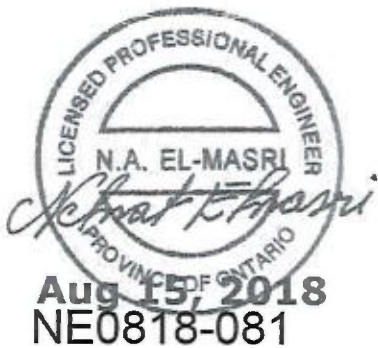




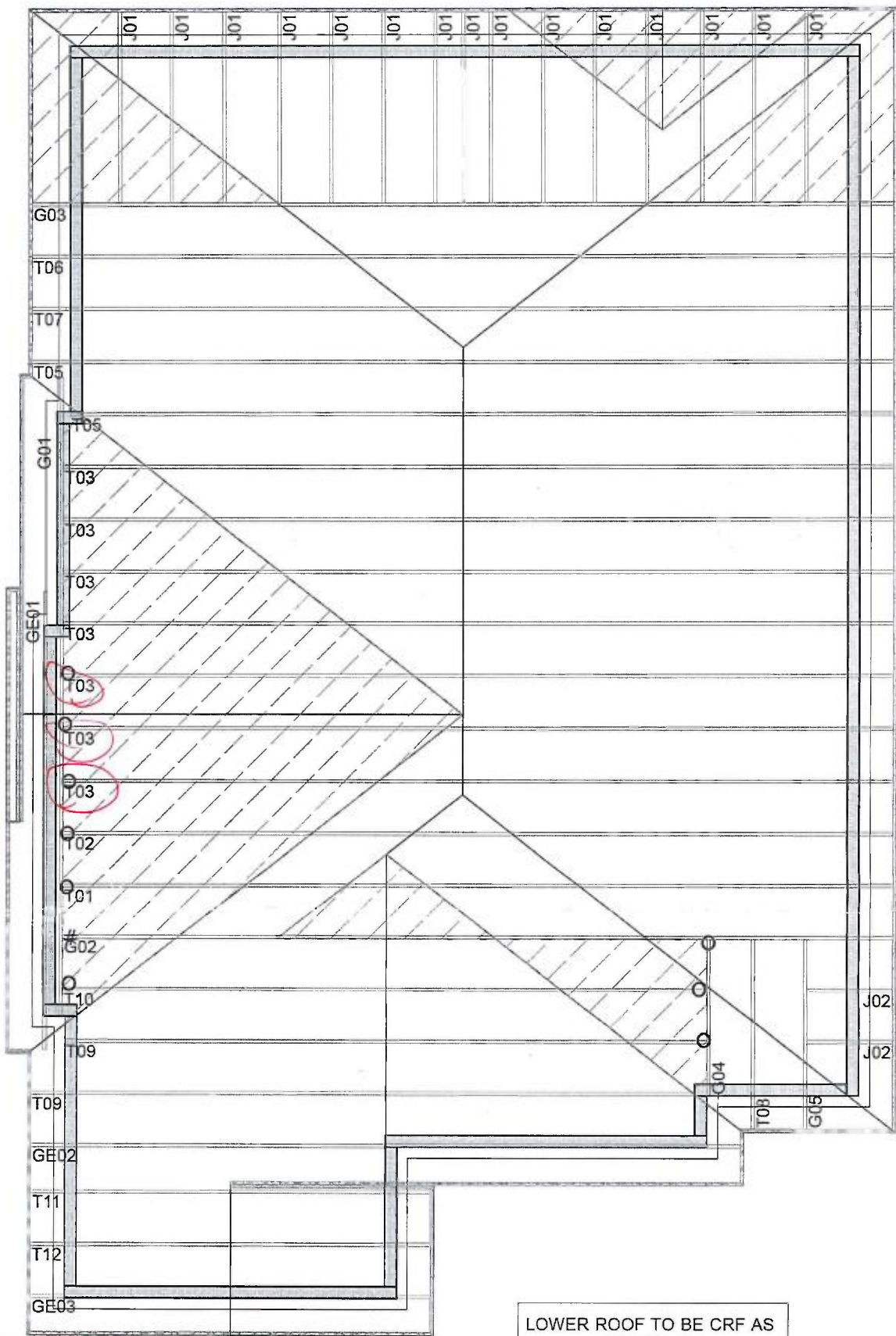
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PORTICO FLAT ROOF
BY OTHERS

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.



Layout based on plans provided by
REGION DESIGN INC.
Dated MAY 2018



CITY OF BRAMPTON
BUILDING DIVISION
REVIEWED
JAN 05 2019
BY
MARY FRENETTE

All work shall conform to the Ontario
Building Code O. Reg. 332/12 as amended
For conventional framing roof / ceilings
framing shall conform to OBC.9.23
18-411412-000-00RR

ROOF TRUSS LAYOUT

205 33

CONVENTIONAL
FRAMING BY OTHERS

HANGER LEGEND

X - LUS24 O - LJS26DS
- HGUS26 % - 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 12 EL 2
Customer:	GREENPARK
Project:	MINNISALE
Location:	BRAMPTON
Drawn By:	DM
Date:	6/28/2018

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'

18-411412-000-00RR
ROOF TRUSSES

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

NE0818-081
GREENPARK - MINNISALE HOMES -
MILLWOOD 12 ELE 2

LOT 33

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.



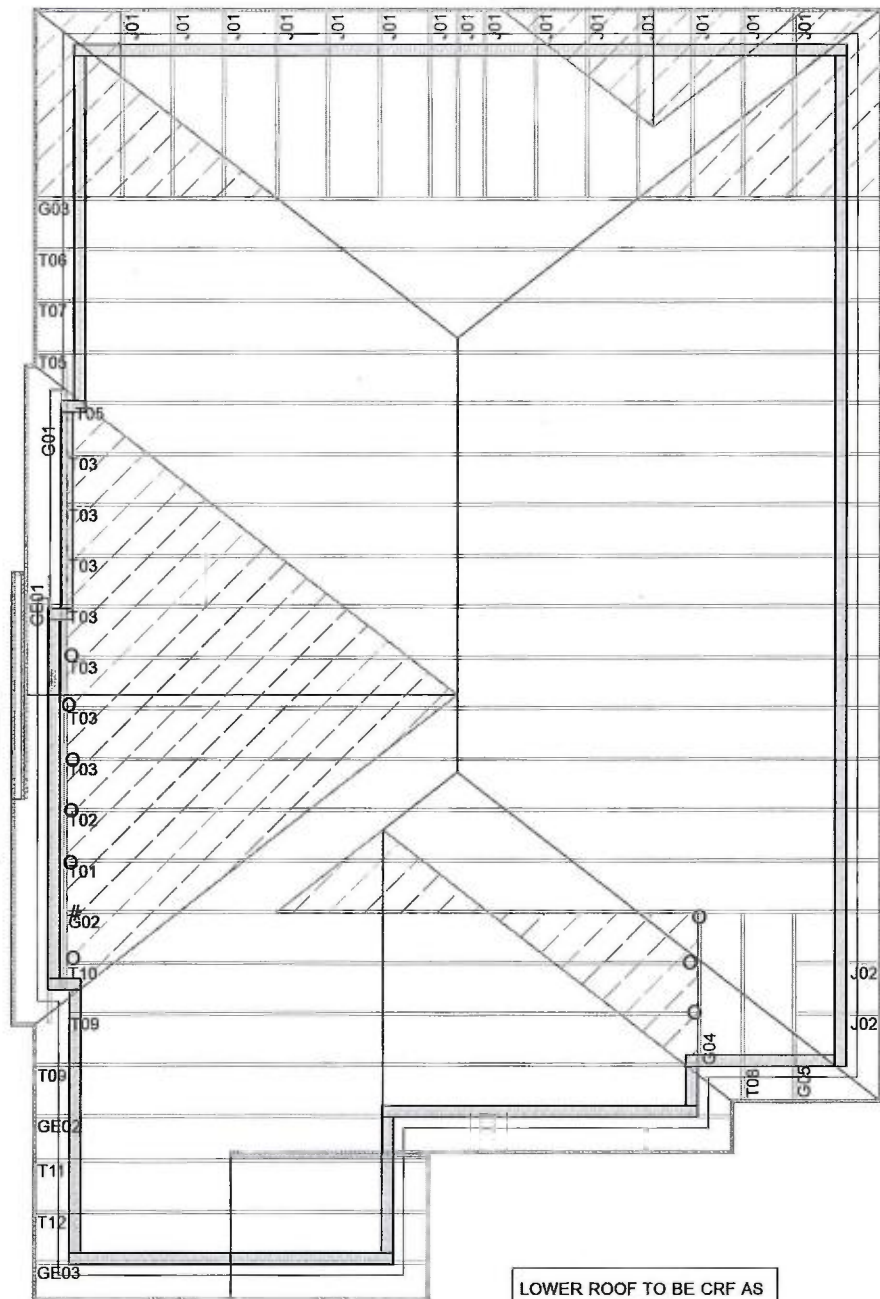
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PORTICO FLAT ROOF
BY OTHERS

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.



Layout based on plans provided by
REGION DESIGN INC.
Dated MAY 2018



LOWER ROOF TO BE CRF AS
PER PLANS

ROOF TRUSS LAYOUT



CONVENTIONAL
FRAMING BY OTHERS

HANGER LEGEND

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

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

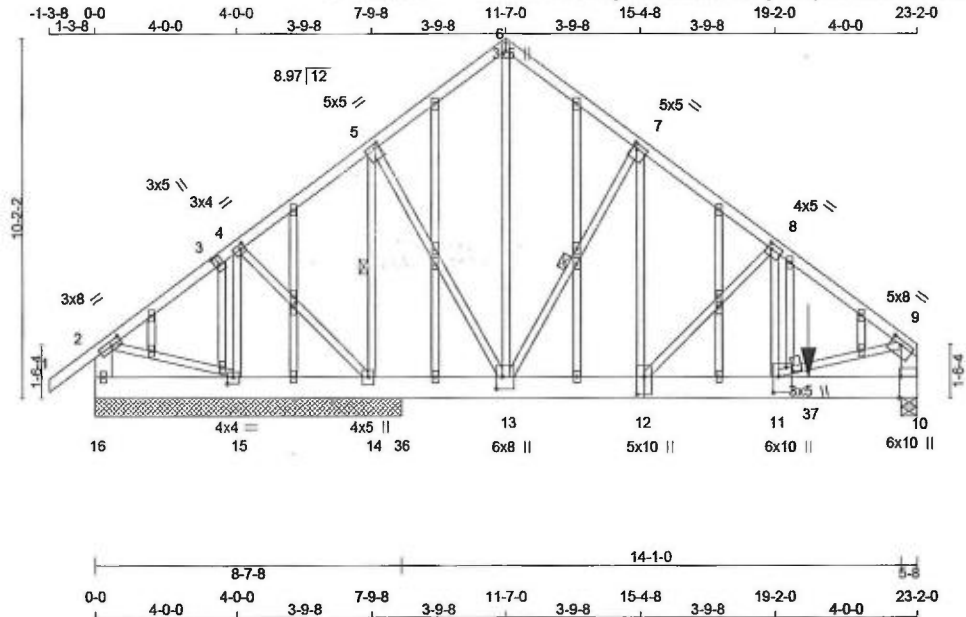
SPACING @ 24" CENTERS.
THIS TRUSS SYSTEM IS DESIGN FOR RESIDENTIAL
OR SMALL BUILDING REQUIREMENTS OF
PART 9, NBCC 2010

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

ALLOWABLE DEFLECTION OF EACH COMPONENT = $L/360$

Model:	MILLWOOD 12 EL 2
Customer:	GREENPARK
Project:	MINNISALE
Location:	BRAMPTON
Drawn By:	DM
Date:	6/28/2018

*see
attached*



TOTAL WEIGHT = 2 X 170 = 341 lb

LUMBER	CHORDS	SIZE	DRY	LUMBER	DESCR.
N. L. G. A. RULES					
1 - 3	2x4	DRY	No.2	SPF	
3 - 6	2x4	DRY	No.2	SPF	
6 - 9	2x4	DRY	No.2	SPF	
16 - 2	2x6	DRY	No.2	SPF	
10 - 9	2x6	DRY	No.2	SPF	
16 - 12	2x8	DRY	No.2	SPF	
12 - 10	2x8	DRY	No.2	SPF	

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

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

GABLE STUDS SPACED AT 2-0-0 OC.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
1-3	12	TOP
3-6	12	TOP
6-9	12	TOP
16-2	12	TOP
10-9	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
16-12	8	SIDE(335.0)
12-10	8	SIDE(335.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	DOWN	HORZ	DOWN	HORZ	UP	IN-SX	BRG	IN-SX
16	460	0	0	460	0	0	8-7-8	8-7-8	
14	6289	0	0	6289	0	0	8-7-8	8-7-8	
15	-129	0	0	0	0	-129	8-7-8	8-7-8	
10	7319	0	0	7319	0	0	5-8	5-8	

PROVIDE ANCHORAGE AT BEARING JOINT 15 FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
16	318	250 / 0	0 / 0	0 / 0	0 / 0	0 / 0	68 / 0	0 / 0
14	4414	3086 / 0	0 / 0	0 / 0	0 / 0	0 / 0	1329 / 0	0 / 0
15	-88	0 / -77	0 / 0	0 / 0	0 / 0	0 / 0	0 / -11	0 / 0
10	5136	3597 / 0	0 / 0	0 / 0	0 / 0	0 / 0	1540 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16, 14, 15, 10
BEARING SIZE FACTOR = 1.15 AT JNT(S) 10 (BASED ON SUPPORT DEPTH = 1-8)

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.53 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 7-13. DBS = 8-0-0. CBF = 188 LBS.
1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-14. DBS = 6-0-0. CBF = 182 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1) (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1) (LBS)
FR-TO				FR-TO			
1-2	0 / 32	-77.4	-77.4 0.06 (1)	10.00	13-6	0 / 2557	0.32 (1)
2-3	-147 / 0	-77.4	-77.4 0.11 (1)	6.25	13-7	-3765 / 0	0.78 (1)
3-4	-147 / 0	-77.4	-77.4 0.11 (1)	6.25	12-7	0 / 4323	0.54 (1)
4-5	-130 / 0	-77.4	-77.4 0.11 (1)	6.25	12-8	-2716 / 0	0.68 (1)
5-6	-2354 / 0	-77.4	-77.4 0.10 (1)	5.76	11-8	0 / 3072	0.38 (1)
6-7	-2355 / 0	-77.4	-77.4 0.10 (1)	5.76	5-13	0 / 3675	0.45 (1)
7-8	-4605 / 0	-77.4	-77.4 0.16 (1)	4.36	14-5	-4846 / 0	0.79 (1)
8-9	-6932 / 0	-77.4	-77.4 0.32 (1)	3.53	4-14	-58 / 0	0.01 (1)
16-2	-361 / 0	0.0	0.0 0.01 (1)	7.81	15-4	-284 / 0	0.04 (1)
10-9	-5739 / 0	0.0	0.0 0.21 (1)	6.15	2-15	0 / 140	0.02 (1)
					11-9	0 / 5741	0.71 (1)
16-15	0 / 0	-17.5	-17.5 0.06 (1)	10.00			
15-14	0 / 136	-17.5	-17.5 0.30 (1)	10.00			
14-36	0 / 96	-17.5	-17.5 0.30 (1)	10.00			
36-13	0 / 96	-687.5	-687.5 0.30 (1)	10.00			
13-12	0 / 3695	-687.5	-687.5 0.40 (1)	10.00			
12-11	0 / 5557	-687.5	-687.5 0.53 (1)	10.00			
11-37	0 / 0	-687.5	-687.5 0.45 (1)	10.00			
37-10	0 / 0	-687.5	-687.5 0.45 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
37	20-1-4	-1865	-1865	---	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: CStdGirder
START DISTANCE = 8-7-0
START SPAN CARRIED = 30-8-8
END DISTANCE = 23-2-0
END SPAN CARRIED = 30-8-8
END WALL WIDTH = 5-8
APPLIED TO FRONT 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, NBC 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 (0.51")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (0.51")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.32/1.00 (8-9:1), BC=0.53/1.00 (11-12:1), WB=0.79/1.00 (5-14:1), SS=0.89/1.00 (10-11:1)

