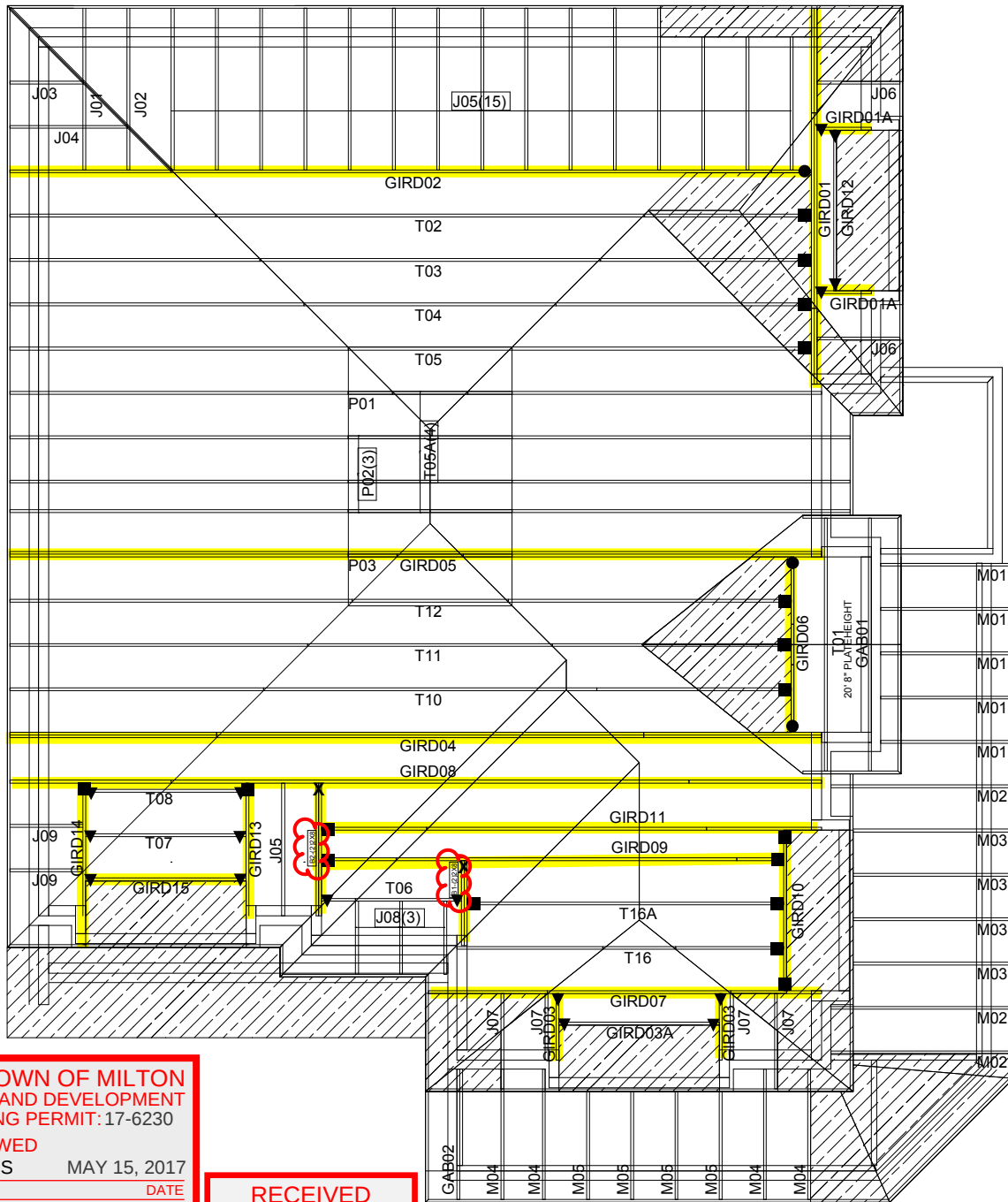




TOWN OF MILTON
PLANNING AND DEVELOPMENT
BUILDING PERMIT: 17-6230

BUILDING: REVIEWED

SCOTT SHERRIFFS MAY 15, 2017

PLANS EXAMINER DATE

Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relieves the owner from full responsibility for compliance with the provisions of the Ontario Building Code Act and the Ontario Building Code, both as amended, as well as other applicable statutes and regulations of the Province of Ontario, By-laws of the Region of Halton and Town of Milton

RECEIVED
TOWN OF MILTON
MAY 11, 2017
17-6230
BUILDING DIVISION



CONVENTIONAL FRAMING BY OTHERS

ALL CONVENTIONAL FRAMING TO CONFORM WITH PART 9 OF THE O.B.C.
ROOF RAFTERS THAT CROSS MEET OVER TRUSSES TO BE 2x4 S.P.F. @ 24"O/C WITH A 2x4 VERTICAL POST TO THE TRUSS UNDERNEATH EACH CROSS POINT. VERTICAL POST LONGER THAN 6' TO HAVE LATERAL BRACING SO THAT THE DISTANCE BETWEEN END POINT AND BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'.

HANGER LEGEND:

▼ LUS24 ■ LJS26DS
● HGUS26 X HGUS26-2

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

Model: **LOT 254 JUNIPER 11 EL 2**

Customer: **GREENPARK**

Project: **LECCO RIDGE**

Location: **MILTON**

Date: **3/24/2017** Drawn by: **BB**

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

RESPONSIBILITIES

THIS DESIGN IS FOR AN INDIVIDUAL BUILDING COMPONENT AND HAS BEEN BASED ON INFORMATION PROVIDED BY 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

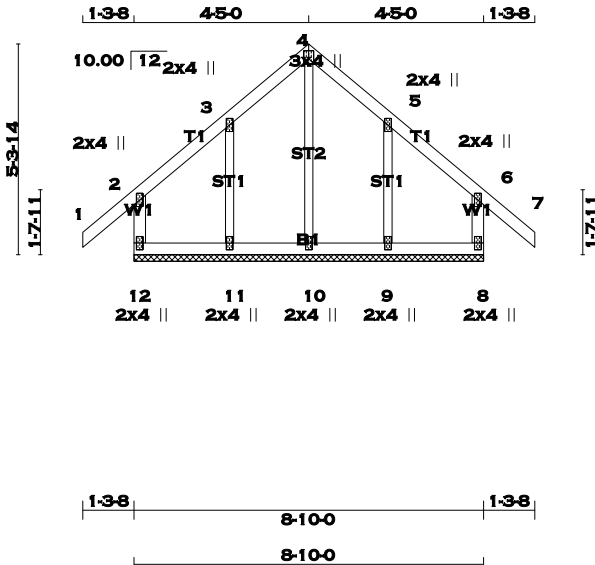
- The trusses are to be supported at the bearing points indicated and anchored to the supports where considered necessary by the designer of the overall structure
- Bearing sizes shown are the minimum required to prevent crushing of the truss members and do not necessarily take into account stability 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.



01/29/2013



SCALE = 1:58.2

TOTAL WEIGHT = 39 lb [M]

LUMBER					
N. L. G. A. RULES					
CHORDS	SIZE		LUMBER	DESCR.	
12- 2	2x4	DRY	No.2	SPF	
1 - 4	2x4	DRY	No.2	SPF	
4 - 7	2x4	DRY	No.2	SPF	
8 - 6	2x4	DRY	No.2	SPF	
12- 8	2x4	DRY	No.2	SPF	
ALL WEBS 2x3		DRY	No.2	SPF	
ALL GABLE WEBS 2x3		DRY	No.2	SPF	
DRY: SEASONED LUMBER.					
GABLE STUDS SPACED AT 2-0-0 OC.					

