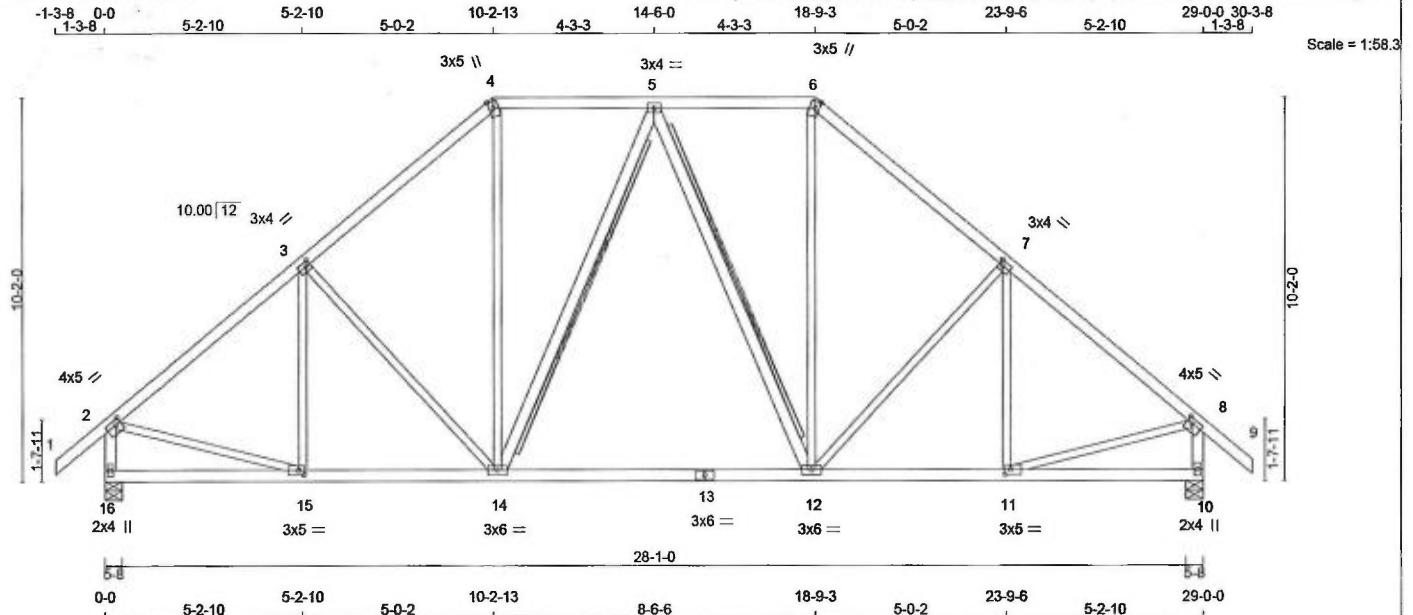
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0818-072	T06	1	1	GREENPARK - MINNISALE HOMES MILLWOOD 3 ELE 2	PAGE 34 OF 41
TRUSS DESC.					

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Aug 14 13:56:43 2018 Page 2
ID:luy2SMGWusjivMKCN0gKdgz4O6R-1fmL1Mw4XhiNhqVicesMAvZs8Ugp3N17WI_knBynweY

JSI GRIP= 0.90 (7) (INPUT = 0.90)
JSI METAL= 0.44 (2) (INPUT = 1.00)

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





TOTAL WEIGHT = 148 lb
 (M/JF)

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF	
4 - 6	2x4	DRY	No.2	SPF	
6 - 9	2x4	DRY	No.2	SPF	
16 - 2	2x4	DRY	No.2	SPF	
10 - 8	2x4	DRY	No.2	SPF	
16 - 13	2x4	DRY	No.2	SPF	
13 - 10	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	
14 - 5	2x4	DRY	No.2	SPF	
5 - 12	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	4.0	5.0	1.50	1.75
3	TMVW-t	MT20	3.0	4.0	1.50	1.25
4	TTW+m	MT20	3.0	5.0	2.25	1.25
5	TMVW-t	MT20	3.0	4.0		
6	TTW+m	MT20	3.0	5.0	2.25	1.25
7	TMVW-t	MT20	3.0	4.0	1.50	1.25
8	TMVW-t	MT20	4.0	5.0	1.50	1.75
10	BMV1+p	MT20	2.0	4.0		
11	BMVW-t	MT20	3.0	5.0	1.50	1.75
12	BMVW-t	MT20	3.0	6.0		
13	BS-t	MT20	3.0	6.0		
14	BMVW-t	MT20	3.0	6.0		
15	BMVW-t	MT20	3.0	5.0	1.50	1.75
16	BMV1+p	MT20	2.0	4.0		