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

AUTOSOLVE HEELS OFF

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

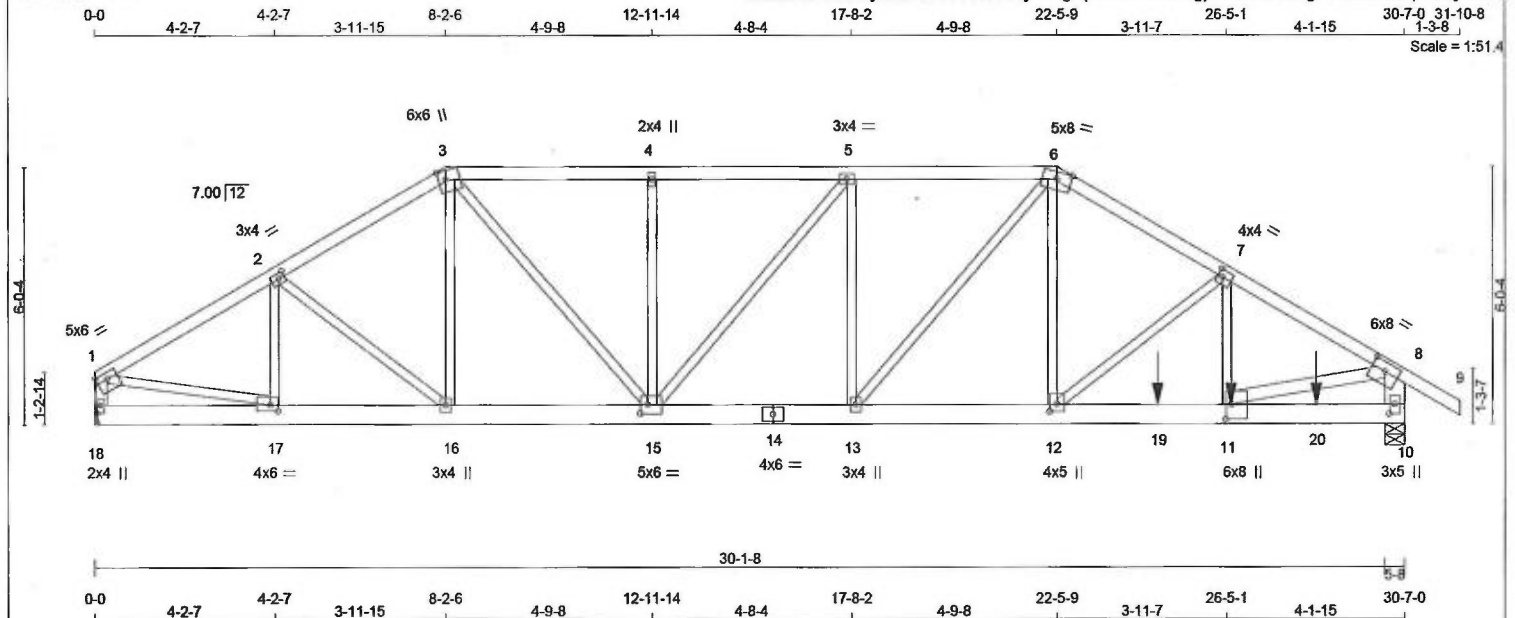
CONTINUED ON PAGE 2



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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - MINNISALE HOMES - MILLWOOD 12 ELE 2	DRWG NO.																																																																																																																																																																							
NE0818-081	G01	1	2	TRUSS DESC.		PAGE 4 OF 30																																																																																																																																																																							
Version 8.210 8 Mar 12 2018 MiTek Industries, Inc. Wed Aug 15 16:46:20 2018 Page 2 ID:lbxBcPTYUOyd9wXNUTvYurz28ye-oUpRQOhrWzNDde5di101t1?CNGCJj3TQMj5gzxynZ3X																																																																																																																																																																													
PLATES (table is in inches) <table><thead><tr><th>JT</th><th>TYPE</th><th>PLATES</th><th>W</th><th>LEN</th><th>Y</th><th>X</th></tr></thead><tbody><tr><td>2</td><td>TMVW-I</td><td>MT20</td><td>3.0</td><td>8.0</td><td>1.50</td><td>3.50</td></tr><tr><td>3</td><td>TSW+I</td><td>MT20</td><td>3.0</td><td>5.0</td><td>3.00</td><td>1.50</td></tr><tr><td>4</td><td>TMWW-I</td><td>MT20</td><td>3.0</td><td>4.0</td><td>1.50</td><td>1.50</td></tr><tr><td>5</td><td>TMWW-I</td><td>MT20</td><td>5.0</td><td>5.0</td><td>1.50</td><td>1.50</td></tr><tr><td>6</td><td>TTW+p</td><td>MT20</td><td>3.0</td><td>5.0</td><td></td><td></td></tr><tr><td>7</td><td>TMWW-I</td><td>MT20</td><td>5.0</td><td>5.0</td><td>1.50</td><td>1.25</td></tr><tr><td>8</td><td>TMWW-I</td><td>MT20</td><td>4.0</td><td>5.0</td><td>1.75</td><td>1.25</td></tr><tr><td>9</td><td>TMVW-I</td><td>MT20</td><td>5.0</td><td>8.0</td><td>1.50</td><td>3.50</td></tr><tr><td>10</td><td>BMV1+I</td><td>MT20</td><td>6.0</td><td>10.0</td><td>Edge</td><td>0.50</td></tr><tr><td>11</td><td>BMWW+I</td><td>MT20</td><td>6.0</td><td>10.0</td><td>5.50</td><td>1.75</td></tr><tr><td>12</td><td>BSWW+I</td><td>MT20</td><td>5.0</td><td>10.0</td><td>6.00</td><td>2.50</td></tr><tr><td>13</td><td>BMWWW+I</td><td>MT20</td><td>6.0</td><td>8.0</td><td>4.00</td><td>2.00</td></tr><tr><td>14</td><td>BMWW1+I</td><td>MT20</td><td>4.0</td><td>5.0</td><td></td><td></td></tr><tr><td>15</td><td>BMWW1-I</td><td>MT20</td><td>4.0</td><td>4.0</td><td>2.25</td><td>2.00</td></tr><tr><td>16</td><td>BMV1+p</td><td>MT20</td><td>2.0</td><td>4.0</td><td></td><td></td></tr><tr><td>17, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 28, 29, 30, 31, 33, 34, 35</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>17</td><td>NP+w</td><td>MT20</td><td>2.0</td><td>4.0</td><td></td><td></td></tr><tr><td>20</td><td>NP+w</td><td>MT20</td><td>2.0</td><td>4.0</td><td>1.50</td><td>1.00</td></tr><tr><td>31</td><td>NP+w</td><td>MT20</td><td>2.0</td><td>4.0</td><td>1.50</td><td>1.00</td></tr><tr><td>32</td><td>NP+I</td><td>MT20</td><td>3.0</td><td>5.0</td><td>2.00</td><td>2.00</td></tr></tbody></table> 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) 1865.2 lbs FACTORED DOWN AT 20-1-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.				JT	TYPE	PLATES	W	LEN	Y	X	2	TMVW-I	MT20	3.0	8.0	1.50	3.50	3	TSW+I	MT20	3.0	5.0	3.00	1.50	4	TMWW-I	MT20	3.0	4.0	1.50	1.50	5	TMWW-I	MT20	5.0	5.0	1.50	1.50	6	TTW+p	MT20	3.0	5.0			7	TMWW-I	MT20	5.0	5.0	1.50	1.25	8	TMWW-I	MT20	4.0	5.0	1.75	1.25	9	TMVW-I	MT20	5.0	8.0	1.50	3.50	10	BMV1+I	MT20	6.0	10.0	Edge	0.50	11	BMWW+I	MT20	6.0	10.0	5.50	1.75	12	BSWW+I	MT20	5.0	10.0	6.00	2.50	13	BMWWW+I	MT20	6.0	8.0	4.00	2.00	14	BMWW1+I	MT20	4.0	5.0			15	BMWW1-I	MT20	4.0	4.0	2.25	2.00	16	BMV1+p	MT20	2.0	4.0			17, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 28, 29, 30, 31, 33, 34, 35							17	NP+w	MT20	2.0	4.0			20	NP+w	MT20	2.0	4.0	1.50	1.00	31	NP+w	MT20	2.0	4.0	1.50	1.00	32	NP+I	MT20	3.0	5.0	2.00	2.00	NAIL VALUES <table><thead><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></thead><tbody><tr><td>MAX</td><td>MIN</td><td>MAX</td><td>MIN</td></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></tbody></table> PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.89 (13) (INPUT = 0.90) JSI METAL= 0.66 (9) (INPUT = 1.00)			PLATE	GRIP(DRY)	SHEAR	SECTION		(PSI)	(PLI)	(PLI)	MAX	MIN	MAX	MIN	MT20	618	354	1667		822	2284	1656
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LUMBER	CHORDS	SIZE	DRY	LUMBER	DESCR.
N. L. G. A. RULES					
1 - 3	2x4	DRY	No.2	SPF	
3 - 6	2x4	DRY	No.2	SPF	
6 - 9	2x4	DRY	No.2	SPF	
18 - 1	2x4	DRY	No.2	SPF	
10 - 8	2x6	DRY	No.2	SPF	
18 - 14	2x6	DRY	No.2	SPF	
14 - 10	2x6	DRY	2100F 1.8E	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
EXCEPT					
11 - 8	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	5.0	6.0	1.75	Edge
2	TMWW-t	MT20	3.0	4.0	1.50	1.75
3	TTWW+m	MT20	6.0	6.0	2.50	2.00
4	TMW+w	MT20	2.0	4.0		
5	TMWW-t	MT20	3.0	4.0		
6	TTWW-m	MT20	5.0	8.0	2.00	4.00
7	TMWW-t	MT20	4.0	4.0	2.00	1.25
8	TMVW-t	MT20	6.0	8.0	2.50	4.00
10	BMV1+p	MT20	3.0	5.0	2.75	1.50
11	BMWW+t	MT20	6.0	8.0	4.25	1.50
12	BMWW+t	MT20	4.0	5.0	2.00	2.00
13	BMWW+t	MT20	3.0	4.0		
14	BS-t	MT20	4.0	6.0		
15	BMWW-t	MT20	5.0	6.0	2.50	2.00
16	BMWW+t	MT20	3.0	4.0		
17	BMWW-t	MT20	4.0	6.0	1.75	2.25
18	BMV1+p	MT20	2.0	4.0	2.25	1.00

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

HANGERS NOTES

1)

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REORD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
18	1865	0	1865	0	0	MECHANICAL
10	3573	0	3573	0	5-8	5-8

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 18 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	MAX./MIN. COMPONENT REACTIONS						
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
18	1309	916 / 0	0 / 0	0 / 0	0 / 0	393 / 0	0 / 0
10	2505	1766 / 0	0 / 0	0 / 0	0 / 0	739 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.78 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			MAX. UNBRAC	MEMB.	MAX. FACTORED		
		VERT. LOAD (PLF)	LC1 CSI (LC)	MAX FORCE (LBS)			MAX CSI (LC)		
FR-TO		FROM	TO			FR-TO			
1-2	-2470 / 0	-77.4	-77.4	0.33 (1)	4.05	17-2	-402 / 0	0.09 (1)	
2-3	-2517 / 0	-77.4	-77.4	0.33 (1)	4.01	2-16	0 / 10	0.00 (4)	
3-4	-2901 / 0	-77.4	-77.4	0.40 (1)	3.70	16-3	0 / 111	0.03 (4)	
4-5	-2901 / 0	-77.4	-77.4	0.42 (1)	3.67	3-15	0 / 1147	0.28 (1)	
5-6	-3226 / 0	-77.4	-77.4	0.46 (1)	3.47	15-4	-391 / 0	0.21 (1)	
6-7	-3775 / 0	-77.4	-77.4	0.41 (1)	3.28	15-5	-510 / 0	0.52 (1)	
7-8	-4764 / 0	-77.4	-77.4	0.58 (1)	2.78	13-5	-3 / 74	0.03 (4)	
8-9	0 / 27	-77.4	-77.4	0.11 (1)	10.00	13-6	-76 / 0	0.08 (1)	
18-1	-1812 / 0	0.0	0.0	0.20 (1)	6.16	12-6	0 / 1677	0.42 (1)	
10-8	-3526 / 0	0.0	0.0	0.25 (1)	5.63	12-7	-1138 / 0	0.52 (1)	
18-17	0 / 0	-17.5	-17.5	0.06 (1)	10.00	11-7	0 / 857	0.21 (1)	
17-16	0 / 2148	-17.5	-17.5	0.33 (1)	10.00	11-8	0 / 2191	0.54 (1)	
16-15	0 / 2158	-17.5	-17.5	0.32 (1)	10.00		0 / 4219	0.75 (1)	
15-14	0 / 3226	-17.5	-17.5	0.50 (1)	10.00				
14-13	0 / 3226	-17.5	-17.5	0.50 (1)	10.00				
13-12	0 / 3275	-17.5	-17.5	0.36 (1)	10.00				
12-19	0 / 4126	-17.5	-17.5	0.78 (1)	10.00				
19-11	0 / 4126	-17.5	-17.5	0.78 (1)	10.00				
11-20	0 / 0	-17.5	-17.5	0.19 (1)	10.00				
20-10	0 / 0	-17.5	-17.5	0.19 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE
11	26-6-4	-285	-285	—	FRONT	VERT	TOTAL
19	24-9-12	-1904	-1904	—	FRONT	VERT	TOTAL
20	28-6-4	-242	-242	—	FRONT	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

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

*** 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, CBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

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

ALLOWABLE DEFL.(LL)= L/360 (1.02")
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
ALLOWABLE DEFL.(TL)= L/360 (1.02")
CALCULATED VERT. DEFL.(TL) = L/999 (0.26")

CSI: TC=0.58/1.00 (7-8-1), BC=0.78/1.00 (11-12-1),
WB=0.75/1.00 (8-11-1), SSI=0.78/1.00 (11-12-1)

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

AUTOSOLVE LEFT 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	MAX MIN	MAX MIN
MT20	618 354	1667 822	2284 1656

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.
NE0818-081	G02	1	1	GREENPARK - MINNISALE HOMES MILLWOOD 12 ELE 2	PAGE 6 OF 30

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Wed Aug 15 16:46:21 2018 Page 2
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HANGERS NOTES

- 1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 1903.7 lbs FACTORED DOWN AT 24-9-12, AND 285.0 lbs FACTORED DOWN AT 26-6-4, AND 242.2 lbs FACTORED DOWN AT 28-6-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