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMV+p	MT20	2.0	4.0	
3	TMW+w	MT20	2.0	4.0	
4	TTW+p	MT20	3.0	4.0	2.50 1.50
5	TMW+w	MT20	2.0	4.0	
6	TMV+p	MT20	2.0	4.0	
8	BMV1+p	MT20	2.0	4.0	
9, 10, 11					
9	BMW1+w	MT20	2.0	4.0	
12	BMV1+p	MT20	2.0	4.0	

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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: (3)

CHORDS				WEBS			
MEMB.		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MEMB.		MAX. FACTORED FORCE (LBS)
FR-TO			FROM TO	UNBRAC LENGTH	FR-TO		
12-2		-212 / 0	0.0	0.0 0.01 (1)	7.81	10-4	-141 / 0
1-2		0 / 34	-77.3	-77.3 0.11 (1)	10.00	11-3	-166 / 0
2-3		-21 / 0	-77.3	-77.3 0.05 (1)	6.25	9-5	-166 / 0
3-4		-14 / 0	-77.3	-77.3 0.04 (1)	6.25		
4-5		-14 / 0	-77.3	-77.3 0.04 (1)	6.25		
5-6		-21 / 0	-77.3	-77.3 0.05 (1)	6.25		
6-7		0 / 34	-77.3	-77.3 0.11 (1)	10.00		
8-6		-212 / 0	0.0	0.0 0.01 (1)	7.81		
12-11		0 / 15	-17.5	-17.5 0.02 (3)	10.00		
11-10		0 / 10	-17.5	-17.5 0.02 (3)	10.00		
10-9		0 / 10	-17.5	-17.5 0.02 (3)	10.00		
9-8		0 / 15	-17.5	-17.5 0.02 (3)	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=0.11 (6-7:1) , BC=0.02 (11-12:3) , WB=0.06 (4-10:1) , SSI=0.06 (6-7:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(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= 0.19 (4) (INPUT = 0.90)
JSI METAL= 0.06 (2) (INPUT = 1.00)



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

RECEIVED
TOWN OF MILTON
MAY 11, 2017
17-6230
BUILDING DIVISION

March 23, 2017

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
7	TMVW-p	MT20	5.0	10.0	Edge	
8	BMV1+t	MT20	6.0	8.0	Edge	0.50
9	BMWW-t	MT20	6.0	12.0	4.25	4.00
10	BMWW+t	MT20	4.0	8.0	4.00	1.50
11	BMWWW-t	MT20	8.0	8.0	4.25	3.50
12	BMWW-t	MT20	4.0	8.0	2.00	2.75
13	BMV1+p	MT20	3.0	4.0	2.25	1.50

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 42.3 lbs FACTORED DOWN AT 3-5-2, AND 42.3 lbs FACTORED DOWN AT 12-2-14 ON TOP CHORD, AND 370.5 lbs FACTORED DOWN AT 4-1-12, AND 370.5 lbs FACTORED DOWN AT 11-6-4, AND 3129.0 lbs FACTORED DOWN AT 6-0-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