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
16	1483	0	1483	0	0	5-8	5-8		
10	1483	0	1483	0	0	5-8	5-8		

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
16	1038	740 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0
10	1038	740 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16, 10

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.21 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 5-14, 5-12

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC1)
FR-TO		FROM TO	CSI (LC)	FR-TO		FROM TO	CSI (LC)
1-2	0 / 34	-77.4 -77.4	0.11 (1)	10.00	15-3	-187 / 19	0.10 (1)
2-3	-1388 / 0	-77.4 -77.4	0.30 (1)	5.21	3-14	-237 / 0	0.28 (1)
3-4	-1245 / 0	-77.4 -77.4	0.29 (1)	5.44	14-4	0 / 502	0.11 (1)
4-5	-935 / 0	-77.4 -77.4	0.18 (1)	6.20	14-5	-215 / 0	0.18 (1)
5-6	-935 / 0	-77.4 -77.4	0.18 (1)	6.20	5-12	-215 / 0	0.18 (1)
6-7	-1245 / 0	-77.4 -77.4	0.29 (1)	5.44	12-6	0 / 502	0.11 (1)
7-8	-1388 / 0	-77.4 -77.4	0.30 (1)	5.21	12-7	-237 / 0	0.28 (1)
8-9	0 / 34	-77.4 -77.4	0.11 (1)	10.00	11-7	-187 / 19	0.10 (1)
16-2	-1442 / 0	0.0 0.0	0.15 (1)	6.81	2-15	0 / 1123	0.25 (1)
10-8	-1442 / 0	0.0 0.0	0.15 (1)	6.81	11-8	0 / 1123	0.25 (1)
16-15	0 / 0	-17.5 -17.5	0.10 (4)	10.00			
15-14	0 / 1089	-17.5 -17.5	0.29 (1)	10.00			
14-13	0 / 1019	-17.5 -17.5	0.27 (1)	10.00			
13-12	0 / 1019	-17.5 -17.5	0.27 (1)	10.00			
12-11	0 / 1089	-17.5 -17.5	0.29 (1)	10.00			
11-10	0 / 0	-17.5 -17.5	0.10 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 3.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.0	PSF
TOTAL LOAD	= 33.3	PSF

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, CBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.97")
 CALCULATED VERT. DEFL.(LL)= L/999 (0.04")
 ALLOWABLE DEFL.(TL)= L/360 (0.97")
 CALCULATED VERT. DEFL.(TL)= L/999 (0.15")

CSI: TC=0.30/1.00 (7-8:1), BC=0.29/1.00 (11-12:1), WB=0.28/1.00 (7-12:1), SSI=0.16/1.00 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX	MIN	MAX	MIN
MT20	618	354	1667
	822	2284	1658

PLATE PLACEMENT TOL. = 0.250 inches

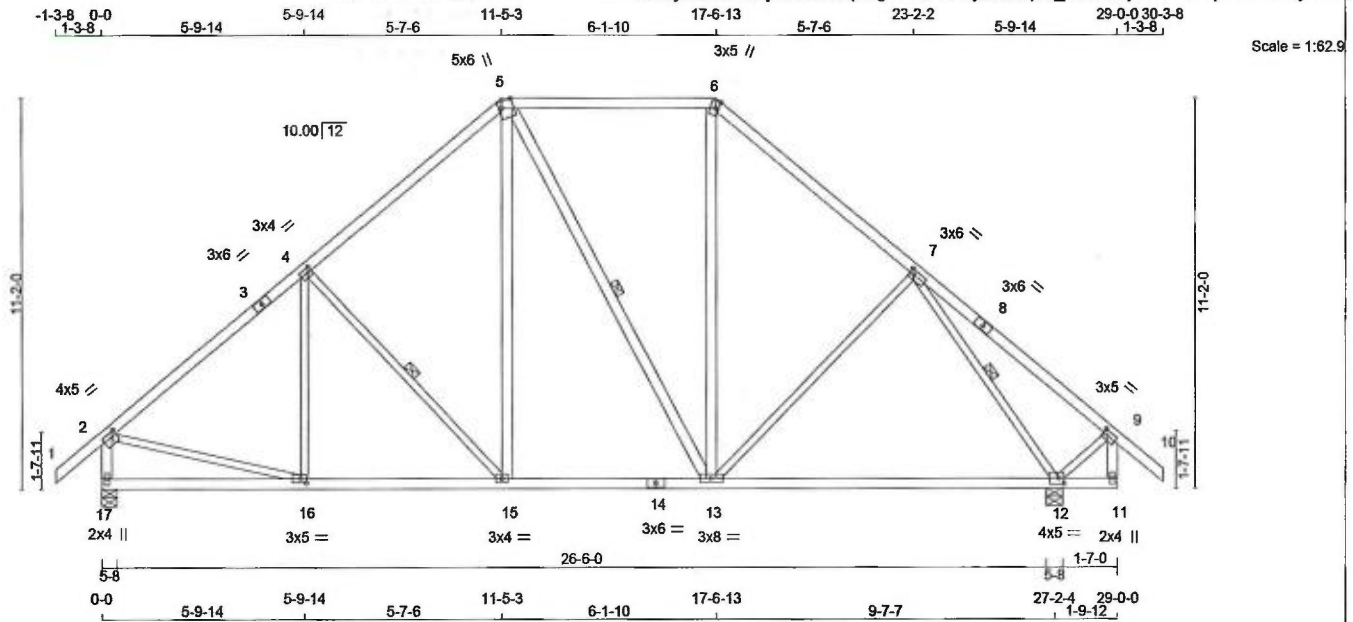
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (11) (INPUT = 0.90)
 JSI METAL= 0.48 (2) (INPUT = 1.00)