PLATE PLACEMENT TOL. = 0.250 inches

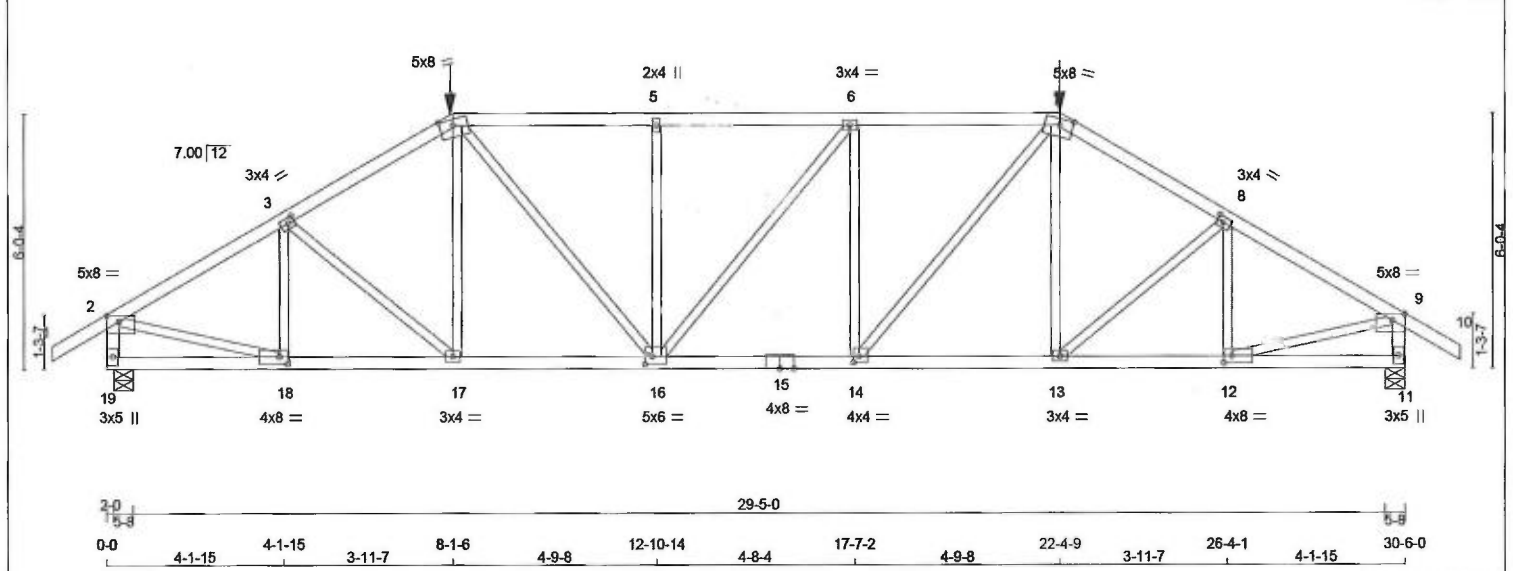
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (17) (INPUT = 0.90)
JSI METAL= 0.92 (8) (INPUT = 1.00)

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



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ID:lbxBcPTYUOyd9wXNUTvYurz28ye-kbBr4jh2bexlyF0qS2VyS4QM4r8B_Sjq1am2pynZ3V
Scale = 1:51.8



LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER DESCR. SPF
1 - 4 2x4 DRY No.2 SPF
4 - 7 2x4 DRY No.2 SPF
7 - 10 2x4 DRY No.2 SPF
19 - 2 2x4 DRY No.2 SPF
11 - 9 2x4 DRY No.2 SPF
19 - 15 2x4 DRY No.2 SPF
15 - 11 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
19	2748	0	2748	0	0	5-8	5-8
11	2748	0	2748	0	0	5-8	5-8

UNFACTORED REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
19	1928	1352 / 0	0 / 0	0 / 0	0 / 0	577 / 0	0 / 0
11	1928	1351 / 0	0 / 0	0 / 0	0 / 0	577 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 19, 11

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.69 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 UNBRACED LENGTH	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO			
1-2	0 / 27	-77.4 -77.4 0.11 (1)	10.00	18-3	-568 / 0	0.13 (1)	
2-3	-3454 / 0	-77.4 -77.4 0.41 (1)	3.42	3-17	0 / 168	0.04 (1)	
3-4	-3639 / 0	-77.4 -77.4 0.42 (1)	3.31	17-4	0 / 160	0.06 (4)	
4-5	-3878 / 0	-145.9 -145.9 0.79 (1)	2.72	4-16	0 / 1170	0.29 (1)	
5-6	-3878 / 0	-145.9 -145.9 0.79 (1)	2.70	16-5	-744 / 0	0.43 (1)	
6-7	-3881 / 0	-145.9 -145.9 0.80 (1)	2.69	16-6	-5 / 0	0.01 (1)	
7-8	-3640 / 0	-77.4 -77.4 0.42 (1)	3.31	14-6	-745 / 0	0.43 (1)	
8-9	-3457 / 0	-77.4 -77.4 0.41 (1)	3.42	14-7	0 / 1174	0.29 (1)	
9-10	0 / 27	-77.4 -77.4 0.11 (1)	10.00	13-7	0 / 160	0.06 (4)	
19-2	-2684 / 0	0.0 0.0 0.30 (1)	5.19	13-8	0 / 166	0.04 (1)	
11-9	-2684 / 0	0.0 0.0 0.30 (1)	5.19	12-8	-566 / 0	0.13 (1)	
19-18	0 / 0	-33.0 -33.0 0.13 (4)	10.00	2-18	0 / 3078	0.76 (1)	
18-17	0 / 2997	-33.0 -33.0 0.61 (1)	10.00	12-9	0 / 3079	0.76 (1)	
17-16	0 / 3127	-33.0 -33.0 0.64 (1)	10.00				
16-15	0 / 3881	-33.0 -33.0 0.76 (1)	10.00				
15-14	0 / 3881	-33.0 -33.0 0.76 (1)	10.00				
14-13	0 / 3127	-33.0 -33.0 0.63 (1)	10.00				
13-12	0 / 2999	-33.0 -33.0 0.61 (1)	10.00				
12-11	0 / 0	-33.0 -33.0 0.13 (4)	10.00				

FACTORED CONCENTRATED LOADS (LBS)						
JT	LOC.	LC1	MAX- MAX+	FACE	DIR.	TYPE
4	8-1-6	-471	-471	BACK	VERT	TOTAL
7	22-4-9	-471	-471	BACK	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
LEFT SETBACK = 8-1-6
RIGHT SETBACK = 8-1-7
END SETBACK = 6-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO BACK 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 (1.02")
CALCULATED VERT. DEFL.(LL) = L/999 (0.18")
ALLOWABLE DEFL.(TL)= L/360 (1.02")
CALCULATED VERT. DEFL.(TL) = L/999 (0.32")
CSI: TC=0.80/1.00 (6-7:1), BC=0.76/1.00 (14-16:1), WB=0.76/1.00 (9-12:1), SSI=0.36/1.00 (6-7:1)
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
AUTOSOLVE RIGHT HEEL ONLY
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

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.

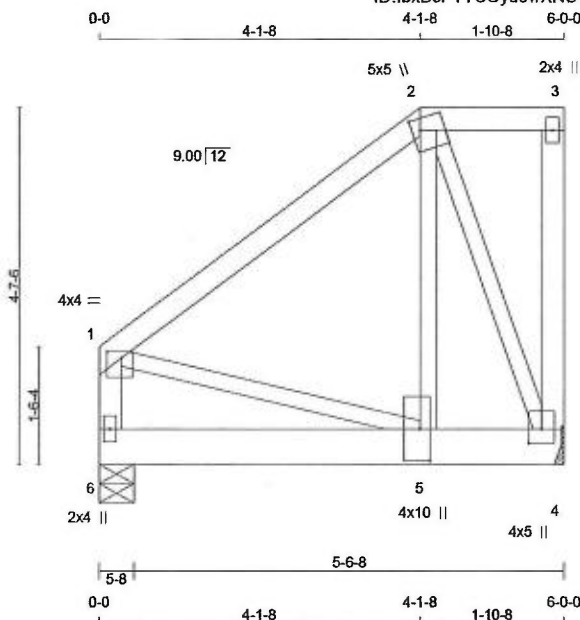
PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP= 0.69 (7) (INPUT = 0.90)
JSI METAL= 0.77 (15) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON
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THE DESIGN OF THIS COMPONENT.



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - MINNISALE HOMES	DRWG NO.
NE0818-081	G04	1	1	TRUSS DESC.	MILLWOOD 12 ELE 2	PAGE 9 OF 30

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Wed Aug 15 16:46:22 2018 Page 1
ID:lbxBcPTYUOyd9wXNUTvYurz28ye-ktxBr4jh2bextyF0qS2VyS4Yd4slB0Tjq1am2pynZ3V



Scale = 1:28.5

TOTAL WEIGHT = 34 lb [M]

LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
1 - 2	2x4	DRY	No.2	SPF
2 - 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	1.00	2.25
2	TTWW+m	MT20	5.0	5.0	1.75	1.25
3	TMV+p	MT20	2.0	4.0		
4	BMVW1+p	MT20	4.0	5.0	2.25	2.00
5	BMVW+t	MT20	4.0	10.0	5.00	1.50
6	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	IN-SX	IN-SX
4	1903	0	1903	0	0	MECHANICAL
6	1903	0	1903	0	0	5-8

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	1336	934 / 0	0 / 0	0 / 0	0 / 0	401 / 0	0 / 0
6	1336	934 / 0	0 / 0	0 / 0	0 / 0	401 / 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 = 6.12 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS			WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM	TO	FR-TO	
1-2	-894 / 0	-77.4	-77.4	0.27 (1)	6.12
2-3	0 / 0	-77.4	-77.4	0.05 (1)	10.00
4-3	-73 / 0	0.0	0.0	0.02 (1)	7.81
6-1	-885 / 0	0.0	0.0	0.10 (1)	7.81
6-5	0 / 0	-557.0	-557.0	0.68 (1)	10.00
5-4	0 / 764	-557.0	-557.0	0.60 (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

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

GIRDER TYPE: CStdGirder

START DISTANCE = 0-0
START SPAN CARRIED = 24-9-0
END DISTANCE = 6-0-0
END SPAN CARRIED = 24-9-0
END WALL WIDTH = 0-0
APPLIED TO BACK SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.20")
CALCULATED VERT. DEFL.(LL)= L/999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL)= L/730 (0.10")

CSI: TC=0.27/1.00 (1-2:1), BC=0.68/1.00 (5-6:1), WB=0.63/1.00 (2-4:1), SSI=0.89/1.00 (5-6:1)

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 (PSI)	SECTION (PLI)
MT20	618	354	1667
	822	2284	1656

CONTINUED ON PAGE 2



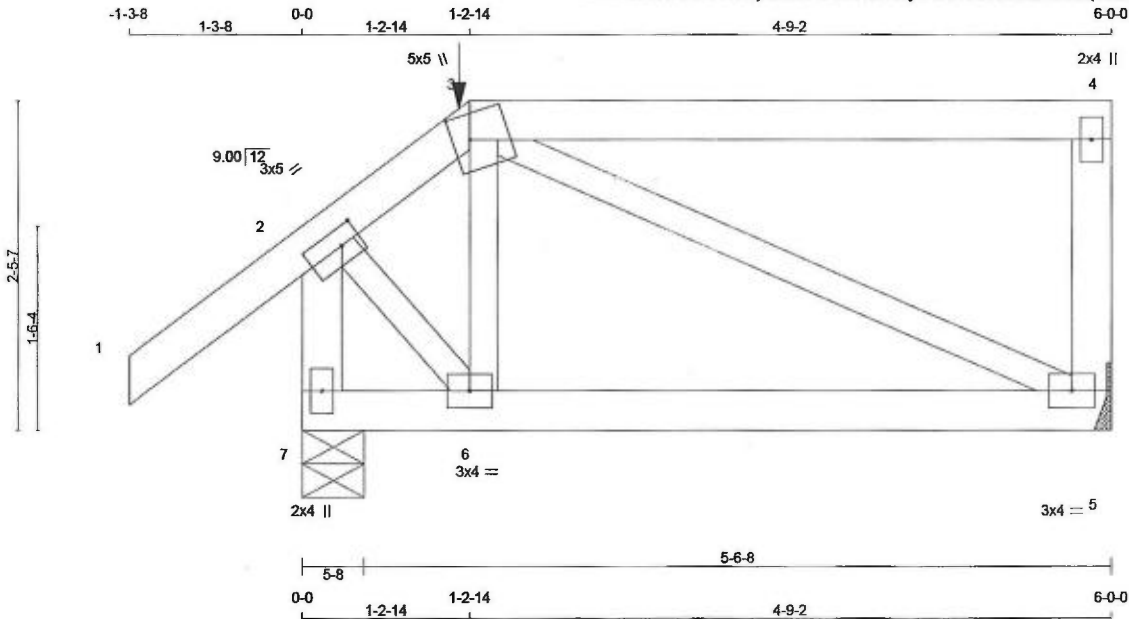
READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP= 0.89 (2) (INPUT = 0.90)
JSI METAL= 0.52 (2) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON
ENGINEERING NOTE PAGE ENP-1. THIS
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TOTAL WEIGHT = 26 lb [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
5 - 4	2x4	DRY	No.2		SPF
7 - 2	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-I	MT20	3.0	5.0	1.50	1.75
3	TTWW+m	MT20	5.0	5.0	2.25	1.50
4	TMV+p	MT20	2.0	4.0		
5	BMVW1-I	MT20	3.0	4.0		
6	BMVW-I	MT20	3.0	4.0		
7	BMV1+p	MT20	2.0	4.0		

HANGERS NOTES

- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 8.0 lbs FACTORED DOWN AT 1-2-14 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 GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
5	243	0	243	0
7	387	0	387	0

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	170	118 / 0	0 / 0	0 / 0	0 / 0	52 / 0	0 / 0
7	269	205 / 0	0 / 0	0 / 0	0 / 0	64 / 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 FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRAC LENGTH FR-TO	MAX. FACTORED CSI (LC)
FR-TO		FROM TO		FR-TO			
1-2	0 / 32	-77.4 -77.4	0.12 (1)	10.00	6-3	-25 / 43	0.02 (4)
2-3	-176 / 0	-77.4 -77.4	0.11 (1)	6.25	3-5	-121 / 0	0.05 (1)
3-4	0 / 0	-68.5 -68.5	0.29 (1)	10.00	2-6	0 / 149	0.04 (1)
5-4	-163 / 0	0.0 0.0	0.02 (1)	7.81			
7-2	-398 / 0	0.0 0.0	0.05 (1)	7.81			
7-6	0 / 0	-15.5 -15.5	0.08 (4)	10.00			
6-5	0 / 110	-15.5 -15.5	0.09 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
3	1-2-14	-8	-8	—	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
LEFT SETBACK = 1-2-14
RIGHT SETBACK = 0-0
END SETBACK = 2-0-0
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
- 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 (0.01")

CSI: TC=0.29/1.00 (3-4:1), BC=0.09/1.00 (5-6:4), WB=0.05/1.00 (3-5:1), SSI=0.14/1.00 (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.