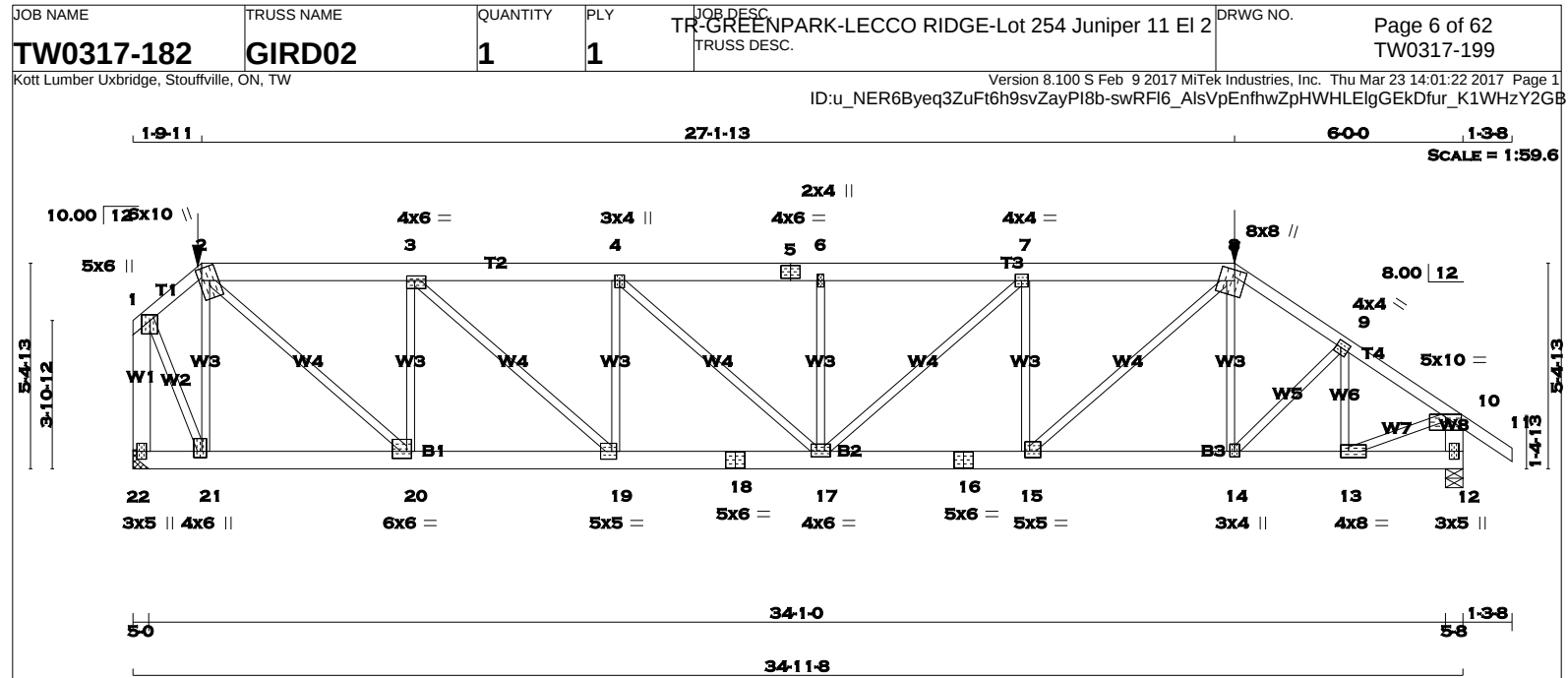
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (9) (INPUT = 0.90)
JSI METAL= 0.68 (6) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE 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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LUMBER N. L. G. A. RULES <table><tr><th>CHORDS</th><th>SIZE</th><th>LUMBER</th><th>DESCR.</th></tr><tr><td>1 - 2</td><td>2x4</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>2 - 5</td><td>2x6</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>5 - 8</td><td>2x6</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>8 - 11</td><td>2x4</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>22 - 1</td><td>2x6</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>12 - 10</td><td>2x6</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>22 - 18</td><td>2x6</td><td>DRY</td><td>2100F 1.8E SPF</td></tr><tr><td>18 - 16</td><td>2x6</td><td>DRY</td><td>2100F 1.8E SPF</td></tr><tr><td>16 - 12</td><td>2x6</td><td>DRY</td><td>2100F 1.8E SPF</td></tr><tr><td>ALL WEBS EXCEPT</td><td>2x3</td><td>DRY</td><td>No.2 SPF</td></tr></table> DRY: SEASONED LUMBER.							CHORDS	SIZE	LUMBER	DESCR.	1 - 2	2x4	DRY	No.2 SPF	2 - 5	2x6	DRY	No.2 SPF	5 - 8	2x6	DRY	No.2 SPF	8 - 11	2x4	DRY	No.2 SPF	22 - 1	2x6	DRY	No.2 SPF	12 - 10	2x6	DRY	No.2 SPF	22 - 18	2x6	DRY	2100F 1.8E SPF	18 - 16	2x6	DRY	2100F 1.8E SPF	16 - 12	2x6	DRY	2100F 1.8E SPF	ALL WEBS EXCEPT	2x3	DRY	No.2 SPF	DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><th></th><th>FACTORED GROSS REACTION</th><th>MAXIMUM FACTORED GROSS REACTION</th><th>INPUT BRG</th><th>REQRD BRG</th></tr><tr><th>JT</th><th>VERT</th><th>HORZ</th><th>DOWN</th><th>UPLIFT</th></tr><tr><td>22</td><td>3129</td><td>0</td><td>3129</td><td>0</td></tr><tr><td>12</td><td>3147</td><td>0</td><td>3147</td><td>0</td></tr></table> UNFACTORED REACTIONS <table><tr><th>JT</th><th>1ST LCASE</th><th>MAX./MIN.</th><th>SNOW</th><th>LIVE</th><th>PERM.LIVE</th><th>WIND</th><th>DEAD</th><th>SOIL</th></tr><tr><td>22</td><td>2196</td><td>1537 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>659 / 0</td><td>0 / 0</td></tr><tr><td>12</td><td>2208</td><td>1547 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>661 / 0</td><td>0 / 0</td></tr></table> BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 12 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.22 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: (3) <table><tr><th colspan="4">CHORDS</th><th colspan="4">WEBS</th></tr><tr><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>FACTORED VERT. LOAD (PLF)</th><th>MAX. LC1 (LC)</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>MAX. UNBRACED LENGTH</th><th>MAX. FACTORED FORCE (LBS)</th></tr><tr><td>FR-TO</td><td></td><td>FROM</td><td>TO</td><td>FR-TO</td><td></td><td></td><td></td></tr><tr><td>1-2</td><td>-1525 / 0</td><td>-77.3</td><td>-77.3 0.08 (1)</td><td>5.24</td><td>21-2</td><td>-1907 / 0</td><td>0.75 (1)</td></tr><tr><td>2-3</td><td>-3778 / 0</td><td>-145.8</td><td>-145.8 0.41 (1)</td><td>4.02</td><td>2-20</td><td>0 / 3558</td><td>0.88 (1)</td></tr><tr><td>3-4</td><td>-5245 / 0</td><td>-145.8</td><td>-145.8 0.51 (1)</td><td>3.38</td><td>20-3</td><td>-2243 / 0</td><td>0.88 (1)</td></tr><tr><td>4-5</td><td>-5662 / 0</td><td>-145.8</td><td>-145.8 0.46 (1)</td><td>3.33</td><td>3-19</td><td>0 / 1991</td><td>0.49 (1)</td></tr><tr><td>5-6</td><td>-5662 / 0</td><td>-145.8</td><td>-145.8 0.46 (1)</td><td>3.33</td><td>19-4</td><td>-1154 / 0</td><td>0.45 (1)</td></tr><tr><td>6-7</td><td>-5662 / 0</td><td>-145.8</td><td>-145.8 0.54 (1)</td><td>3.22</td><td>4-17</td><td>0 / 567</td><td>0.14 (1)</td></tr><tr><td>7-8</td><td>-5080 / 0</td><td>-145.8</td><td>-145.8 0.49 (1)</td><td>3.44</td><td>17-6</td><td>-757 / 0</td><td>0.30 (1)</td></tr><tr><td>8-9</td><td>-3960 / 0</td><td>-77.3</td><td>-77.3 0.31 (1)</td><td>3.28</td><td>17-7</td><td>0 / 791</td><td>0.20 (1)</td></tr><tr><td>9-10</td><td>-3454 / 0</td><td>-77.3</td><td>-77.3 0.27 (1)</td><td>3.54</td><td>15-7</td><td>-1447 / 0</td><td>0.57 (1)</td></tr><tr><td>10-11</td><td>0 / 29</td><td>-77.3</td><td>-77.3 0.11 (1)</td><td>10.00</td><td>15-8</td><td>0 / 2406</td><td>0.60 (1)</td></tr><tr><td>22-1</td><td>-3179 / 0</td><td>0.0</td><td>0.0 0.53 (1)</td><td>5.89</td><td>14-8</td><td>-190 / 79</td><td>0.07 (1)</td></tr><tr><td>12-10</td><td>-3055 / 0</td><td>0.0</td><td>0.0 0.22 (1)</td><td>5.99</td><td>14-9</td><td>0 / 596</td><td>0.15 (1)</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>13-9</td><td>-945 / 0</td><td>0.20 (1)</td></tr><tr><td>22-21</td><td>0 / 0</td><td>-33.0</td><td>-33.0 0.06 (1)</td><td>10.00</td><td>1-21</td><td>0 / 2443</td><td>0.60 (1)</td></tr><tr><td>21-20</td><td>0 / 1138</td><td>-33.0</td><td>-33.0 0.12 (1)</td><td>10.00</td><td>13-10</td><td>0 / 3028</td><td>0.75 (1)</td></tr><tr><td>20-19</td><td>0 / 3778</td><td>-33.0</td><td>-33.0 0.25 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>19-18</td><td>0 / 5245</td><td>-33.0</td><td>-33.0 0.33 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>18-17</td><td>0 / 5245</td><td>-33.0</td><td>-33.0 0.33 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>17-16</td><td>0 / 5080</td><td>-33.0</td><td>-33.0 0.32 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>16-15</td><td>0 / 5080</td><td>-33.0</td><td>-33.0 0.32 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>15-14</td><td>0 / 3296</td><td>-33.0</td><td>-33.0 0.22 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>14-13</td><td>0 / 2883</td><td>-33.0</td><td>-33.0 0.20 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>13-12</td><td>0 / 0</td><td>-33.0</td><td>-33.0 0.05 (1)</td><td>10.00</td><td></td><td></td><td></td></tr></table> FACTORED CONCENTRATED LOADS (LBS) <table><tr><th>JT</th><th>LOC.