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





TOTAL WEIGHT = 3 X 149 = 446 LB [M/JF]

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
1 - 3	2x4	DRY	No.2
3 - 5	2x4	DRY	No.2
5 - 6	2x4	DRY	No.2
6 - 8	2x4	DRY	No.2
8 - 10	2x4	DRY	No.2
17 - 2	2x4	DRY	No.2
11 - 9	2x4	DRY	No.2
17 - 14	2x4	DRY	No.2
14 - 11	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
15 - 5	2x4	DRY	No.2
5 - 13	2x4	DRY	No.2
13 - 6	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-I	MT20	4.0	5.0	1.50	1.75
3	TS-I	MT20	3.0	6.0		
4	BMVW-I	MT20	3.0	4.0	1.50	1.25
5	TTWW+m	MT20	5.0	6.0	Edge	4.00
6	TTW+m	MT20	3.0	5.0	Edge	1.00
7	TMVW-I	MT20	3.0	6.0		
8	TS-I	MT20	3.0	6.0		
9	TMVW-I	MT20	3.0	5.0	1.50	1.75
11	BMV+p	MT20	2.0	4.0		
12	BMVW-I	MT20	4.0	5.0	2.00	1.75
13	BMVW-I	MT20	3.0	8.0		
14	BS-I	MT20	3.0	6.0		
15	BMVW-I	MT20	3.0	4.0		
16	BMVW-I	MT20	3.0	5.0	1.50	2.00
17	BMV-I+p	MT20	2.0	4.0		

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
17	1390	0	1390	0	0	5-8	5-8		
12	1576	0	1576	0	0	5-8	5-8		

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL				
17	973	693 / 0	0 / 0	0 / 0	0 / 0	280 / 0	0 / 0				
12	1103	786 / 0	0 / 0	0 / 0	0 / 0	317 / 0	0 / 0				

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 17, 12

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.27 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 4-15, 5-13, 7-12. DBS = 20-0-0. CBF = 193 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		FACTORED		WEBS		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	CSI (LC)	MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	CSI (LC)
FR-TO		FROM TO		FR-TO			
1-2	0 / 34	-77.4	-77.4 0.11 (1)	10-00	16-4	-111 / 65	0.08 (1)
2-3	-1282 / 0	-77.4	-77.4 0.38 (1)	5-27	4-15	-340 / 0	0.16 (1)
3-4	-1282 / 0	-77.4	-77.4 0.38 (1)	5-27	15-5	0 / 333	0.05 (1)
4-5	-1051 / 0	-77.4	-77.4 0.35 (1)	5-71	5-13	-92 / 0	0.08 (1)
5-6	-739 / 0	-77.4	-77.4 0.38 (1)	6-25	13-6	0 / 217	0.04 (4)
6-7	-995 / 0	-77.4	-77.4 0.35 (1)	5-82	13-7	0 / 42	0.01 (4)
7-8	-31 / 201	-77.4	-77.4 0.46 (1)	6-25	7-12	-1542 / 0	0.58 (1)
8-9	-31 / 201	-77.4	-77.4 0.46 (1)	6-25	2-16	0 / 1036	0.23 (1)
9-10	0 / 34	-77.4	-77.4 0.11 (1)	10-00	12-9	-161 / 33	0.03 (1)
17-2	-1348 / 0	0.0	0.0 0.14 (1)	6-98			
11-9	-74 / 0	0.0	0.0 0.01 (4)	7-81			
17-16	0 / 0	-17.5	-17.5 0.15 (4)	10-00			
18-15	0 / 1011	-17.5	-17.5 0.24 (1)	10-00			
15-14	0 / 783	-17.5	-17.5 0.32 (4)	10-00			
14-13	0 / 783	-17.5	-17.5 0.32 (4)	10-00			
13-12	0 / 728	-17.5	-17.5 0.37 (4)	10-00			
12-11	0 / 0	-17.5	-17.5 0.32 (4)	10-00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
DL = 3.0	PSF	
BOT CH.	LL = 0.0	PSF
DL = 7.0	PSF	
TOTAL LOAD = 33.3	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 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.91")
CALCULATED VERT. DEFL.(LL)= L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.91")
CALCULATED VERT. DEFL.(TL)= L/999 (0.14")