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

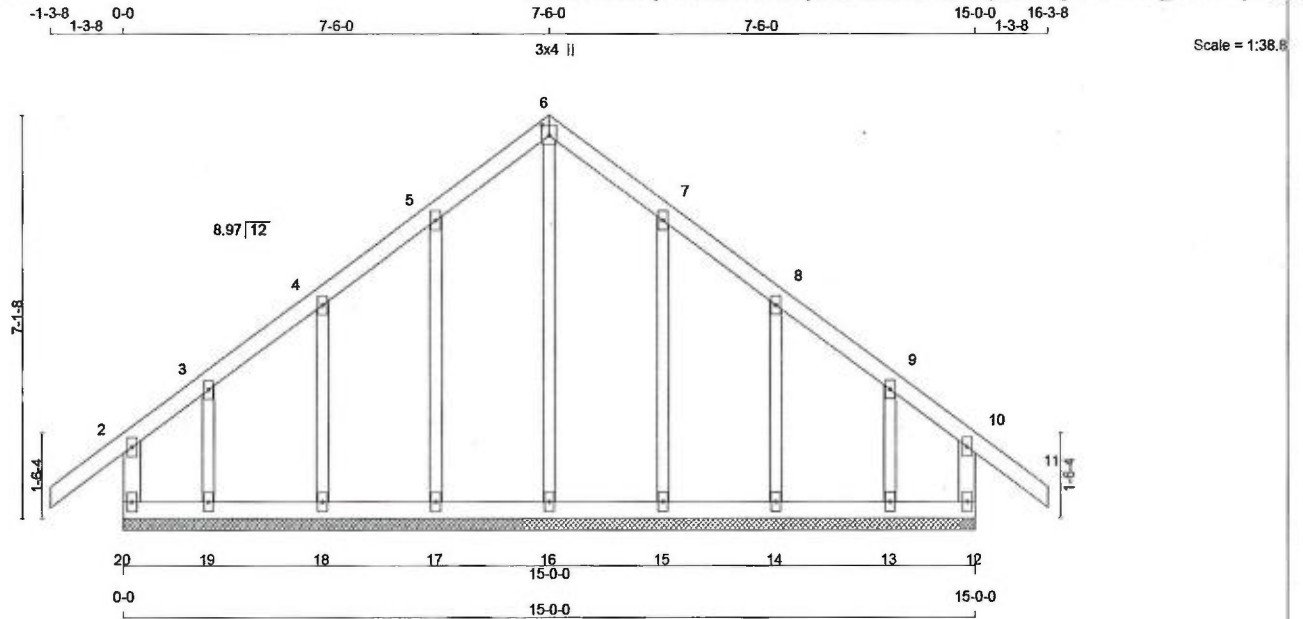
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.34 (2) (INPUT = 0.90)
JSI METAL= 0.08 (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
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THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 68 lb

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
20 - 2	2x4	DRY No.2	SPF
1 - 6	2x4	DRY No.2	SPF
6 - 11	2x4	DRY No.2	SPF
12 - 10	2x4	DRY No.2	SPF
20 - 12	2x4	DRY No.2	SPF
ALL WEBS	2x3	DRY No.2	SPF
ALL GABLE WEBS	2x3	DRY No.2	SPF
DRY: SEASONED LUMBER.			
GABLE STUDS SPACED AT 2'-0" OC.			

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO			FR-TO		
20-2	-177 / 0	0.0	0.0 0.03 (1)	7.81	16-6	-195 / 0	0.17 (1)
1-2	0 / 32	-77.4	-77.4 0.11 (1)	10.00	17-5	-157 / 0	0.08 (1)
2-3	0 / 2	-77.4	-77.4 0.07 (1)	10.00	18-4	-160 / 0	0.04 (1)
3-4	0 / 27	-77.4	-77.4 0.04 (1)	10.00	19-3	-96 / 0	0.02 (1)
4-5	0 / 27	-77.4	-77.4 0.04 (1)	10.00	15-7	-157 / 0	0.08 (1)
5-6	0 / 29	-77.4	-77.4 0.04 (1)	10.00	14-8	-160 / 0	0.04 (1)
6-7	0 / 29	-77.4	-77.4 0.04 (1)	10.00	13-9	-96 / 0	0.02 (1)
7-8	0 / 27	-77.4	-77.4 0.04 (1)	10.00			
8-9	0 / 27	-77.4	-77.4 0.04 (1)	10.00			
9-10	0 / 2	-77.4	-77.4 0.07 (1)	10.00			
10-11	0 / 32	-77.4	-77.4 0.11 (1)	10.00			
12-10	-177 / 0	0.0	0.0 0.03 (1)	7.81			
20-19	-14 / 0	-17.5	-17.5 0.01 (4)	6.25			
19-18	-18 / 0	-17.5	-17.5 0.01 (4)	6.25			
18-17	-22 / 0	-17.5	-17.5 0.01 (4)	6.25			
17-16	-24 / 0	-17.5	-17.5 0.01 (4)	6.25			
16-15	-24 / 0	-17.5	-17.5 0.01 (4)	6.25			
15-14	-22 / 0	-17.5	-17.5 0.01 (4)	6.25			
14-13	-18 / 0	-17.5	-17.5 0.01 (4)	6.25			
13-12	-14 / 0	-17.5	-17.5 0.01 (4)	6.25			

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

CSI: TC=0.11/1.00 (1-2:1), BC=0.01/1.00 (17-18:4), WB=0.17/1.00 (6-16:1), SSI=0.07/1.00 (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

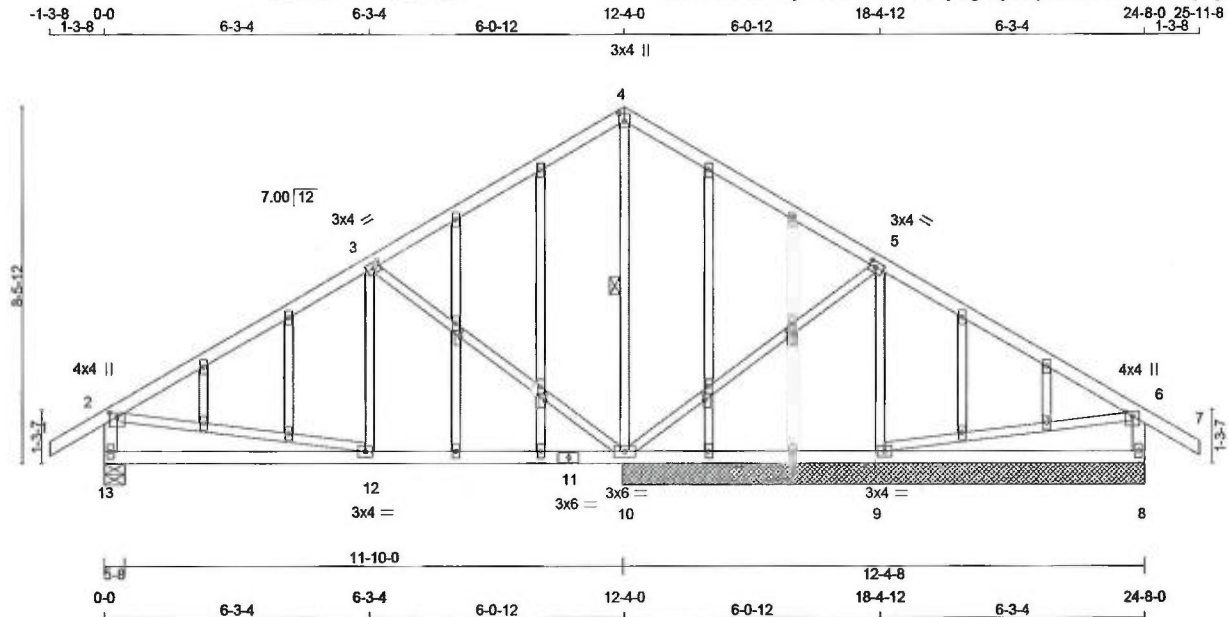
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (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 = 128 lb [M]

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF	
4 - 7	2x4	DRY	No.2	SPF	
13 - 2	2x4	DRY	No.2	SPF	
8 - 6	2x4	DRY	No.2	SPF	
13 - 11	2x4	DRY	No.2	SPF	
11 - 8	2x4	DRY	No.2	SPF	

ALL WEBS EXCEPT 2x3 DRY No.2 SPF

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

GABLE STUDS SPACED AT 2'-0" O.C.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW+p	MT20	4.0	4.0	1.25	2.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TTW+p	MT20	3.0	4.0	2.25	1.50
5	TMWW-t	MT20	3.0	4.0	1.50	1.75
6	TMVW+p	MT20	4.0	4.0	1.25	2.00
8	BMV1+p	MT20	2.0	4.0		
9	BMWW1-t	MT20	3.0	4.0		
10	BMWW1-t	MT20	3.0	6.0		
11	BS-t	MT20	3.0	6.0		
12	BMWW-t	MT20	3.0	4.0		
13	BMV1+p	MT20	2.0	4.0		
14, 17, 26, 29						
14	NP+w	MT20	2.0	4.0	2.00	0.25
14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33						
14	NP+w	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	IN-SX	IN-SX		
13	607	0	607	0	0	5-8	5-8		
10	1079	0	1079	0	0	12-4-8	12-4-8		
9	507	0	507	0	0	12-4-8	12-4-8		
8	358	0	358	0	0	12-4-8	12-4-8		

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. SNOW	MAX./MIN. LIVE	MAX./MIN. PERM.LIVE	WIND	DEAD	SOIL
13	423	312 / 0	0 / 0	0 / 0	111 / 0	0 / 0	0 / 0
10	757	530 / 0	0 / 0	0 / 0	227 / 0	0 / 0	0 / 0
9	358	239 / 0	0 / 0	0 / 0	119 / 0	0 / 0	0 / 0
8	247	195 / 0	0 / 0	0 / 0	52 / 0	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 13, 10, 9, 8

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.

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-10. DBS = 20'-0" . CBF = 61 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	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)	UNBRAC LENGTH	FR-TO		
1-2	0 / 27	-77.4	-77.4 0.10 (1)	10.00	12-3	0 / 122	0.04 (4)
2-3	-398 / 0	-77.4	-77.4 0.52 (1)	6.25	3-10	-615 / 0	0.72 (1)
3-4	0 / 109	-77.4	-77.4 0.51 (1)	10.00	10-4	-488 / 0	0.22 (1)
4-5	0 / 108	-77.4	-77.4 0.52 (1)	10.00	10-5	-193 / 0	0.23 (1)
5-6	-9 / 14	-77.4	-77.4 0.50 (1)	10.00	9-5	-390 / 0	0.14 (1)
6-7	0 / 27	-77.4	-77.4 0.10 (1)	10.00	2-12	0 / 373	0.08 (1)
13-2	-562 / 0	0.0	0.0 0.06 (1)	7.81	9-6	-9 / 34	0.01 (1)
8-6	-314 / 0	0.0	0.0 0.03 (1)	7.81			
13-12	0 / 0	-17.5	-17.5 0.16 (4)	10.00			
12-11	0 / 369	-17.5	-17.5 0.19 (4)	10.00			
11-10	0 / 369	-17.5	-17.5 0.19 (4)	10.00			
10-9	-9 / 33	-17.5	-17.5 0.17 (4)	10.00			
9-8	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

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 (0.41")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.41")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.52/1.00 (2-3:1), BC=0.19/1.00 (10-12:4),
WB=0.72/1.00 (3-10:1), 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)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

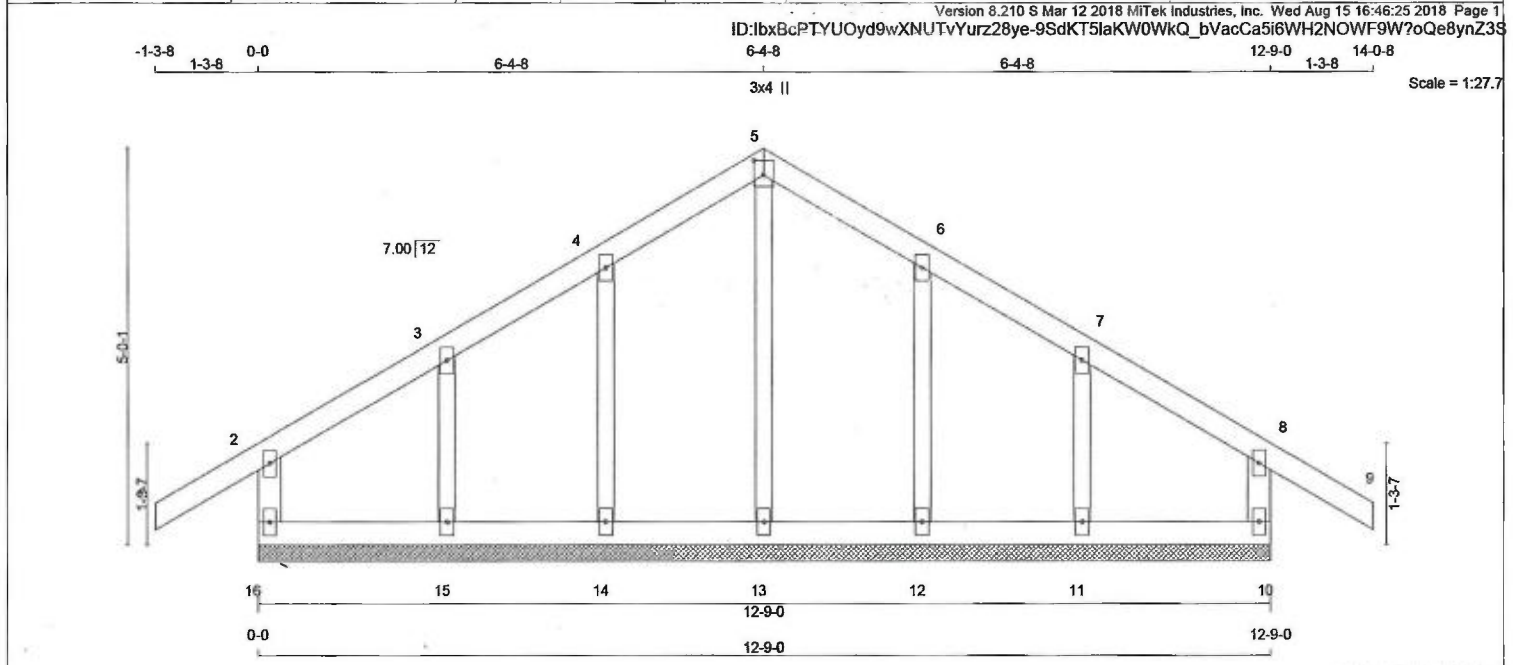
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (12) (INPUT = 0.90)
JSI METAL= 0.14 (12) (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 = 49 lb

[M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
16- 2	2x4	DRY No.2	SPF
1 - 5	2x4	DRY No.2	SPF
5 - 9	2x4	DRY No.2	SPF
10- 8	2x4	DRY No.2	SPF
16- 10	2x4	DRY No.2	SPF

ALL WEBS	2x3	DRY No.2	SPF
ALL GABLE WEBS	2x3	DRY No.2	SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. UNBRAC LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH FR-TO	MAX. UNBRAC LENGTH FR-TO
16-2	-209 / 0	0.0	0.0 0.01 (1)	7.81	13-5	-150 / 0	0.05 (1)
1-2	0 / 27	-77.4	-77.4 0.10 (1)	10.00	14-4	-153 / 0	0.04 (1)
2-3	-24 / 0	-77.4	-77.4 0.05 (1)	6.25	15-3	-161 / 0	0.03 (1)
3-4	-17 / 0	-77.4	-77.4 0.04 (1)	6.25	12-6	-153 / 0	0.04 (1)
4-5	-12 / 0	-77.4	-77.4 0.04 (1)	6.25	11-7	-161 / 0	0.03 (1)
5-6	-12 / 0	-77.4	-77.4 0.04 (1)	6.25			
6-7	-17 / 0	-77.4	-77.4 0.04 (1)	6.25			
7-8	-24 / 0	-77.4	-77.4 0.05 (1)	6.25			
8-9	0 / 27	-77.4	-77.4 0.10 (1)	10.00			
10-8	-209 / 0	0.0	0.0 0.01 (1)	7.81			
16-15	0 / 19	-17.5	-17.5 0.02 (4)	10.00			
15-14	0 / 14	-17.5	-17.5 0.02 (4)	10.00			
14-13	0 / 10	-17.5	-17.5 0.02 (4)	10.00			
13-12	0 / 10	-17.5	-17.5 0.02 (4)	10.00			
12-11	0 / 14	-17.5	-17.5 0.02 (4)	10.00			
11-10	0 / 19	-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

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

CSI: TC=0.10/1.00 (1-2:1), BC=0.02/1.00 (10-11:4), WB=0.05/1.00 (5-13:1), SSI=0.07/1.00 (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) (PSI)	SHEAR (PLI)	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.