</th><th>LC1</th><th>MAX-</th><th>MAX+</th><th>FACE</th><th>DIR.</th><th>TYPE</th></tr><tr><td>2</td><td>1-9-11</td><td>-105</td><td>-105</td><td>---</td><td>FRONT</td><td>VERT</td><td>TOTAL</td></tr><tr><td>8</td><td>28-11-8</td><td>-348</td><td>-348</td><td>---</td><td>FRONT</td><td>VERT</td><td>TOTAL</td></tr></table>								FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG	JT	VERT	HORZ	DOWN	UPLIFT	22	3129	0	3129	0	12	3147	0	3147	0	JT	1ST LCASE	MAX./MIN.	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	22	2196	1537 / 0	0 / 0	0 / 0	0 / 0	0 / 0	659 / 0	0 / 0	12	2208	1547 / 0	0 / 0	0 / 0	0 / 0	0 / 0	661 / 0	0 / 0	CHORDS				WEBS				MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MAX. FACTORED FORCE (LBS)	FR-TO		FROM	TO	FR-TO				1-2	-1525 / 0	-77.3	-77.3 0.08 (1)	5.24	21-2	-1907 / 0	0.75 (1)	2-3	-3778 / 0	-145.8	-145.8 0.41 (1)	4.02	2-20	0 / 3558	0.88 (1)	3-4	-5245 / 0	-145.8	-145.8 0.51 (1)	3.38	20-3	-2243 / 0	0.88 (1)	4-5	-5662 / 0	-145.8	-145.8 0.46 (1)	3.33	3-19	0 / 1991	0.49 (1)	5-6	-5662 / 0	-145.8	-145.8 0.46 (1)	3.33	19-4	-1154 / 0	0.45 (1)	6-7	-5662 / 0	-145.8	-145.8 0.54 (1)	3.22	4-17	0 / 567	0.14 (1)	7-8	-5080 / 0	-145.8	-145.8 0.49 (1)	3.44	17-6	-757 / 0	0.30 (1)	8-9	-3960 / 0	-77.3	-77.3 0.31 (1)	3.28	17-7	0 / 791	0.20 (1)	9-10	-3454 / 0	-77.3	-77.3 0.27 (1)	3.54	15-7	-1447 / 0	0.57 (1)	10-11	0 / 29	-77.3	-77.3 0.11 (1)	10.00	15-8	0 / 2406	0.60 (1)	22-1	-3179 / 0	0.0	0.0 0.53 (1)	5.89	14-8	-190 / 79	0.07 (1)	12-10	-3055 / 0	0.0	0.0 0.22 (1)	5.99	14-9	0 / 596	0.15 (1)						13-9	-945 / 0	0.20 (1)	22-21	0 / 0	-33.0	-33.0 0.06 (1)	10.00	1-21	0 / 2443	0.60 (1)	21-20	0 / 1138	-33.0	-33.0 0.12 (1)	10.00	13-10	0 / 3028	0.75 (1)	20-19	0 / 3778	-33.0	-33.0 0.25 (1)	10.00				19-18	0 / 5245	-33.0	-33.0 0.33 (1)	10.00				18-17	0 / 5245	-33.0	-33.0 0.33 (1)	10.00				17-16	0 / 5080	-33.0	-33.0 0.32 (1)	10.00				16-15	0 / 5080	-33.0	-33.0 0.32 (1)	10.00				15-14	0 / 3296	-33.0	-33.0 0.22 (1)	10.00				14-13	0 / 2883	-33.0	-33.0 0.20 (1)	10.00				13-12	0 / 0	-33.0	-33.0 0.05 (1)	10.00				JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	2	1-9-11	-105	-105	---	FRONT	VERT	TOTAL	8	28-11-8	-348	-348	---	FRONT	VERT	TOTAL	DESIGN CRITERIA SPECIFIED LOADS: <table><tr><td>TOP CH.</td><td>LL</td><td>=</td><td>23.3</td><td>PSF</td></tr><tr><td></td><td>DL</td><td>=</td><td>3.0</td><td>PSF</td></tr><tr><td>BOT CH.</td><td>LL</td><td>=</td><td>0.0</td><td>PSF</td></tr><tr><td></td><td>DL</td><td>=</td><td>7.0</td><td>PSF</td></tr><tr><td>TOTAL LOAD</td><td></td><td>=</td><td>33.3</td><td>PSF</td></tr></table> SPACING = 24.0 IN./C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 8.00/12 GIRDER TYPE: CPrimeHip LEFT SETBACK = 1-9-11 RIGHT SETBACK = 6-0-0 END SETBACK = 6-0-0 END WALL WIDTH = 5-8 CORNER FRAMING TYPE: CONVENTIONAL END JACK TYPE: CONVENTIONAL APPLIED TO FRONT SIDE - ADDTL LOADS BASED ON 55 % OF GSL. THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (1.17") CALCULATED VERT. DEFL.(LL) = L/999 (0.25") ALLOWABLE DEFL.(TL)= L/360 (1.17") CALCULATED VERT. DEFL.(TL) = L/969 (0.43") CSI: TC=0.54 (6-7:1) , BC=0.33 (17-19:1) , WB=0.88 (2-20:1) , SSI=0.31 (2-3:1) 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 <table><tr><th>PLATE</th><th>GRIP(DRY) (PSI)</th><th>SHEAR (PLI)</th><th>SECTION (PLI)</th></tr><tr><td></td><td>MAX MIN</td><td>MAX MIN</td><td>MAX MIN</td></tr><tr><td>MT20</td><td>618 354</td><td>1667 822</td><td>2284 1656</td></tr></table> PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.90 (1) (INPUT = 0.90) JSI METAL= 0.88 (18) (INPUT = 1.00)							TOP CH.	LL	=	23.3	PSF		DL	=	3.0	PSF	BOT CH.	LL	=	0.0	PSF		DL	=	7.0	PSF	TOTAL LOAD		=	33.3	PSF	PLATE	GRIP(DRY) (PSI)	SHEAR (PLI)	SECTION (PLI)		MAX MIN	MAX MIN	MAX MIN	MT20	618 354	1667 822	2284 1656
CHORDS	SIZE	LUMBER	DESCR.																																																																																																																																																																																																																																																																																																																																																																																									
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22 - 18	2x6	DRY	2100F 1.8E SPF																																																																																																																																																																																																																																																																																																																																																																																									
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	MAX MIN	MAX MIN	MAX MIN																																																																																																																																																																																																																																																																																																																																																																																									
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March 23, 2017							RECEIVED TOWN OF MILTON MAY 11, 2017 17-6230 BUILDING DIVISION READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE 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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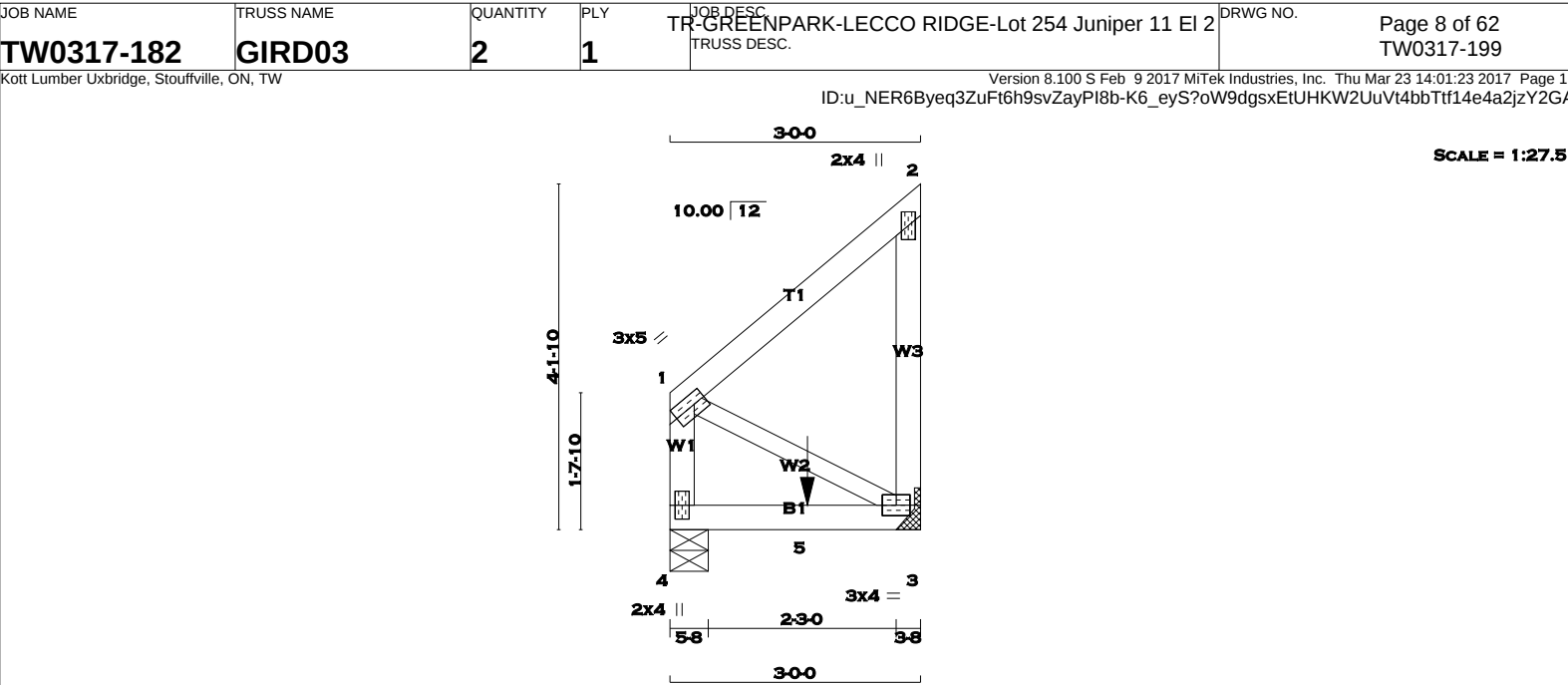
HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 348.1 lbs FACTORED DOWN AT 28-11-8, AND 104.8 lbs FACTORED DOWN AT 1-9-11 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