CANTILEVER DEFLECTION:
ALLOWABLE DEFL.(LL)= L/120 (0.19")
CALCULATED VERT. DEFL.(LL)= L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/120 (0.19")
CALCULATED VERT. DEFL.(TL)= L/999 (0.01")

CSI: TC=0.46/1.00 (7-9:1), BC=0.37/1.00 (12-13:4), WB=0.58/1.00 (7-12:1), SSI=0.19/1.00 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

CONTINUED ON PAGE 2



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.



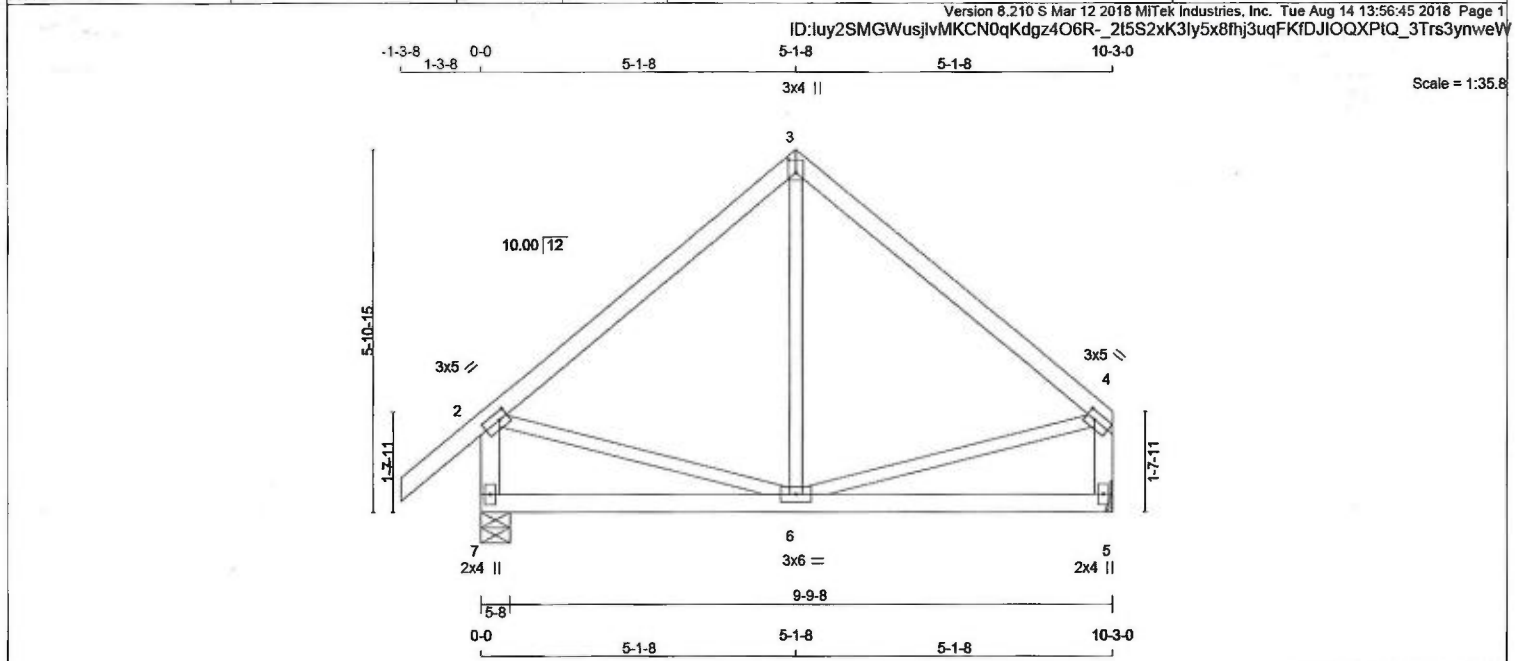
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - MINNISALE HOMES -	DRWG NO.
NE0818-072	T07	3	1	TRUSS DESC.	MILLWOOD 3 ELE 2	PAGE 37 OF 41