JSI GRIP= 0.14 (8) (INPUT = 0.90)

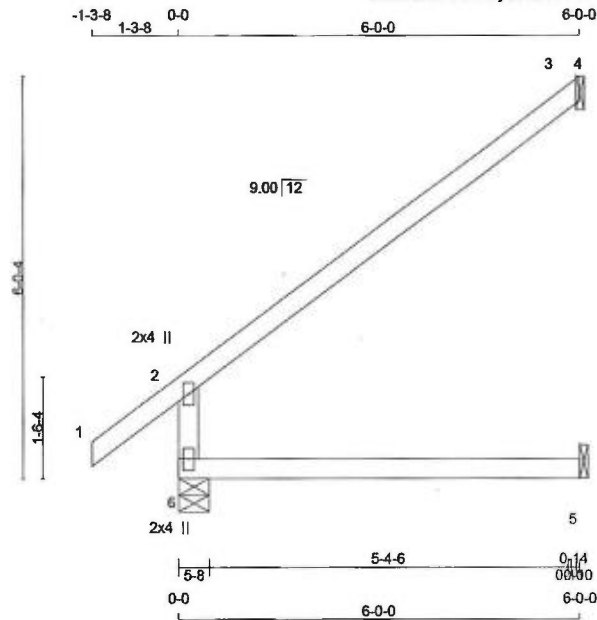
JSI METAL= 0.06 (5) (INPUT = 1.00)

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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TOTAL WEIGHT = 15 X 19 = 281 lb

LUMBER			N. L. G. A. RULES	
CHORDS	SIZE		LUMBER	DESCR.
6 - 2	2x4	DRY	No.2	SPF
1 - 4	2x4	DRY	No.2	SPF
6 - 5	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	
6	BMV1+p	MT20	2.0	4.0	

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
6	452	0	452	0	0	5-8
5	44	0	50	0	0	1-8
3	172	0	172	0	0	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 5, 3

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	314	236/0	0/0	0/0	0/0	79/0	0/0
5	35	0/0	0/0	0/0	0/0	35/0	0/0
3	117	103/0	0/0	0/0	0/0	14/0	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				WEBBS			
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			
6-2	-391 / 0	0.0	0.0	0.12 (4)	7.81		
1-2	0 / 32	-77.4	-77.4	0.11 (1)	10.00		
2-3	-34 / 0	-77.4	-77.4	0.46 (1)	6.25		
3-4	0 / 0	-7.5	-7.5	0.00 (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

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=0.46/1.00 (2-3:1), BC=0.13/1.00 (5-6:4),
WB=0.00/1.00 (n/a:0), SSI=0.18/1.00 (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) (PSI)		SHEAR (PLI)		SECTION (PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

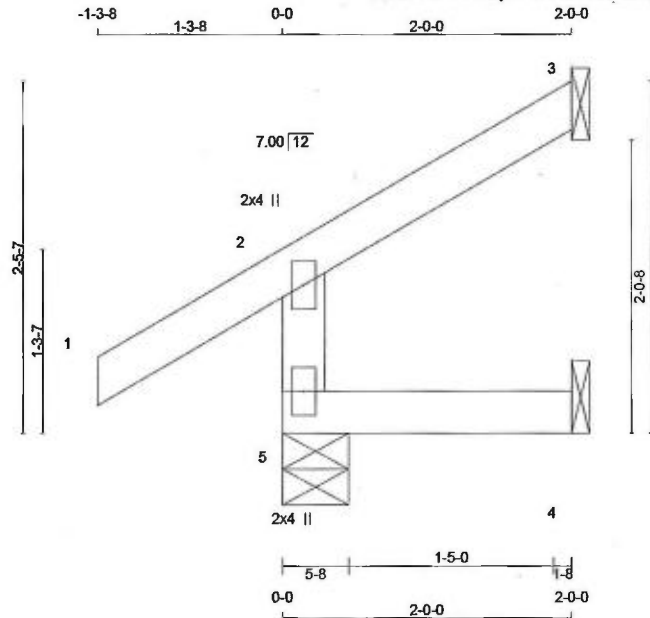
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.27 (2) (INPUT = 0.90)
JSI METAL= 0.10 (2) (INPUT = 1.00)



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





Scale = 1:15.3

TOTAL WEIGHT = 2 X 8 = 16 lb [M]

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
5	221	0	221	0	5-8	5-8
3	58	0	58	0	1-8	1-8
4	16	0	18	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	153	122 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0
3	40	35 / 0	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0
4	13	0 / 0	0 / 0	0 / 0	0 / 0	13 / 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 = 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: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH
FR-TO		FROM TO			FR-TO		
5-2	-202 / 0	0.0	0.0	0.01 (4)	7.81		
1-2	0 / 27	-77.4	-77.4	0.10 (1)	10.00		
2-3	-10 / 0	-77.4	-77.4	0.05 (1)	10.00		
5-4	0 / 0	-17.5	-17.5	0.02 (4)	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=0.10/1.00 (1-2:1), BC=0.02/1.00 (4-5:4), WB=0.00/1.00 (n/a:0), SSI=0.07/1.00 (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)	SHEAR	SECTION		
	(PSI)	(PLI)	(PLI)		
	MAX	MIN	MAX	MIN	MAX
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

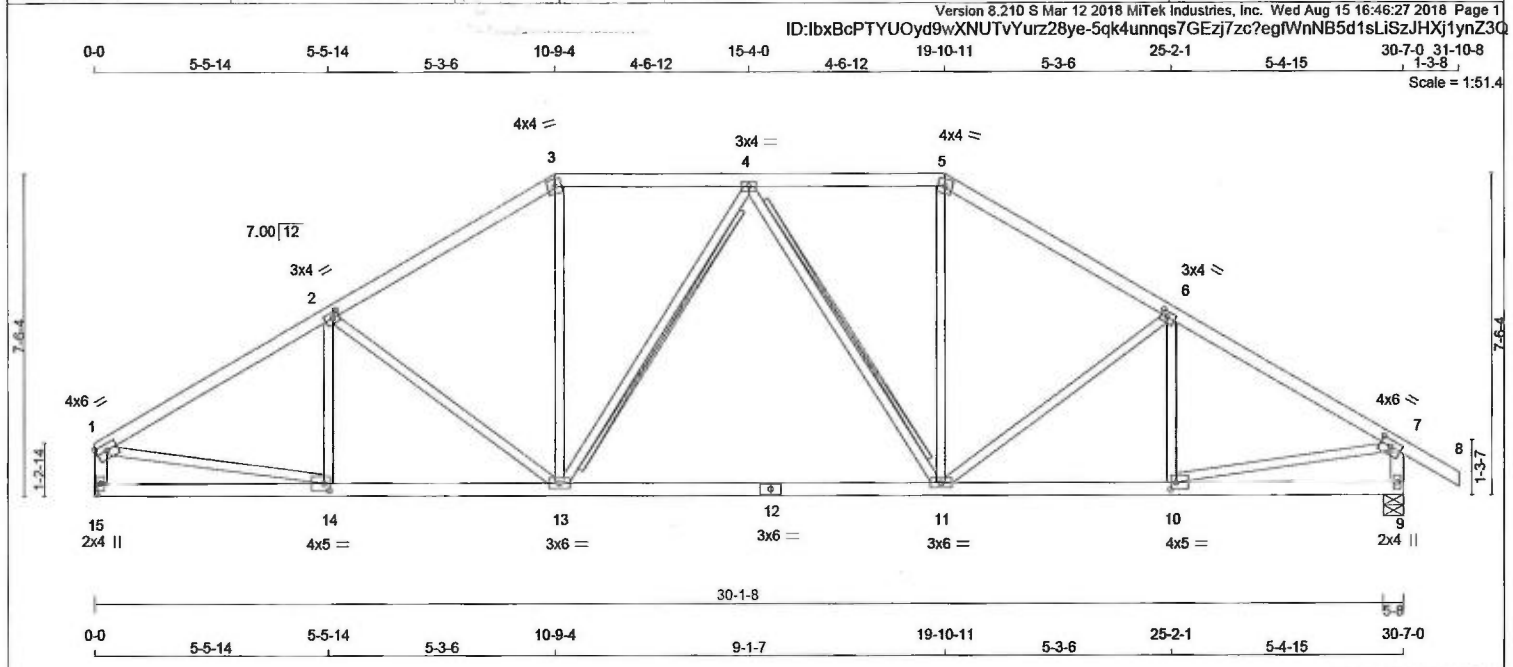
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.12 (2) (INPUT = 0.90)
JSI METAL= 0.05 (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.

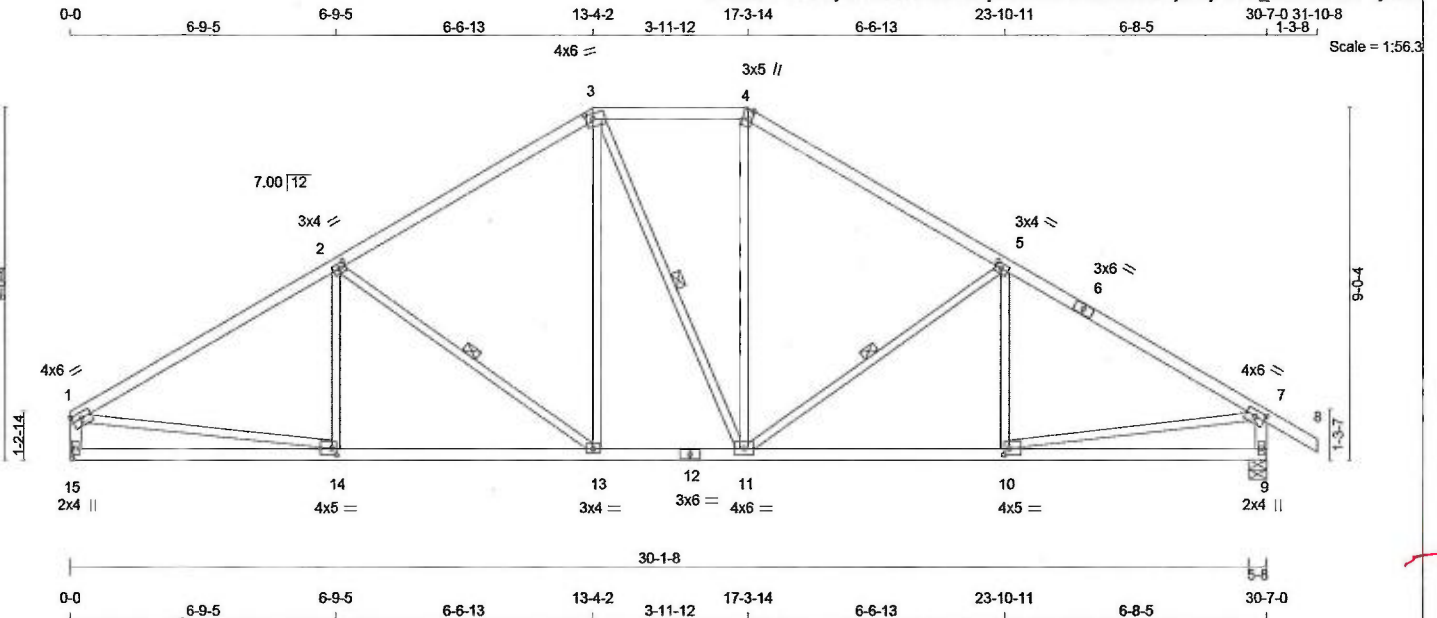




LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS										DESIGN CRITERIA		
1 - 3	2x4	DRY	No.2	SPF	FACTORED		MAXIMUM FACTORED		INPUT		REQRD		SPECIFIED LOADS:			
3 - 5	2x4	DRY	No.2	SPF	GROSS REACTION		GROSS REACTION		BRG		BRG		TOP CH. LL = 23.3	PSF		
5 - 8	2x4	DRY	No.2	SPF	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	DL = 3.0	PSF		
15 - 1	2x4	DRY	No.2	SPF	15	1451	0	1451	0	0	MECHANICAL		BOT CH. LL = 0.0	PSF		
9 - 7	2x4	DRY	No.2	SPF	9	1556	0	1556	0	0	5-8	5-8	DL = 7.0	PSF		
15 - 12	2x4	DRY	No.2	SPF	A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 15 TO RESIST THE MAX FACTORED REACTIONS.										TOTAL LOAD = 33.3	PSF
12 - 9	2x4	DRY	No.2	SPF												
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF											SPACING = 24.0 IN./C	
DRY: SEASONED LUMBER.				UNFACTORED REACTIONS										LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM		
				1ST LCASE MAX/MIN. COMPONENT REACTIONS										THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010		
				JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL					
				15	1018	712 / 0	0 / 0	0 / 0	0 / 0	306 / 0	0 / 0					
				9	1090	776 / 0	0 / 0	0 / 0	0 / 0	314 / 0	0 / 0					

PLATES (table is in inches)								
JT	TYPE	PLATES	W	LEN	Y	X		
1	TMVW-t	MT20	4.0	6.0	1.75	Edge		
2	TMWW-t	MT20	3.0	4.0	1.50	1.75		
3	TTW-m	MT20	4.0	4.0				
4	TMWW-t	MT20	3.0	4.0				
5	TTW-m	MT20	4.0	4.0				
6	TMWW-t	MT20	3.0	4.0	1.50	1.75		
7	TMVW-t	MT20	4.0	6.0	1.75	3.00		
9	BMV1+p	MT20	2.0	4.0				
10	BMWW-t	MT20	4.0	5.0	2.00	1.50		
11	BMWWW-t	MT20	3.0	6.0				
12	BS-t	MT20	3.0	6.0				
13	BMWWW-t	MT20	3.0	6.0				
14	BMWW-t	MT20	4.0	5.0	2.00	1.50		
15	BMV1+p	MT20	2.0	4.0				
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.								