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

RECEIVED
TOWN OF MILTON
MAY 11, 2017
17-6230
BUILDING DIVISION



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

*** NON STANDARD GIRDER ***

ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014

- CSA 086-09

- TPIC 2011

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")

ALLOWABLE DEFL.(TL)= L/360 (0.19")

CALCULATED VERT. DEFL.(TL) = L/ 787 (0.05")

CSI: TC=0.13 (1-2:1) , BC=0.45 (3-4:1) , WB=0.00 (1-3:1) , SSI=0.20 (3-4:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00

COMP=1.00 SHEAR=1.00 TENS= 1.00

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.12 (3) (INPUT = 0.90)

JSI METAL= 0.03 (2) (INPUT = 1.00)

March 23, 2017

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

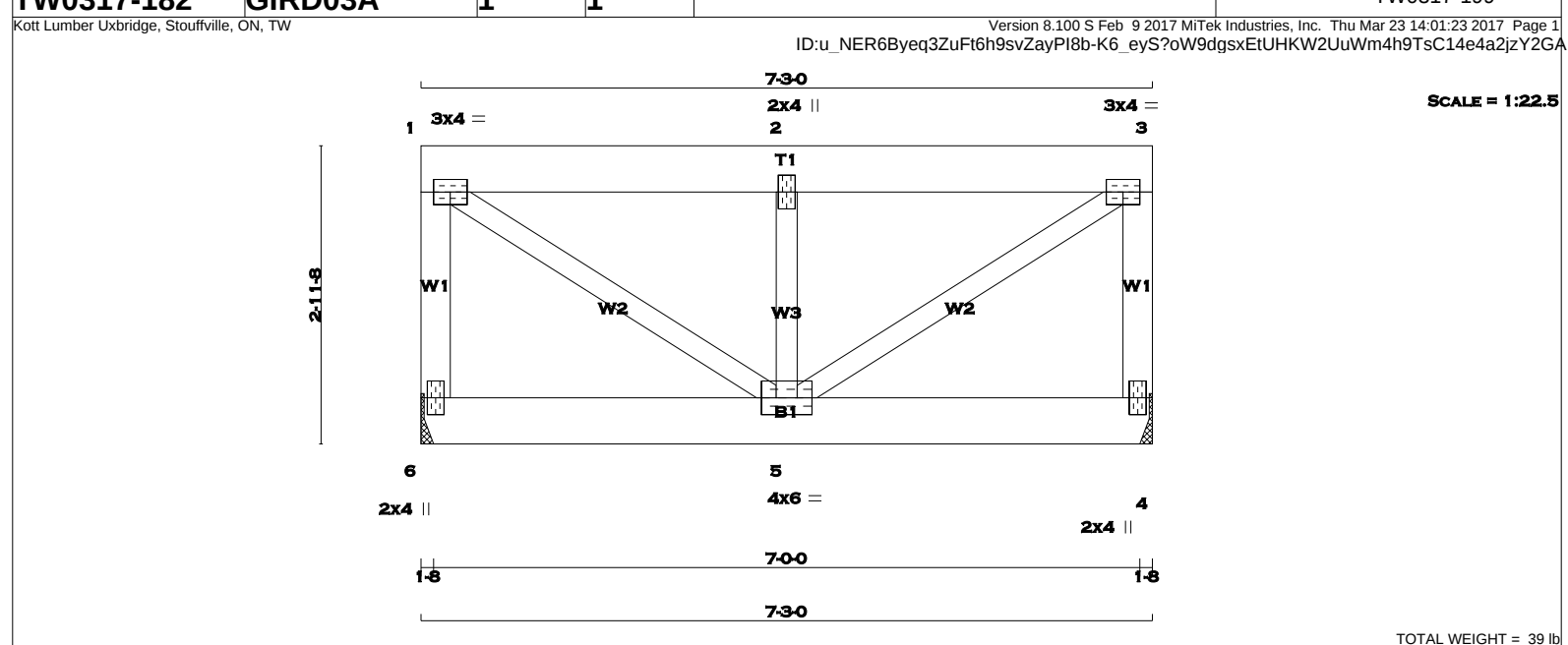
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LUMBER

N. L. G. A. RULES

CHORDS SIZE

LUMBER

DESCR.