Version 8.210 S Mar 12 2018 MITek Industries, Inc. Tue Aug 14 13:56:45 2018 Page 2
ID:luy2SMGWusjlvMKN0qKdgz4O6R- 2l5S2xK3ly5x8fhj3uqFKfAHlIXGiQ_3Trs3ynweW

JSI GRIP= 0.89 (7) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)

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





TOTAL WEIGHT = 2 X 44 = 89 lb [M]F

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
7 - 2	2x4	DRY	No.2	SPF
5 - 4	2x4	DRY	No.2	SPF
7 - 5	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
2	TMVW-t	MT20	3.0	5.0	1.50	1.75
3	TTW+p	MT20	3.0	4.0	2.50	1.50
4	TMVW-t	MT20	3.0	5.0	1.50	1.75
5	BMV1+p	MT20	2.0	4.0		
6	BMVWW-t	MT20	3.0	6.0		
7	BMV1+p	MT20	2.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
7	593	0	593	0	5-8	5-8
5	486	0	486	0	MECHANICAL	

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 5 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
7	414	303 / 0	0 / 0	0 / 0	0 / 0	111 / 0	0 / 0
5	341	239 / 0	0 / 0	0 / 0	0 / 0	103 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED (LBS)	MAX. FACTORED CSI (LC)		
FR-TO		FROM	TO		FR-TO				
1-2	0 / 34	-77.4	-77.4	0.11 (1)	10.00	6-3	-8 / 86	0.03 (4)	
2-3	-303 / 0	-77.4	-77.4	0.26 (1)	6.25	2-6	0 / 241	0.05 (1)	
3-4	-303 / 0	-77.4	-77.4	0.26 (1)	6.25	6-4	0 / 241	0.05 (1)	
7-2	-559 / 0	0.0	0.0	0.06 (1)	7.81				
5-4	-452 / 0	0.0	0.0	0.05 (1)	7.81				
7-6	0 / 0	-17.5	-17.5	0.13 (4)	10.00				
6-5	0 / 0	-17.5	-17.5	0.13 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.34")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.34")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.26/1.00 (2-3:1), BC=0.13/1.00 (5-6:4), WB=0.05/1.00 (4-6:1), SSI=0.12/1.00 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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 618 354 1667 822 2284 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

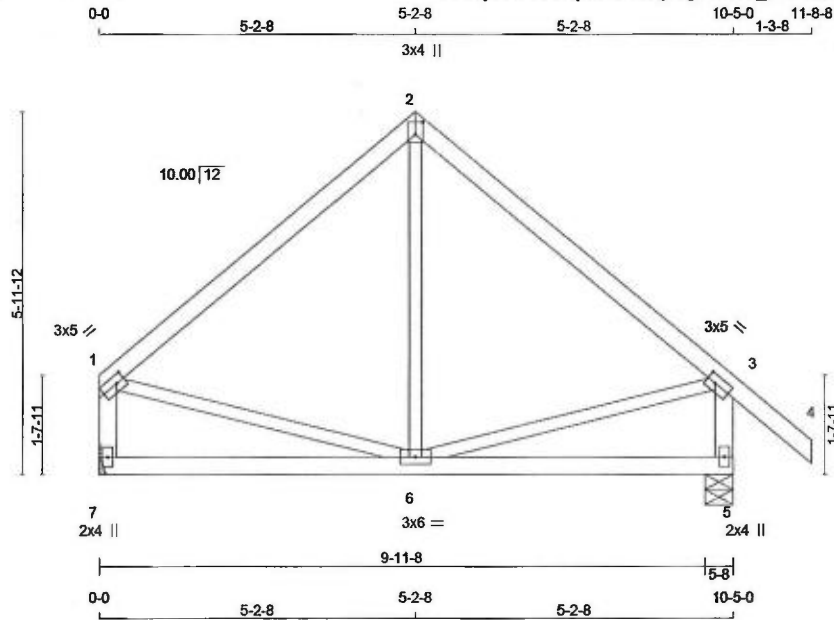
JSI GRIP= 0.49 (2) (INPUT = 0.90)
JSI METAL = 0.15 (2) (INPUT = 1.00)