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 9	THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011
BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.57 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.	(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
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.	ALLOWABLE DEFL.(LL)= L/360 (1.02") CALCULATED VERT. DEFL.(LL) = L/999 (0.08") ALLOWABLE DEFL.(TL)= L/360 (1.02") CALCULATED VERT. DEFL.(TL) = L/999 (0.23")
2x4 DRY SPF No.2 T-BRACE AT 4-13, 4-11	CSI: TC=0.35/1.00 (1-2:1), BC=0.39/1.00 (13-14:1), WB=0.38/1.00 (1-14:1), SSI=0.18/1.00 (1-2:1)
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.	DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW	



LUMBER				DESCR.			
CHORDS	SIZE	LUMBER		SPF			
1 - 3	2x4	DRY	No.2	SPF			
3 - 4	2x4	DRY	No.2	SPF			
4 - 6	2x4	DRY	No.2	SPF			
6 - 8	2x4	DRY	No.2	SPF			
15 - 1	2x4	DRY	No.2	SPF			
9 - 7	2x4	DRY	No.2	SPF			
15 - 12	2x4	DRY	No.2	SPF			
12 - 9	2x4	DRY	No.2	SPF			

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	4.0	6.0	1.75	Edge
2	TMVW-t	MT20	3.0	4.0	1.50	1.75
3	TTWW-m	MT20	4.0	6.0	1.75	2.25
4	TTW+m	MT20	3.0	5.0	2.75	1.25
5	TMVW-t	MT20	3.0	4.0	1.50	1.75
6	TS-t	MT20	3.0	6.0		
7	TMVW-t	MT20	4.0	6.0	1.75	3.00
9	BMV1+p	MT20	2.0	4.0		
10	BMVW-t	MT20	4.0	5.0	2.00	1.50
11	BMVWW-t	MT20	4.0	6.0		
12	BS-t	MT20	3.0	6.0		
13	BMVW-t	MT20	3.0	4.0		
14	BMVW-t	MT20	4.0	5.0	2.00	1.50
15	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT		GROSS REACTION		GROSS REACTION		BRG		BRG	
		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
15		1451	0	1451	0	0	MECHANICAL		
9		1556	0	1556	0	0	5-8	5-8	

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 15 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
15	1018	712 / 0	0 / 0	0 / 0	0 / 0	306 / 0	0 / 0
9	1090	776 / 0	0 / 0	0 / 0	0 / 0	314 / 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 = 4.30 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 2-13, 3-11, 5-11. DBS = 20'-0" . CBF = 65 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
1-2	-1902 / 0	-77.4 -77.4	0.56 (1)	4-30	-94 / 87	0.04 (1)	
2-3	-1482 / 0	-77.4 -77.4	0.50 (1)	4-80	-518 / 0	0.24 (1)	
3-4	-1255 / 0	-77.4 -77.4	0.18 (1)	5-56	13-3	0 / 389	0.09 (1)
4-5	-1481 / 0	-77.4 -77.4	0.50 (1)	4-81	3-11	-2 / 0	0.00 (1)
5-6	-1884 / 0	-77.4 -77.4	0.54 (1)	4-33	11-4	0 / 386	0.09 (1)
6-7	-1884 / 0	-77.4 -77.4	0.54 (1)	4-33	11-5	-500 / 0	0.23 (1)
7-8	0 / 27	-77.4 -77.4	0.10 (1)	10-00	10-5	-108 / 81	0.04 (1)
15-1	-1402 / 0	0.0 0.0	0.14 (1)	6-88	1-14	0 / 1685	0.38 (1)
9-7	-1508 / 0	0.0 0.0	0.15 (1)	6-68	10-7	0 / 1672	0.38 (1)
15-14	0 / 0	-17.5 -17.5	0.20 (4)	10-00			
14-13	0 / 1669	-17.5 -17.5	0.37 (1)	10-00			
13-12	0 / 1256	-17.5 -17.5	0.26 (1)	10-00			
12-11	0 / 1256	-17.5 -17.5	0.26 (1)	10-00			
11-10	0 / 1654	-17.5 -17.5	0.36 (1)	10-00			
10-9	0 / 0	-17.5 -17.5	0.19 (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, 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 (1.02")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (1.02")
CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

CSI: TC=0.56/1.00 (1-2:1), BC=0.37/1.00 (13-14:1), WB=0.38/1.00 (1-14:1), SSI=0.22/1.00 (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

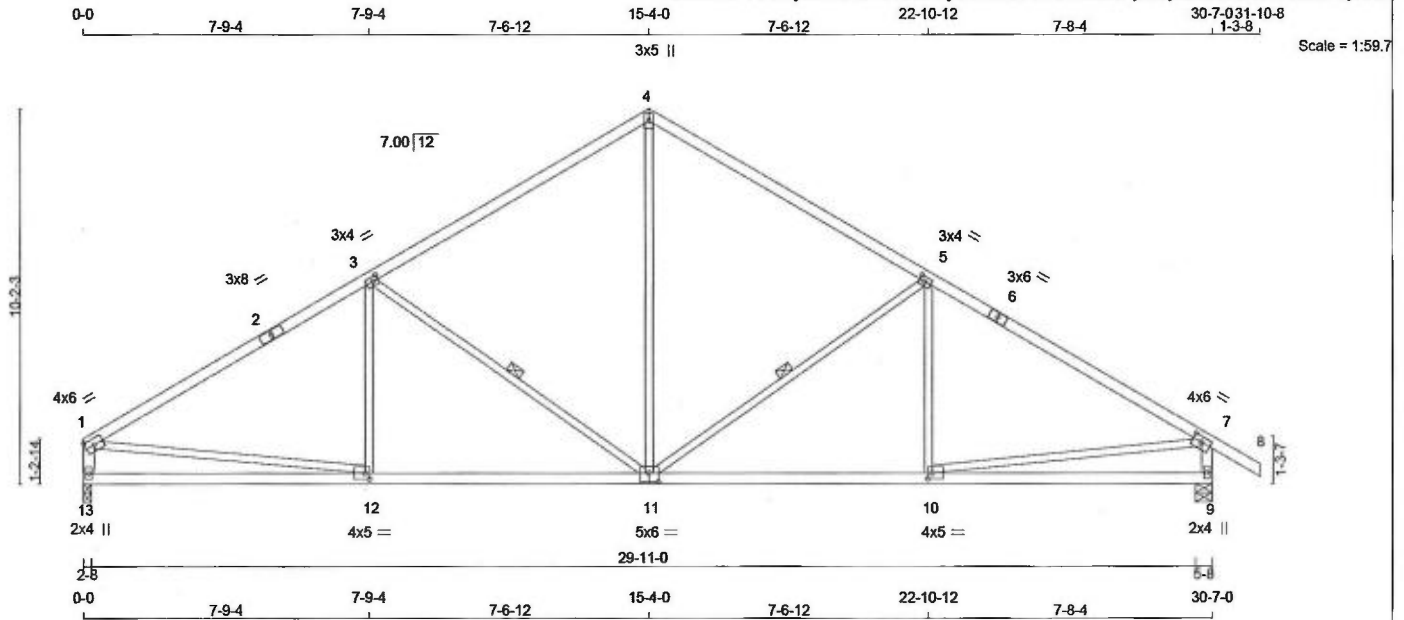
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (4) (INPUT = 0.90)
JSI METAL= 0.52 (7) (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 = 7 X 122 = 855 lb
(M/F)

LUMBER				DESCR.	
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
1 - 2	2x4	DRY	No.2	SPF	
2 - 4	2x4	DRY	No.2	SPF	
4 - 6	2x4	DRY	No.2	SPF	
6 - 8	2x4	DRY	No.2	SPF	
13 - 1	2x4	DRY	No.2	SPF	
9 - 7	2x4	DRY	No.2	SPF	
13 - 11	2x4	DRY	No.2	SPF	
11 - 9	2x4	DRY	No.2	SPF	

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
1	TMVW-I	MT20	4.0	6.0	Edge
2	TS-I	MT20	3.0	8.0	
3	TMWW-I	MT20	3.0	4.0	1.50 1.75
4	TTW+p	MT20	3.0	5.0	
5	TMWW-I	MT20	3.0	4.0	1.50 1.75
6	TS-I	MT20	3.0	6.0	
7	TMVW-I	MT20	4.0	6.0	1.75 3.00
9	BMV1+p	MT20	2.0	4.0	
10	BMWW-I	MT20	4.0	5.0	2.00 1.50
11	BSWW-I	MT20	5.0	6.0	3.00 3.00
12	BMWW-I	MT20	4.0	5.0	2.00 1.50
13	BMV1+p	MT20	2.0	4.0	

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
13	1451	0	1451	0	2-8	2-8
9	1556	0	1556	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
13	1018	712 / 0	0 / 0	0 / 0	0 / 0	306 / 0	0 / 0
9	1090	776 / 0	0 / 0	0 / 0	0 / 0	314 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 13, 9

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.99 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 3-11, 5-11. DBS = 20-0-0. CBF = 81 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO			
1-2	-1886 / 0	-77.4 -77.4	0.77 (1)	12-3	-48 / 113	0.04 (4)	
2-3	-1886 / 0	-77.4 -77.4	0.77 (1)	3-11	-651 / 0	0.40 (1)	
3-4	-1347 / 0	-77.4 -77.4	0.67 (1)	4-6	0 / 881	0.20 (1)	
4-5	-1347 / 0	-77.4 -77.4	0.67 (1)	11-5	-637 / 0	0.39 (1)	
5-6	-1872 / 0	-77.4 -77.4	0.75 (1)	10-5	-60 / 109	0.04 (4)	
6-7	-1872 / 0	-77.4 -77.4	0.75 (1)	4-03	1-12	0 / 1672	0.38 (1)
7-8	0 / 27	-77.4 -77.4	0.10 (1)	10-7	0 / 1661	0.37 (1)	
13-1	-1395 / 0	0.0 0.0	0.14 (1)				
9-7	-1501 / 0	0.0 0.0	0.15 (1)				
13-12	0 / 0	-17.5 -17.5	0.25 (4)	10.00			
12-11	0 / 1660	-17.5 -17.5	0.40 (1)	10.00			
11-10	0 / 1648	-17.5 -17.5	0.39 (1)	10.00			
10-9	0 / 0	-17.5 -17.5	0.25 (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 (1.02")
CALCULATED VERT. DEFL. (LL) = L/999 (0.08")
ALLOWABLE DEFL. (TL) = L/360 (1.02")
CALCULATED VERT. DEFL. (TL) = L/999 (0.17")

CSI: TC=0.77/1.00 (1-3:1), BC=0.40/1.00 (11-12:1),
WB=0.40/1.00 (3-11:1), SSI=0.25/1.00 (1-3:1)

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 (PSI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 822
	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

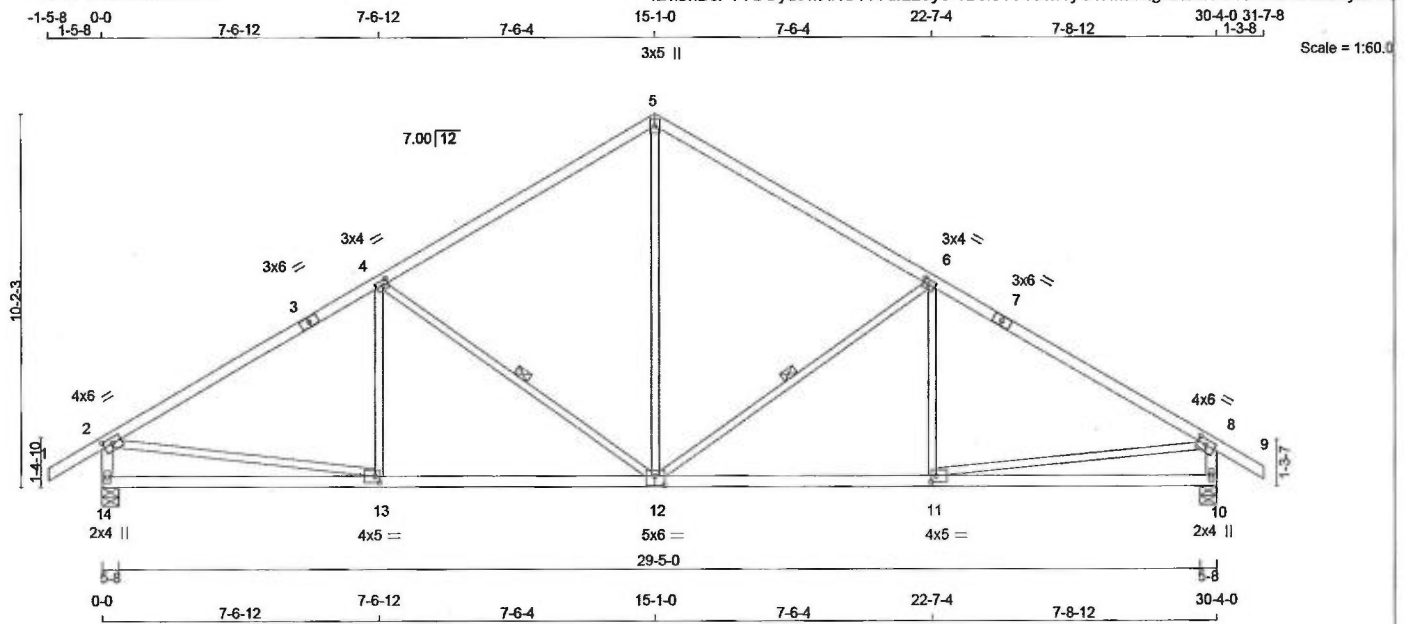
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (1) (INPUT = 0.90)
JSI METAL= 0.52 (7) (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 123 = 247 lb [M] [P]

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
1 - 3	2x4	DRY	No.2
3 - 5	2x4	DRY	No.2
5 - 7	2x4	DRY	No.2
7 - 9	2x4	DRY	No.2
14 - 2	2x4	DRY	No.2
10 - 8	2x4	DRY	No.2
14 - 12	2x4	DRY	No.2
12 - 10	2x4	DRY	No.2

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	IN-SX	IN-SX
14	1557	0	1557	0	0	5-8	5-8	5-8	5-8
10	1544	0	1544	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS		LIVE		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
14	1090	778 / 0	0 / 0	0 / 0	0 / 0	313 / 0	0 / 0	14	1090	778 / 0	0 / 0	0 / 0	0 / 0
10	1081	770 / 0	0 / 0	0 / 0	0 / 0	312 / 0	0 / 0	10	1081	770 / 0	0 / 0	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 14, 10

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.04 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-12, 6-12. DBS = 20-0-0. CBF = 80 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	UNBRACED LENGTH (FT)
FR-TO				FR-TO			
1-2	0 / 30	-77.4	-77.4 0.13 (1)	10-0	-81 / 101	0.04 (1)	
2-3	-1822 / 0	-77.4	-77.4 0.72 (1)	4-11	-608 / 0	0.37 (1)	
3-4	-1822 / 0	-77.4	-77.4 0.72 (1)	4-11	0 / 861	0.19 (1)	
4-5	-1325 / 0	-77.4	-77.4 0.65 (1)	4-11	-639 / 0	0.39 (1)	
5-6	-1326 / 0	-77.4	-77.4 0.66 (1)	4-11	-56 / 110	0.04 (4)	
6-7	-1851 / 0	-77.4	-77.4 0.75 (1)	4-04	2-13	0 / 1621	0.36 (1)
7-8	-1851 / 0	-77.4	-77.4 0.75 (1)	4-04	11-8	0 / 1642	0.37 (1)
8-9	0 / 27	-77.4	-77.4 0.10 (1)	10-0			
14-2	-1503 / 0	0.0	0.0 0.15 (1)	6.70			
10-8	-1489 / 0	0.0	0.0 0.15 (1)	6.72			
14-13	0 / 0	-17.5	-17.5 0.24 (4)	10.00			
13-12	0 / 1605	-17.5	-17.5 0.38 (1)	10.00			
12-11	0 / 1630	-17.5	-17.5 0.39 (1)	10.00			
11-10	0 / 0	-17.5	-17.5 0.25 (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 (1.01")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (1.01")
CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

CSI: TC=0.75/1.00 (6-8:1), BC=0.39/1.00 (11-12:1), WB=0.39/1.00 (6-12:1), SSI=0.25/1.00 (6-8:1)

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= 0.88 (12) (INPUT = 0.90)
JSI METAL= 0.51 (8) (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.