6 - 1

2x4

DRY

No.2

SPF

1 - 3

2x6

DRY

No.2

SPF

4 - 3

2x4

DRY

No.2

SPF

6 - 4

2x6

DRY

No.2

SPF

ALL WEBS 2x3 DRY:

2x3

DRY

No.2

SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMW-t	MT20	3.0	4.0		
2	TMW+w	MT20	2.0	4.0		
3	TMW-t	MT20	3.0	4.0		
4	BMV1+p	MT20	2.0	4.0		
5	BMVWW-t	MT20	4.0	6.0		
6	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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		
6	376	0	376	0	0	HANGER BY OTHERS
4	376	0	376	0	0	MIN. SEAT SIZE: 1-8 HANGER BY OTHERS MIN. SEAT SIZE: 1-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		LIVE	PERM.LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	DOWN	HORZ					
6	264	185 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	79 / 0	0 / 0
4	264	185 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	79 / 0	0 / 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO	FR-TO
6-1	-340 / 0	0.0 0.0 0.05 (1)	7.81 1-5 0 / 376
1-2	-310 / 0	-84.6 -84.6 0.07 (1)	6.25 5-2 -361 / 0
2-3	-310 / 0	-84.6 -84.6 0.07 (1)	6.25 5-3 0 / 376
4-3	-340 / 0	0.0 0.0 0.05 (1)	7.81
6-5	0 / 0	-19.1 -19.1 0.03 (3)	10.00
5-4	0 / 0	-19.1 -19.1 0.03 (3)	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 8.00/12

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 0-0
END SETBACK = 2-10-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDT'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

(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 (0.24")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.24")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.07 (1-2:1) , BC=0.03 (5-6:3) , WB=0.09 (3-5:1) , SSI=0.12 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.56 (1) (INPUT = 0.90)
JSI METAL= 0.12 (3) (INPUT = 1.00)

March 23, 2017

KOTT

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

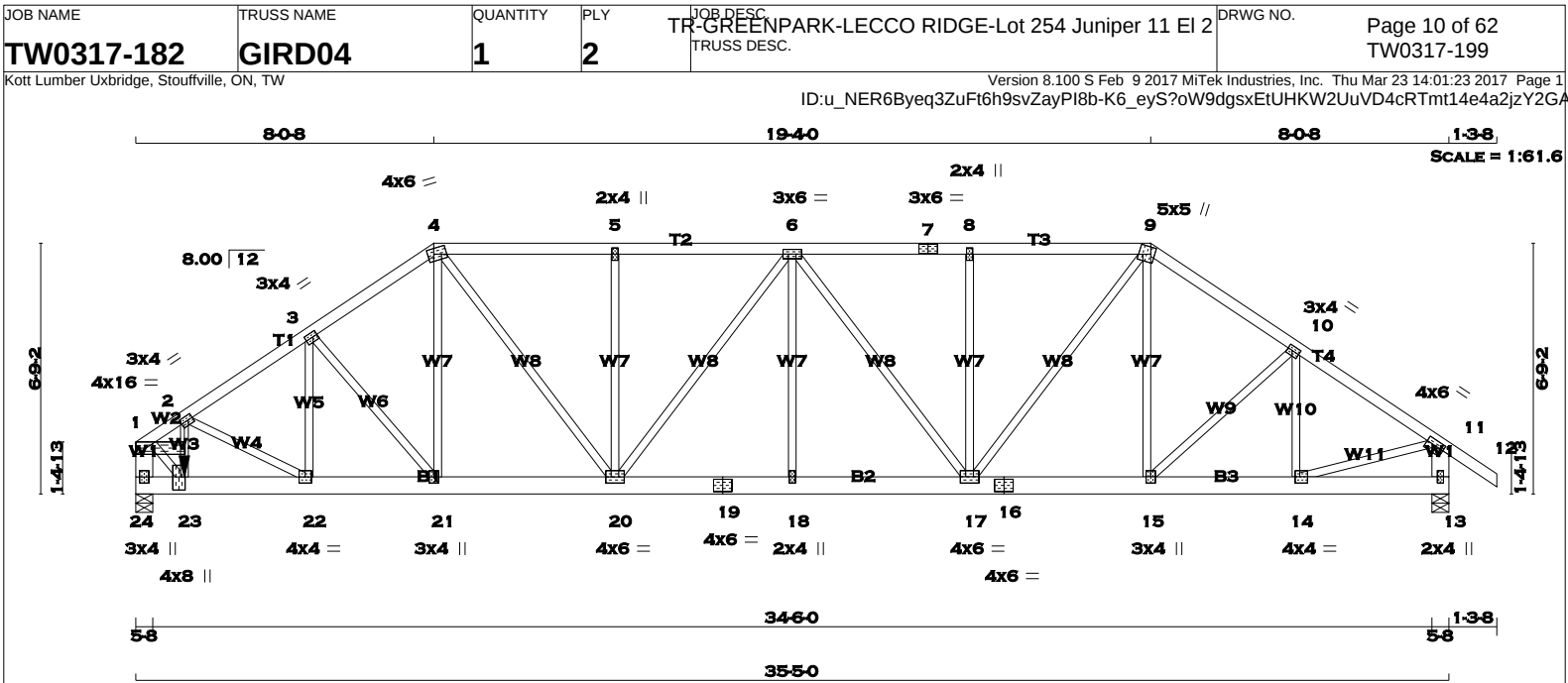
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LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2
4 - 7	2x4	DRY	No.2
7 - 9	2x4	DRY	No.2
9 - 12	2x4	DRY	No.2
24 - 1	2x6	DRY	No.2
13 - 11	2x6	DRY	No.2
24 - 19	2x6	DRY	No.2
19 - 16	2x6	DRY	No.2
16 - 13	2x6	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
1-4	1	12
4-7	1	12
7-9	1	12
9-12	1	12
24-1	2	12
13-11	2	12
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
24-19	2	12
19-16	2	12
16-13	2	12
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	1	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.

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.



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	JT	HORZ	JT	DOWN	JT	IN-SX
24	4896	0	4896	0	0	5-8	5-8
13	1910	0	1910	0	0	5-8	5-8
UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
24	3436	2404 / 0	0 / 0	0 / 0	0 / 0	1032 / 0	0 / 0
13	1338	949 / 0	0 / 0	0 / 0	0 / 0	389 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 24, 13

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.79 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: (3)			
CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO	FROM	FR-TO	FROM
1-2	-3861 / 0	23-2	0 / 592
2-3	-3118 / 0	2-22	-687 / 0
3-4	-2624 / 0	5-53	0 / 492
4-5	-2622 / 0	5-44	-687 / 0
5-6	-2622 / 0	5-44	0 / 608
6-7	-2436 / 0	5-60	0 / 734
7-8	-2436 / 0	5-60	-414 / 0
8-9	-2435 / 0	5-60	-118 / 0
9-10	-2189 / 0	5-88	0 / 92
10-11	-2138 / 0	5-93	-430 / 0
11-12	0 / 29	10-10	-415 / 0
24-1	-4634 / 0	6-71	0 / 1039
13-11	-1862 / 0	15-9	0 / 108
		15-10	0 / 10
24-23	0 / 0	14-10	-398 / 0
23-22	0 / 3209	1-23	0 / 4029
22-21	0 / 2608	14-11	0 / 1846
21-20	0 / 2176		
20-19	0 / 2693		
19-18	0 / 2693		
18-17	0 / 2693		
17-16	0 / 1803		
16-15	0 / 1803		
15-14	0 / 1795		
14-13	0 / 0		

FACTORED CONCENTRATED LOADS (LBS)					
JT	LOC.	LC1	MAX-	MAX+	FACE
23	1-3-12	-3340	-3340	---	FRONT

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 8.00/12

*** NON STANDARD GIRDER ***

ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (1.18")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (1.18")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.17 (4-5:1), BC=0.33 (22-23:1), WB=0.50 (1-23:1), SSI=0.10 (8-9:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES					
PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (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= 0.89 (10) (INPUT = 0.90)
JSI METAL= 0.52 (23) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE 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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17-6230
BUILDING DIVISION