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



Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Aug 14 13:56:45 2018 Page 1
ID:luy2SMGWusjivMKCN0qKdgz4O6R_2t5S2xK3ly5x8fhj3uqFkFDBIOMXPsQ_3Trs3ynweW



Scale = 1:36.2

TOTAL WEIGHT = 45 lb

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
1 - 2	2x4	DRY	No.2
2 - 4	2x4	DRY	No.2
7 - 1	2x4	DRY	No.2
5 - 3	2x4	DRY	No.2
7 - 5	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
1	TMVW-I	MT20	3.0	5.0	1.50	1.75
2	TTW+p	MT20	3.0	4.0	2.50	1.50
3	TMVW-I	MT20	3.0	5.0	1.50	1.75
5	BMV1+p	MT20	2.0	4.0		
6	BMVWW-I	MT20	3.0	6.0		
7	BMV1+p	MT20	2.0	4.0		

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	HORZ	GROSS REACTION	GROSS REACTION	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
7	494	0	494	0	0	0	0	MECHANICAL	
5	601	0	601	0	0	0	0	5-8	

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 7 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
7	COMBINED	243 / 0	0 / 0	0 / 0	0 / 0	0 / 0	104 / 0	0 / 0
5	420	307 / 0	0 / 0	0 / 0	0 / 0	0 / 0	112 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5

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)	UNBRACED LENGTH (FR-TO)
1-2	-310 / 0	-77.4	-77.4 0.27 (1)	6-2	-7 / 88	0.03 (4)	6.25
2-3	-310 / 0	-77.4	-77.4 0.27 (1)	1-6	0 / 245	0.06 (1)	6.25
3-4	0 / 34	-77.4	-77.4 0.11 (1)	6-3	0 / 245	0.06 (1)	10.00
7-1	-459 / 0	0.0	0.0 0.05 (1)				7.81
5-3	-566 / 0	0.0	0.0 0.06 (1)				7.81
7-6	0 / 0	-17.5	-17.5 0.14 (4)				10.00
6-5	0 / 0	-17.5	-17.5 0.14 (4)				10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	PSF
DL	23.3	PSF
DL	3.0	PSF
BOT CH.	LL	PSF
DL	0.0	PSF
DL	7.0	PSF
TOTAL LOAD	33.3	PSF

SPACING = 24.0 IN./C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.35")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.27/1.00 (2-3:1), BC=0.14/1.00 (6-7:4),
WB=0.06/1.00 (1-6:1), SSI=0.12/1.00 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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	618 354	1667 822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.50 (3) (INPUT = 0.90)
JSI METAL= 0.15 (3) (INPUT = 1.00)



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



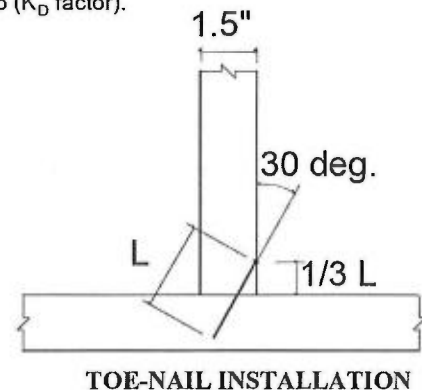
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B37579H1

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

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 O86-09, section 10.9.4.1.
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 O86-09, section 10.9.4
10. This design is not valid after April 30, 2019.



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



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

PEO
Certificate No. 10889485



April 26, 2017

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B37579H2

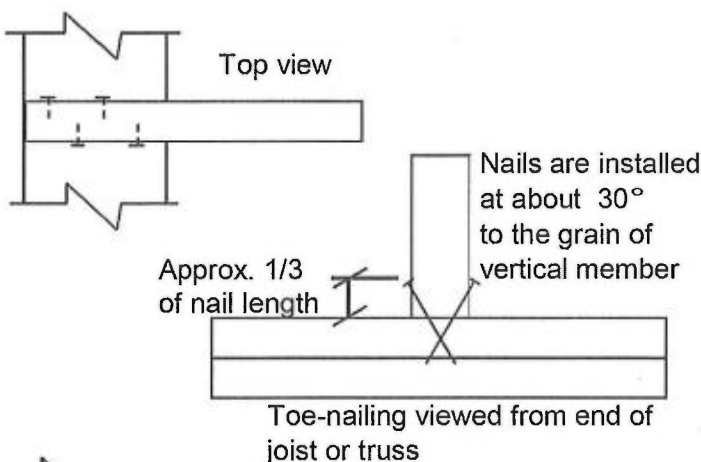
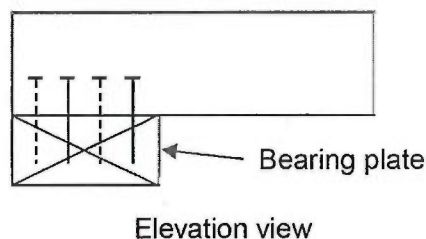
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52