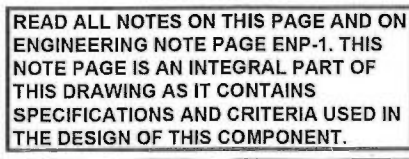


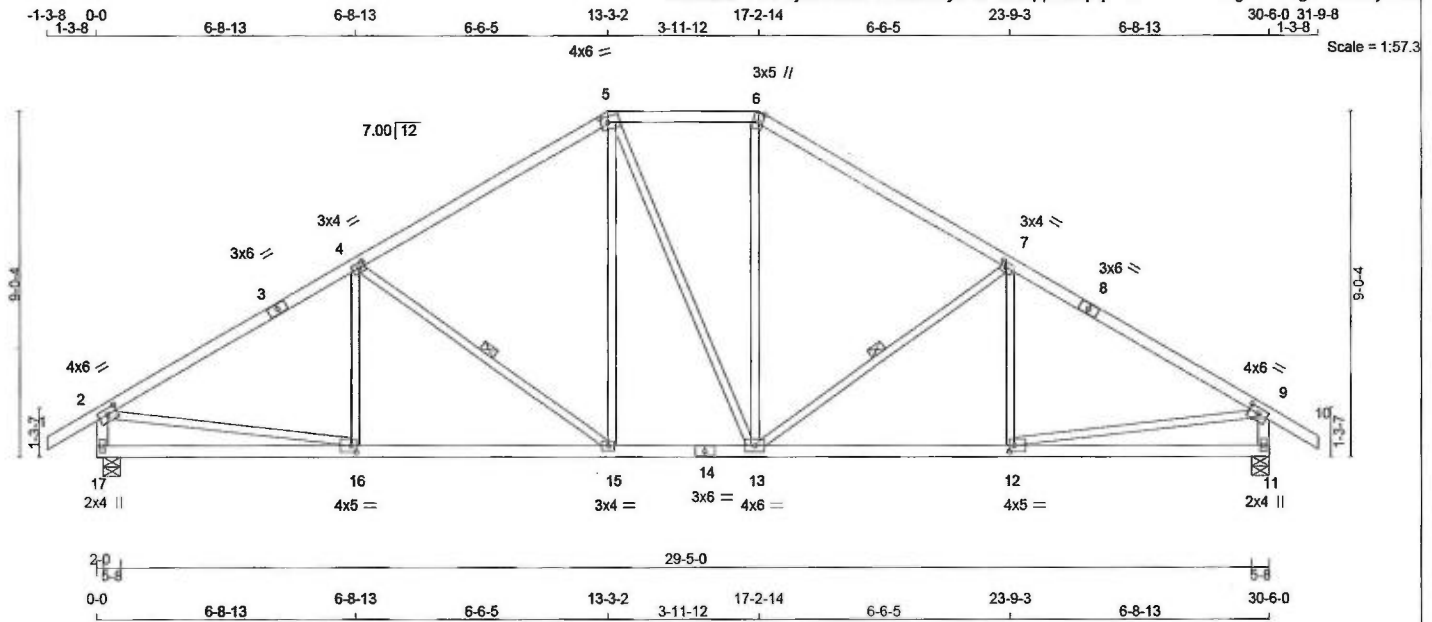
ST	COMBINED	GROW	AVE	PERCENTAGE	RISK	SEEK	SEEK
16	1087	774/0	0/0	0/0	0/0	313/0	0/0
10	1087	774/0	0/0	0/0	0/0	313/0	0/0

SPACING = 24.0 IN. C/C

LOADING
TOTAL LOAD CASES: (4)

JSI GRIP= 0.89 (15) (INPUT = 0.90)
JSI METAL= 0.56 (13) (INPUT = 1.00)





TOTAL WEIGHT = 132 lb
[M]F

LUMBER				DESCR.	
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
1 - 3	2x4	DRY	No.2	SPF	
3 - 5	2x4	DRY	No.2	SPF	
5 - 6	2x4	DRY	No.2	SPF	
6 - 8	2x4	DRY	No.2	SPF	
8 - 10	2x4	DRY	No.2	SPF	
17 - 2	2x4	DRY	No.2	SPF	
11 - 9	2x4	DRY	No.2	SPF	
17 - 14	2x4	DRY	No.2	SPF	
14 - 11	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-1	MT20	4.0	6.0	1.75 3.00
3	TS-1	MT20	3.0	6.0	
4	TMVW-1	MT20	3.0	4.0	1.50 1.75
5	TTWW-m	MT20	4.0	6.0	1.75 2.25
6	TTWW-m	MT20	3.0	5.0	2.75 1.25
7	TMVW-1	MT20	3.0	4.0	1.50 1.75
8	TS-1	MT20	3.0	6.0	
9	TMVW-1	MT20	4.0	6.0	1.75 3.00
11	BMV1+p	MT20	2.0	4.0	
12	BMVW-1	MT20	4.0	5.0	2.00 1.50
13	BMVW-1	MT20	4.0	6.0	
14	BS-1	MT20	3.0	6.0	
15	BMVW-1	MT20	3.0	4.0	
16	BMVW-1	MT20	4.0	5.0	2.00 1.50
17	BMV1+p	MT20	2.0	4.0	

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
17	1552	0	1552	0	5-8	5-8
11	1552	0	1552	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		LIVE	PERM. LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	VERT	HORZ					
17	1087	774 / 0	0 / 0	0 / 0	0 / 0	0 / 0	313 / 0	0 / 0	0 / 0
11	1087	774 / 0	0 / 0	0 / 0	0 / 0	0 / 0	313 / 0	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 17, 11

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.33 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, 7-13. DBS = 20-0-0. CBF = 63 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LC1) (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. VERT. LOAD (LC1) (LBS)	MAX. VERT. LOAD (LC1) (LBS)
FR-TO		FROM TO	CSI (LC)	FR-TO			
1-2	0 / 27	-77.4 -77.4	0.10 (1)	10-00	16-4	-105 / 83	0.04 (1)
2-3	-1877 / 0	-77.4 -77.4	0.55 (1)	4-33	4-15	-502 / 0	0.23 (1)
3-4	-1877 / 0	-77.4 -77.4	0.55 (1)	4-33	15-5	0 / 382	0.09 (1)
4-5	-1473 / 0	-77.4 -77.4	0.49 (1)	4-82	5-13	0 / 2	0.00 (1)
5-6	-1249 / 0	-77.4 -77.4	0.17 (1)	5-57	13-6	0 / 385	0.09 (1)
6-7	-1474 / 0	-77.4 -77.4	0.49 (1)	4-82	13-7	-501 / 0	0.23 (1)
7-8	-1877 / 0	-77.4 -77.4	0.55 (1)	4-33	12-7	-106 / 82	0.04 (1)
8-9	-1877 / 0	-77.4 -77.4	0.55 (1)	4-33	2-16	0 / 1665	0.37 (1)
9-10	0 / 27	-77.4 -77.4	0.10 (1)	10-00	12-9	0 / 1665	0.37 (1)
17-2	-1504 / 0	0.0 0.0	0.15 (1)	6-69			
11-9	-1504 / 0	0.0 0.0	0.15 (1)	6-69			
17-16	0 / 0	-17.5 -17.5	0.20 (4)	10-00			
16-15	0 / 1648	-17.5 -17.5	0.36 (1)	10-00			
15-14	0 / 1248	-17.5 -17.5	0.26 (1)	10-00			
14-13	0 / 1248	-17.5 -17.5	0.26 (1)	10-00			
13-12	0 / 1648	-17.5 -17.5	0.36 (1)	10-00			
12-11	0 / 0	-17.5 -17.5	0.20 (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 (1.02")
CALCULATED VERT. DEFL. (LL) = L/999 (0.08")
ALLOWABLE DEFL. (TL) = L/360 (1.02")
CALCULATED VERT. DEFL. (TL) = L/999 (0.16")

CSI: TC=0.55/1.00 (7-9:1), BC=0.36/1.00 (15-16:1), WB=0.37/1.00 (9-12:1), SS=0.22/1.00 (7-9:1)

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 (PSI)	SECTION (PLI)
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

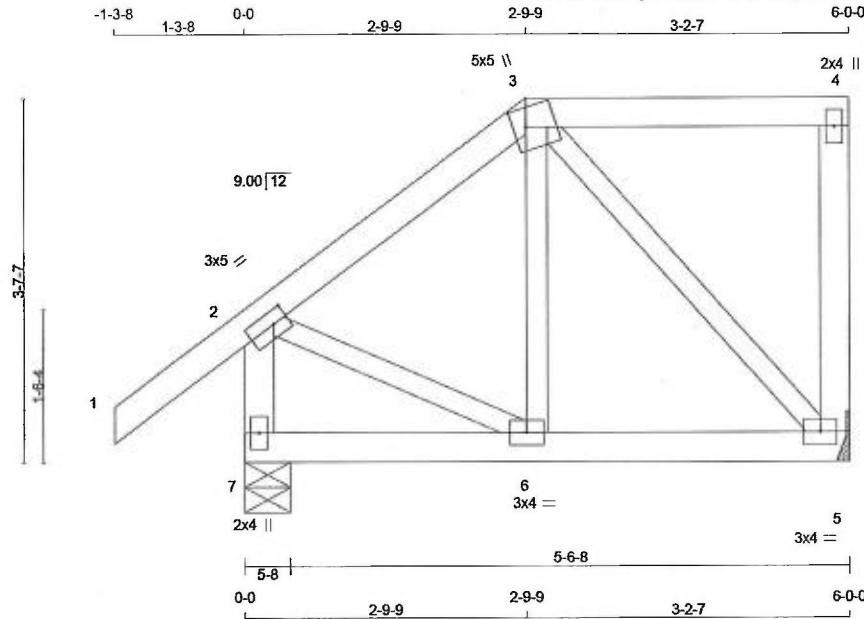
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (6) (INPUT = 0.90)
JSI METAL= 0.51 (9) (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 = 1:21.9

TOTAL WEIGHT = 29 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	DRY	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
5 - 4	2x4	DRY	No.2	SPF
7 - 2	2x4	DRY	No.2	SPF
7 - 5	2x4	DRY	No.2	SPF
ALL WEBS 2x3 DRY No.2 SPF				
EXCEPT				

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	5.0	1.50	1.75
3	TTWW+m	MT20	5.0	5.0	2.25	1.50
4	TMV+p	MT20	2.0	4.0		
5	BMVW1-t	MT20	3.0	4.0		
6	BMWW-t	MT20	3.0	4.0		
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	GROSS REACTION	DOWN	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
5	285	0	285	0	0	MECHANICAL			
7	391	0	391	0	0	5-8		5-8	

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
5	200	140 / 0	0 / 0	0 / 0	0 / 0	0 / 0	60 / 0	0 / 0
7	272	204 / 0	0 / 0	0 / 0	0 / 0	0 / 0	68 / 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 FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO			
1-2	0 / 32	-77.4	-77.4 0.11 (1)	10.00	6-3	0 / 54	0.02 (4)
2-3	-168 / 0	-77.4	-77.4 0.10 (1)	6.25	3-5	-193 / 0	0.06 (1)
3-4	0 / 0	-77.4	-77.4 0.14 (1)	10.00	2-6	0 / 145	0.03 (1)
5-4	-124 / 0	0.0	0.0 0.03 (1)	7.81			
7-2	-371 / 0	0.0	0.0 0.04 (1)	7.81			
7-6	0 / 0	-17.5	-17.5 0.04 (4)	10.00			
6-5	0 / 134	-17.5	-17.5 0.05 (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 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.00")

CSI: TC=0.14/1.00 (3-4:1), BC=0.05/1.00 (5-6:4),
WB=0.06/1.00 (3-5:1), SSI=0.10/1.00 (3-4:1)

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	MAX MIN	MAX MIN
MT20	618 354	1667 822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

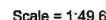
JSI GRIP= 0.31 (2) (INPUT = 0.90)
JSI METAL= 0.09 (2) (INPUT = 1.00)



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.

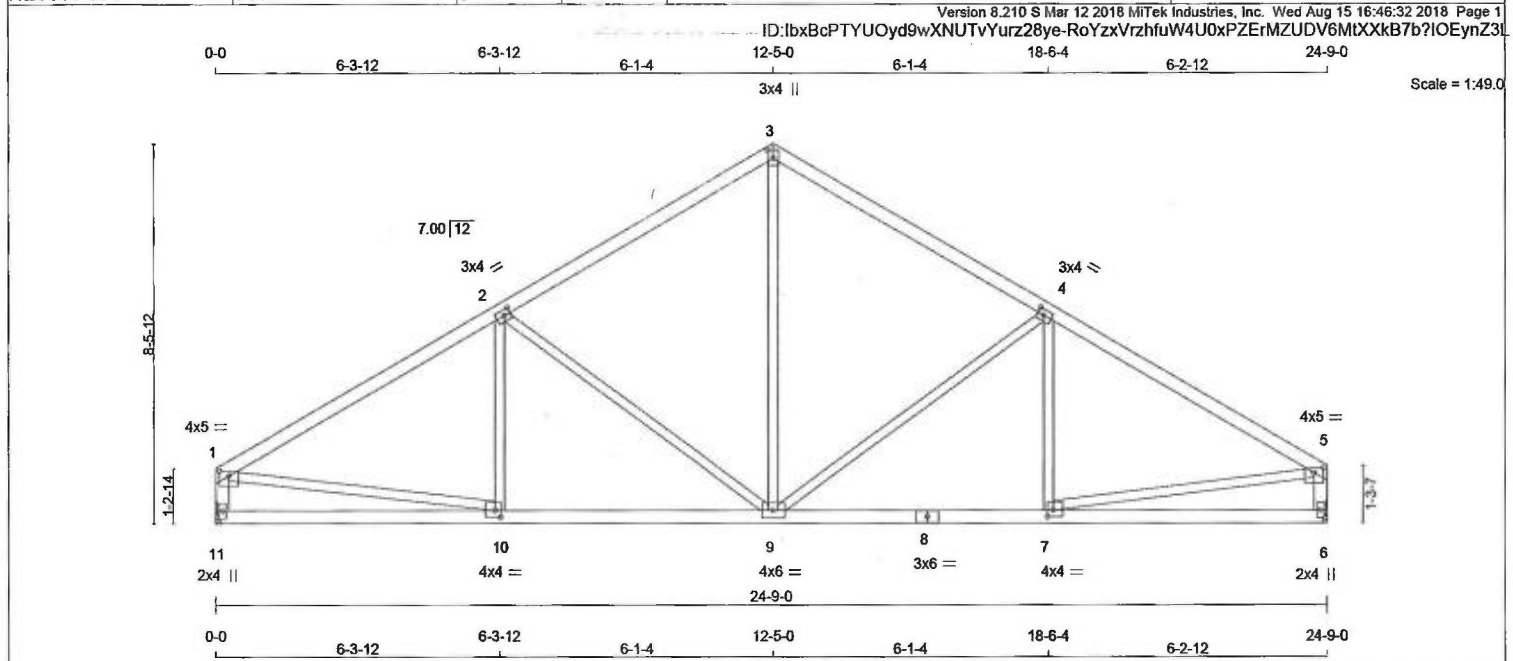


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(M)F





TOTAL WEIGHT = 98 lb [M]F

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
11 - 1	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
11 - 8	2x4	DRY	No.2	SPF
8 - 6	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
1	TMVW-p	MT20	4.0	5.0	1.25	2.50
2	TMWW-t	MT20	3.0	4.0	1.50	1.75
3	TTW+p	MT20	3.0	4.0	2.25	1.50
4	TMWW-t	MT20	3.0	4.0	1.50	1.75
5	TMVW-p	MT20	4.0	5.0	1.25	2.50
6	BMV1+p	MT20	2.0	4.0		
7	BMWW-t	MT20	4.0	4.0	1.75	1.50
8	BS-t	MT20	3.0	6.0		
9	BMWW-t	MT20	4.0	6.0		
10	BMWW-t	MT20	4.0	4.0	1.75	1.50
11	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	REQD BRG
	VERT	HORZ	DOWN	HORZ		
11	1174	0	1174	0	0	MECHANICAL
6	1174	0	1174	0	0	MECHANICAL