March 23, 2017

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-p	MT20	4.0	16.0	0.50	Edge
2, 3, 10						
2	TMWW-t	MT20	3.0	4.0	1.50	1.50
4	TTWW-m	MT20	4.0	6.0	1.75	2.00
5	TMW+w	MT20	2.0	4.0		
6	TMWWWW-t	MT20	3.0	6.0		
7	TS-t	MT20	3.0	6.0		
8	TMW+w	MT20	2.0	4.0		
9	TTWW+m	MT20	5.0	5.0	2.25	1.25
11	TMVW-t	MT20	4.0	6.0	1.75	1.75
13	BMV1+p	MT20	2.0	4.0		
14	BMWW-t	MT20	4.0	4.0	2.00	1.50
15	BMWW+t	MT20	3.0	4.0		
16	BS-t	MT20	4.0	6.0		
17	BMWWWW-t	MT20	4.0	6.0		
18	BMW+w	MT20	2.0	4.0		
19	BS-t	MT20	4.0	6.0		
20	BMWWWW-t	MT20	4.0	6.0		
21	BMWW+t	MT20	3.0	4.0		
22	BMWW-t	MT20	4.0	4.0		
23	BMWW+t	MT20	4.0	8.0	4.25	1.50
24	BMV1+p	MT20	3.0	4.0		

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

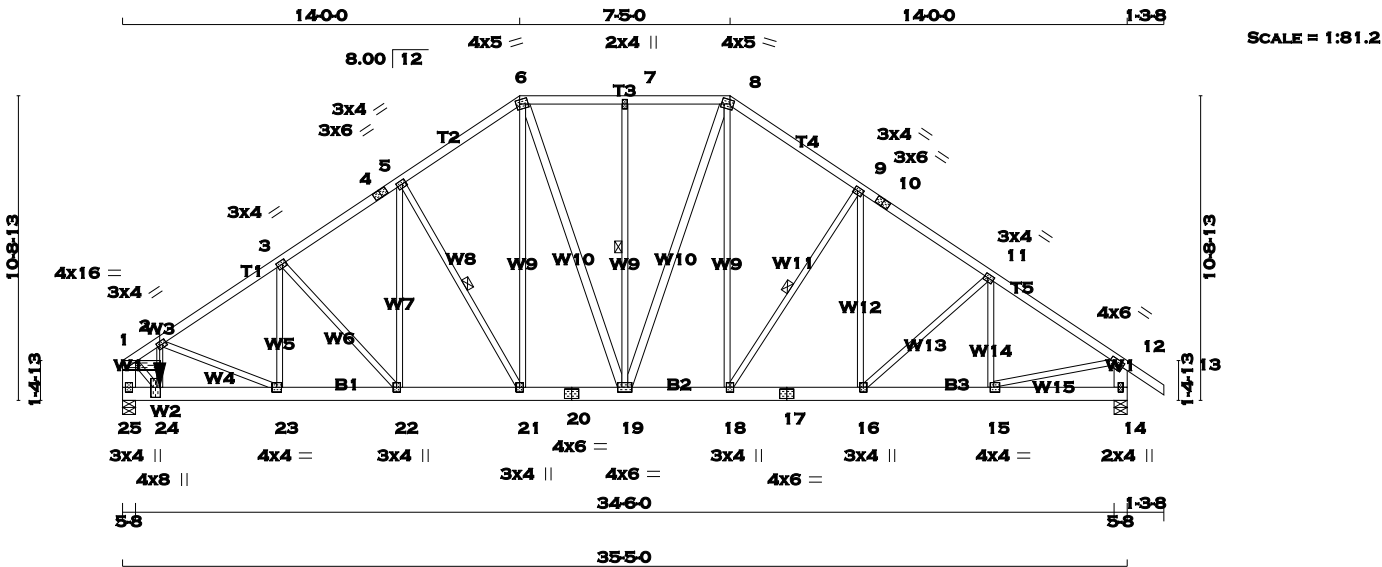
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 3339.9 lbs FACTORED DOWN AT 1-3-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE 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 = 2 X 215 = 429 lb [M]

LUMBER			N. L. G. A. RULES		LUMBER	DESCR.
CHORDS	SIZE					
1 - 4	2x4	DRY	No.2	SPF	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF		
6 - 8	2x4	DRY	No.2	SPF		
8 - 10	2x4	DRY	No.2	SPF		
10 - 13	2x4	DRY	No.2	SPF		
25 - 1	2x6	DRY	No.2	SPF		
14 - 12	2x6	DRY	No.2	SPF		
25 - 20	2x6	DRY	No.2	SPF		
20 - 17	2x6	DRY	No.2	SPF		
17 - 14	2x6	DRY	No.2	SPF		
ALL WEBS	2x3	DRY	No.2	SPF		
EXCEPT						
6 - 19	2x4	DRY	No.2	SPF		
19 - 8	2x4	DRY	No.2	SPF		

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
1-4	12	TOP
4-6	12	TOP
6-8	12	TOP
8-10	12	TOP
10-13	12	TOP
25-1	12	TOP
14-12	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
25-20	12	SIDE(0.0)
20-17	12	TOP
17-14	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	
2x4	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	UPLIFT	IN-SX	BRG	IN-SX
25	4896	0	4896	0	0	5-8	5-8	5-8	5-8
14	1910	0	1910	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													
25	3436	2404	0	0/0	0/0	0/0	0/0	1032	0	0/0	1032	0	0/0	0/0	0/0
14	1338	949	0	0/0	0/0	0/0	0/0	389	0	0/0	389	0	0/0	0/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 25, 14

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.76 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-21. DBS = 18-0-0 . CBF = 89 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-19, 9-18. DBS = 20-0-0 . CBF = 55 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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

C H O R D S		FACTORED		W E B S		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FORCE (LBS)	MAX (CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	-3885 / 0	-77.3 -77.3	0.08 (1)	4.76	24-2	0 / 607	0.08 (1)
2-3	-2992 / 0	-77.3 -77.3	0.13 (1)	5.22	2-23	-817 / 0	0.15 (1)
3-4	-2424 / 0	-77.3 -77.3	0.13 (1)	5.66	23-3	0 / 509	0.06 (1)
4-5	-2424 / 0	-77.3 -77.3	0.13 (1)	5.66	3-22	-716 / 0	0.25 (1)
5-6	-1973 / 0	-77.3 -77.3	0.12 (1)	6.13	22-5	0 / 578	0.07 (1)
6-7	-1663 / 0	-77.3 -77.3	0.10 (1)	6.25	5-21	-789 / 0	0.21 (1)
7-8	-1663 / 0	-77.3 -77.3	0.10 (1)	6.25	21-6	0 / 753	0.09 (1)
8-9	-1872 / 0	-77.3 -77.3	0.14 (1)	6.23	6-19	0 / 91	0.01 (1)
9-10	-2139 / 0	-77.3 -77.3	0.15 (1)	5.91	19-7	-337 / 0	0.13 (1)
10-11	-2139 / 0	-77.3 -77.3	0.15 (1)	5.91	19-8	0 / 353	0.03 (1)
11-12	-2187 / 0	-77.3 -77.3	0.15 (1)	5.86	18-8	0 / 436	0.05 (1)
12-13	0 / 29	-77.3 -77.3	0.06 (1)	10.00	18-9	-441 / 0	0.11 (1)
25-1	-4652 / 0	0.0 0.0	0.17 (1)	6.70	16-9	0 / 137	0.02 (3)
14-12	-1863 / 0	0.0 0.0	0.07 (1)	7.81	16-11	-76 / 0	0.03 (1)
					15-11	-309 / 0	0.05 (1)
25-24	0 / 0	-17.5 -17.5	0.11 (1)	10.00	1-24	0 / 4075	0.50 (1)
24-23	0 / 3245	-17.5 -17.5	0.32 (1)	10.00	15-12	0 / 1874	0.23 (1)
23-22	0 / 2498	-17.5 -17.5	0.18 (1)	10.00			
22-21	0 / 2019	-17.5 -17.5	0.15 (1)	10.00			
21-20	0 / 1632	-17.5 -17.5	0.12 (1)	10.00			
20-19	0 / 1632	-17.5 -17.5	0.12 (1)	10.00			
19-18	0 / 1544	-17.5 -17.5	0.12 (1)	10.00			
18-17	0 / 1779	-17.5 -17.5	0.13 (1)	10.00			
17-16	0 / 1779	-17.5 -17.5	0.13 (1)	10.00			
16-15	0 / 1835	-17.5 -17.5	0.14 (1)	10.00			
15-14	0 / 0	-17.5 -17.5	0.03 (3)	10.00			