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

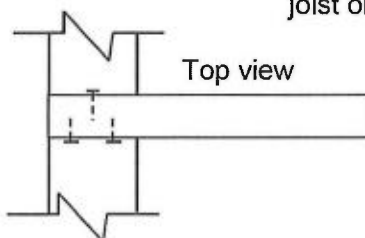
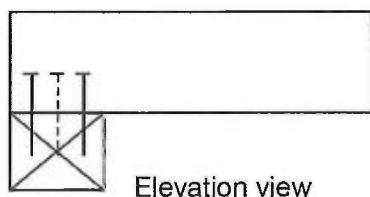
NOTES:

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 O86-09, section 10.9.5.2.
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 O86-09, section 10.9.5
9. This design is not valid after April 30, 2019

Toe-nailing on 2x6 Bearing Plate



Toe-nailing on 2x4 Bearing Plate



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Bradford, Ontario L3Z 3G7

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April 26, 2017

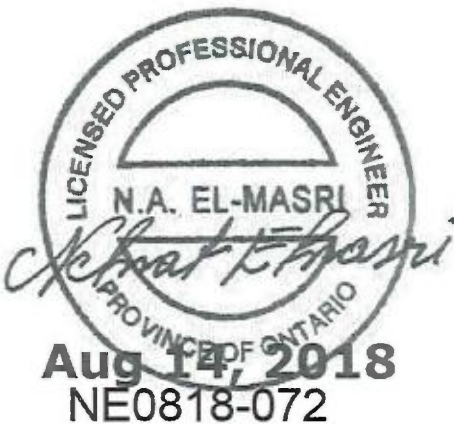
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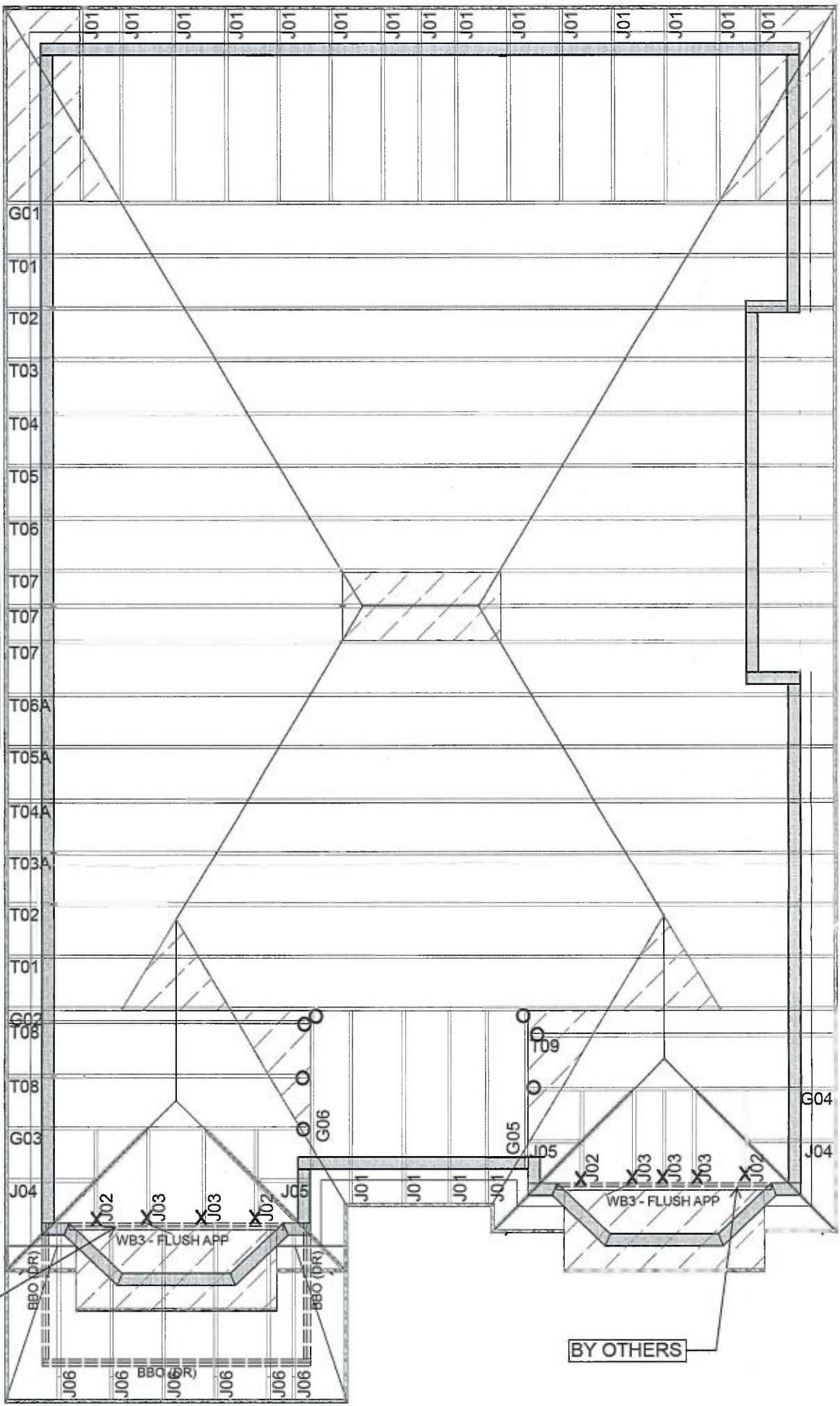
Layout based on plans provided by
VA3 DESIGN
Dated May 30/18