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 11, 6 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
11	824	576 / 0	0 / 0	0 / 0	0 / 0	248 / 0	0 / 0
6	824	576 / 0	0 / 0	0 / 0	0 / 0	248 / 0	0 / 0

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.92 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1) (LBS)	MAX. FACTORED VERT. LOAD (LC1) (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC1) (LBS)
FR-TO					FR-TO		
1-2	-1464 / 0	-77.4	-77.4 0.44 (1)	4.82	10-2	-69 / 83	0.03 (4)
2-3	-1067 / 0	-77.4	-77.4 0.40 (1)	5.59	2-9	-493 / 0	0.58 (1)
3-4	-1066 / 0	-77.4	-77.4 0.40 (1)	5.60	9-3	0 / 690	0.16 (1)
4-5	-1451 / 0	-77.4	-77.4 0.43 (1)	4.95	9-4	-479 / 0	0.57 (1)
11-1	-1128 / 0	0.0	0.0 0.11 (1)	7.48	7-4	-81 / 79	0.03 (1)
6-5	-1128 / 0	0.0	0.0 0.11 (1)	7.48	1-10	0 / 1303	0.29 (1)
					7-5	0 / 1293	0.29 (1)
11-10	0 / 0	-17.5	-17.5 0.16 (4)	10.00			
10-9	0 / 1289	-17.5	-17.5 0.29 (1)	10.00			
9-8	0 / 1278	-17.5	-17.5 0.28 (1)	10.00			
8-7	0 / 1278	-17.5	-17.5 0.28 (1)	10.00			
7-6	0 / 0	-17.5	-17.5 0.16 (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 (0.83")
CALCULATED VERT. DEFL.(LL)= L/999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.83")
CALCULATED VERT. DEFL.(TL)= L/999 (0.10")

CSI: TC=0.44/1.00 (1-2:1), BC=0.29/1.00 (9-10:1), WB=0.58/1.00 (2-9:1), SSI=0.20/1.00 (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

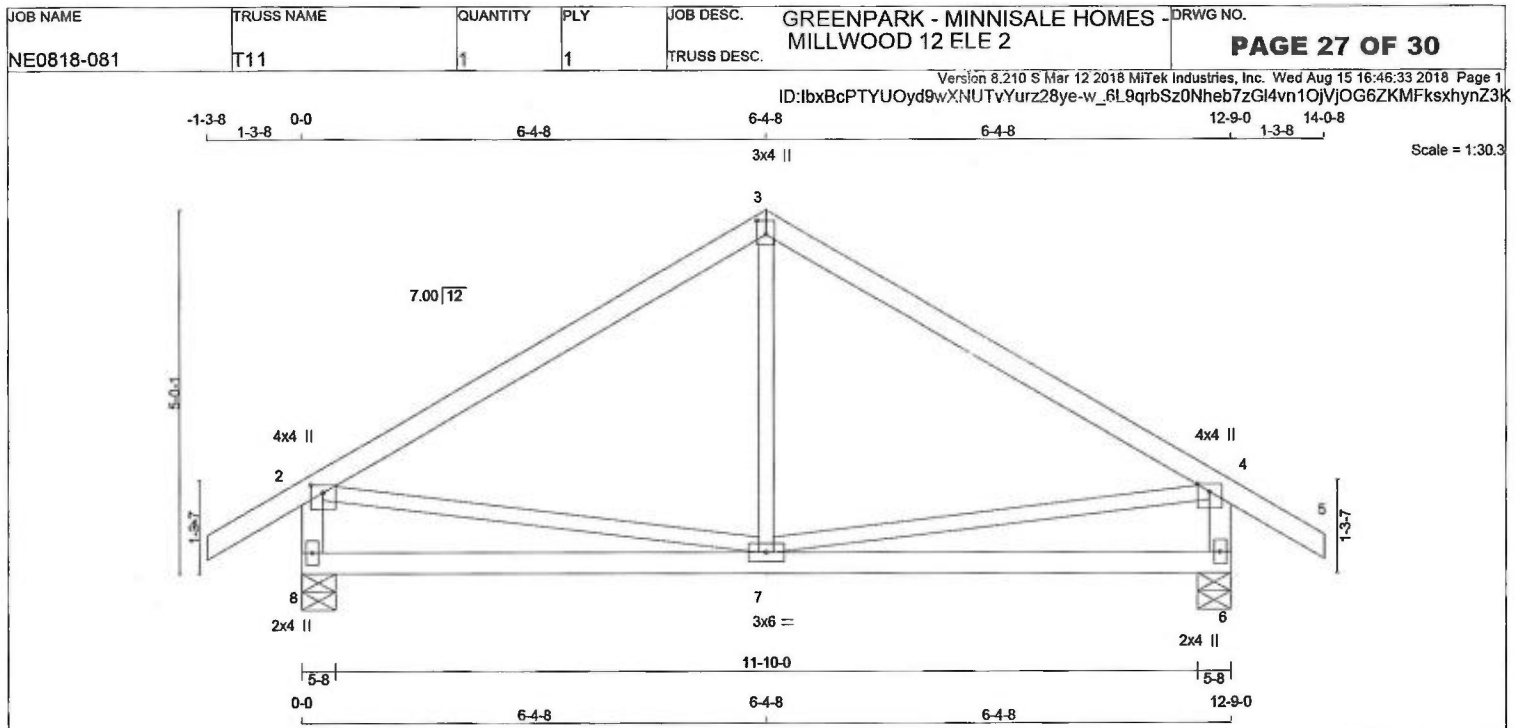
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.88 (1) (INPUT = 0.90)
JSI METAL= 0.48 (10) (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 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
8 - 2	2x4	DRY	No.2	SPF
6 - 4	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW+p	MT20	4.0	4.0	1.25	2.00
3	TTW+p	MT20	3.0	4.0	2.25	1.50
4	TMVW+p	MT20	4.0	4.0	1.25	2.00
6	BMV1+p	MT20	2.0	4.0		
7	BMVWW-t	MT20	3.0	6.0		
8	BMV1+p	MT20	2.0	4.0		

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	DOWN	HORZ	BRG	IN-SX	BRG
8	710	0	710	0	0	5-8	5-8	5-8	5-8
6	710	0	710	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
8	496	360 / 0	0 / 0	0 / 0	0 / 0	0 / 0	136 / 0	0 / 0
6	496	360 / 0	0 / 0	0 / 0	0 / 0	0 / 0	136 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO			
1-2	0 / 27	-77.4 -77.4 0.10 (1)	10.00	7-3	0 / 112	0.04 (4)	
2-3	-496 / 0	-77.4 -77.4 0.41 (1)	6.25	2-7	0 / 434	0.10 (1)	
3-4	-496 / 0	-77.4 -77.4 0.41 (1)	6.25	7-4	0 / 434	0.10 (1)	
4-5	0 / 27	-77.4 -77.4 0.10 (1)	10.00				
8-2	-668 / 0	0.0 0.0 0.07 (1)	7.81				
6-4	-668 / 0	0.0 0.0 0.07 (1)	7.81				
8-7	0 / 0	-17.5 -17.5 0.20 (4)	10.00				
7-6	0 / 0	-17.5 -17.5 0.20 (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 (0.43")
CALCULATED VERT. DEFL.(LL)= L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.43")
CALCULATED VERT. DEFL.(TL)= L/999 (0.04")

CSI: TC=0.41/1.00 (3-4:1), BC=0.20/1.00 (7-8:4),
WB=0.10/1.00 (2-7:1), SS=0.17/1.00 (3-4:1)

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

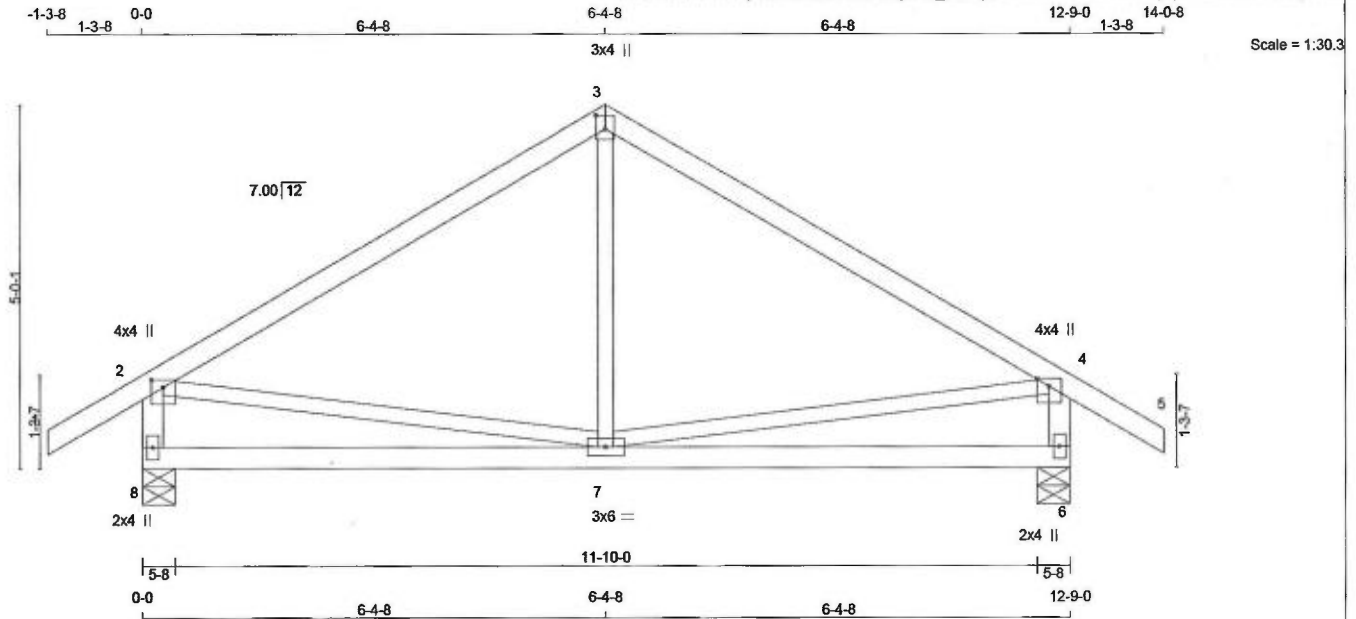
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (7) (INPUT = 0.90)
JSI METAL= 0.16 (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 = 50 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF		
3 - 5	2x4	DRY	No.2	SPF		
8 - 2	2x4	DRY	No.2	SPF		
6 - 4	2x4	DRY	No.2	SPF		
8 - 6	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+p	MT20	4.0	4.0	1.25	2.00
3	TTW+p	MT20	3.0	4.0	2.25	1.50
4	TMVW+p	MT20	4.0	4.0	1.25	2.00
6	BMV1+p	MT20	2.0	4.0		
7	BMVWW-t	MT20	3.0	6.0		
8	BMV1+p	MT20	2.0	4.0		

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

BEARINGS								
JT	FACTORED		MAXIMUM FACTORED			INPUT	REQD	
	GROSS REACTION		GROSS REACTION			BRG	BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
8	710	0	710	0	0	5-8	5-8	
6	710	0	710	0	0	5-8	5-8	

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
8	496	360 / 0	0 / 0	0 / 0	0 / 0	136 / 0	0 / 0
6	496	360 / 0	0 / 0	0 / 0	0 / 0	136 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 27	-77.4 -77.4	0.10 (1)	10.00	7-3	0 / 112	0.04 (4)
2-3	-496 / 0	-77.4 -77.4	0.41 (1)	6.25	2-7	0 / 434	0.10 (1)
3-4	-496 / 0	-77.4 -77.4	0.41 (1)	6.25	7-4	0 / 434	0.10 (1)
4-5	0 / 27	-77.4 -77.4	0.10 (1)	10.00			
8-2	-668 / 0	0.0 0.0	0.07 (1)	7.81			
6-4	-668 / 0	0.0 0.0	0.07 (1)	7.81			
8-7	0 / 0	-17.5 -17.5	0.20 (4)	10.00			
7-6	0 / 0	-17.5 -17.5	0.20 (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 (0.43")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.41/1.00 (3-4:1), BC=0.20/1.00 (7-8:4),
WB=0.10/1.00 (2-7:1), SSI=0.17/1.00 (3-4:1)

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) (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= 0.90 (7) (INPUT = 0.90)
JSI METAL= 0.16 (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.



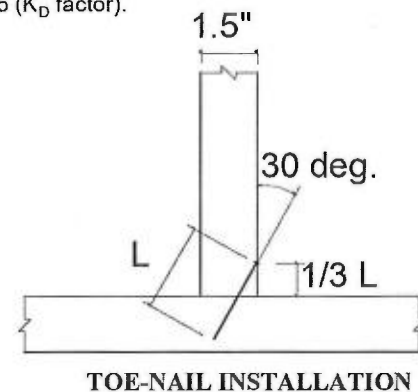
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

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
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Bradford, Ontario L3Z 3G7

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Certificate No. 10889485



April 26, 2017

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B37579H2

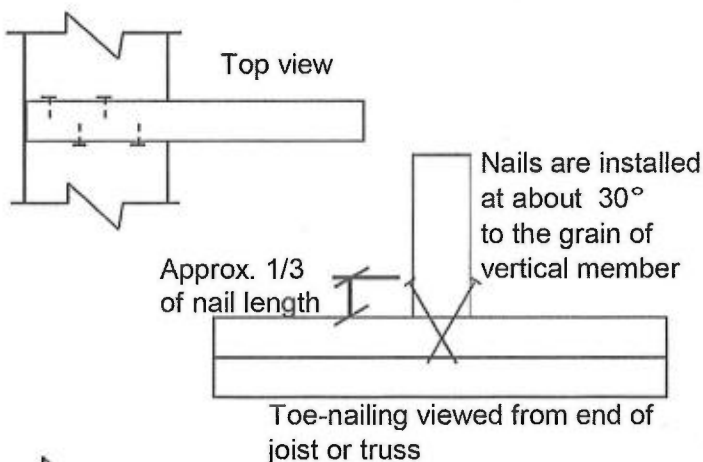
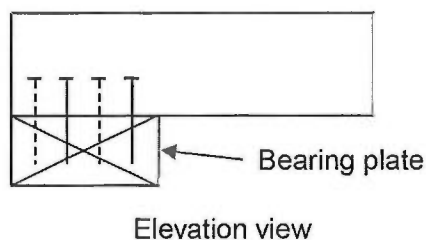
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52

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

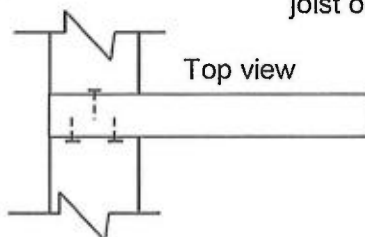
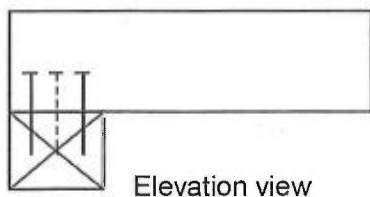
NOTES:

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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April 26, 2017