THIS CERTIFICATION IS FOR THE ENGINEERING REVIEW OF STRUCTURAL COMPONENTS SHOWN ON THIS DRAWING AND IS LIMITED TO THE COMPONENTS SUPPLIED BY KOTT LUMBER FOR THE LOADS AND CONDITIONS SHOWN ON THE CALCULATION PAGE OF EACH COMPONENT. THE PLACEMENT OF THESE COMPONENTS ON THIS LAYOUT IS SHOWN FOR REFERENCE ONLY. ROOF TRUSSES MUST BE INSTALLED ACCORDING TO MANUFACTURER'S GUIDELINES AT 24" C/C UNLESS NOTED OTHERWISE. CONVENTIONAL FRAMING SHOWN ON THE LAYOUT MUST BE DESIGNED AND APPROVED BY THE PROJECT ENGINEER. TEMPORARY AND PERMANENT BRACINGS OF THE ROOF AND BUILDING ARE THE RESPONSIBILITY OF THE PROJECT ENGINEER AND TO CONFORM TO BCSI GUIDELINES.

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.



BY OTHERS



BY OTHERS

ROOF TRUSS LAYOUT

CONVENTIONAL FRAMING BY OTHERS

HANGER LEGEND

X - LUS24
- HGUS26
O - LJS26DS
% - HGUS26-2

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 23.3 psf
DL = 3.0 psf
BOT CH. LL = 0.0 psf
DL = 7.0 psf
TOTAL LOAD = 33.3 psf
SPACING @ 24" CENTERS.
THIS TRUSS SYSTEM IS DESIGN FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010
THIS DESIGN COMPLIES WITH PART 9 OF OBC 2012, BCBC 2012, ABC 2012, CSA 086-09, TPIC 2011
ALLOWABLE DEFLECTION OF EACH COMPONENT = L/360

Model:	MILLWOOD 3 EL 2
Customer:	GREENPARK
Project:	MINNISALE HOMES
Location:	BRAMPTON
Drawn By:	DM
Date:	6/25/2018

SIZE AND LOCATION OF CONVENTIONAL FRAMING IS APPROXIMATE. ALL AREAS MAY NOT BE SHOWN. REFER TO ARCHITECTURAL PLANS FOR DETAILS.

ALL CONVENTIONAL FRAMING TO CONFORM WITH PART 9 OF THE O.B.C RAFTER THAT CROSS MEET OVER TRUSSES TO BE 2X4 SPF @ 24" O/C WITH 2X4 VERT POST TO THE TRUSS BELOW EA CROSS PT. VERT POS. THAN 6' TO HAVE A LATERAL BRACING SO THAT THE DISTANCE BETEN PT & VERT ROWS OF BRACING DOES NOT EXCEED 6'

CITY OF BRAMPTON
BUILDING DIVISION
REVIEWED
JAN 03, 2019
MARK DERKSEN

For conventional framing roof/ceilings
framing shall conform to OBC 9.23
All work shall conform to the Ontario
Building Code O. Reg. 332/12 as amended