FACTORED CONCENTRATED LOADS (LBS)		FACE		DIR.		TYPE	
JT	LOC.	LC1	MAX- MAX+	FRONT	VERT		TOTAL
24	1-3-12	-3340	-3340	---			

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 8.00/12

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (1.18")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (1.18")
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.17 (1-25:1) , BC=0.32 (23-24:1) , WB=0.50 (1-24:1) , SSI=0.08 (24-25:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (24) (INPUT = 0.90)
JSI METAL= 0.53 (24) (INPUT = 1.00)



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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-p	MT20	4.0	16.0	0.50	Edge
2, 3, 5, 9, 11						
2	TMWW-t	MT20	3.0	4.0	1.50	1.50
4	TS-t	MT20	3.0	6.0		
6	TTWW-m	MT20	4.0	5.0	1.75	1.50
7	TMW+w	MT20	2.0	4.0		
8	TTWW-m	MT20	4.0	5.0	1.75	1.50
10	TS-t	MT20	3.0	6.0		
12	TMVW-t	MT20	4.0	6.0	1.75	1.75
14	BMV1+p	MT20	2.0	4.0		
15	BMWW-t	MT20	4.0	4.0	2.00	1.50
16, 18, 21, 22						
16	BMWW+t	MT20	3.0	4.0		
17	BS-t	MT20	4.0	6.0		
19	BMWWWW-t	MT20	4.0	6.0		
20	BS-t	MT20	4.0	6.0		
23	BMWW-t	MT20	4.0	4.0		
24	BMWW+t	MT20	4.0	8.0	4.25	1.50
25	BMV1+p	MT20	3.0	4.0		

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

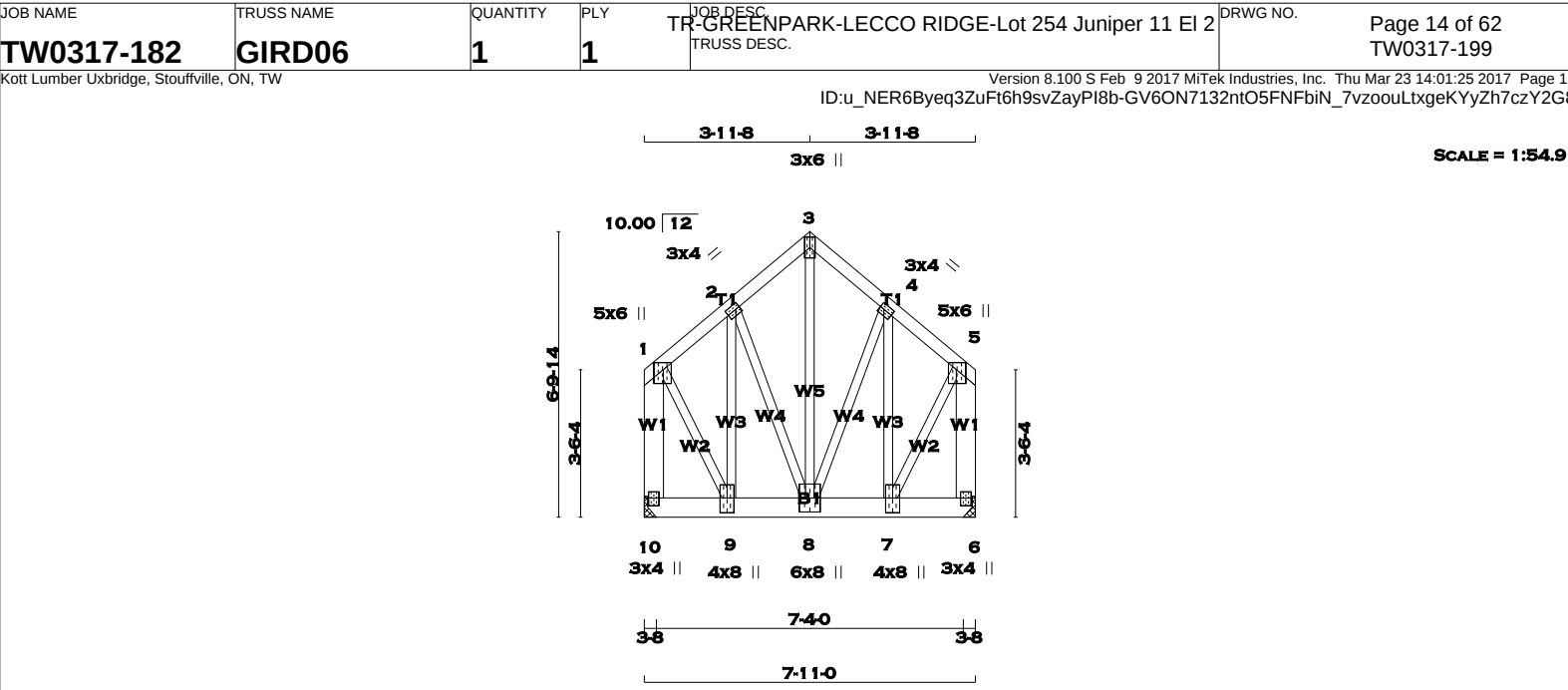
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 3339.9 lbs FACTORED DOWN AT 1-3-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE 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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LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER DESCR.

1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
10 - 1	2x6	DRY	No.2	SPF
6 - 5	2x6	DRY	No.2	SPF
10 - 6	2x6	DRY	2100F 1.8E	SPF

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW+p	MT20	5.0	6.0	2.00	2.25
2	TMVW-t	MT20	3.0	4.0	1.50	1.25
3	TTW+p	MT20	3.0	6.0		
4	TMVW-t	MT20	3.0	4.0	1.50	1.25
5	TMVW+p	MT20	5.0	6.0	2.00	2.25
6	BMV1+p	MT20	3.0	4.0	2.25	1.50
7	BMVW+t	MT20	4.0	8.0	4.25	2.00
8	BMVW+t	MT20	4.0	8.0		
9	BMVW+t	MT20	4.0	8.0	4.25	2.00
10	BMV1+p	MT20	3.0	4.0	2.25	1.50

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.



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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
10	3340	0	3340	0
6	3340	0	3340	0

MIN. SEAT SIZE: 3-8
HANGER BY OTHERS

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS
	COMBINED	SNOW
10	2344	1640 / 0
6	2344	1640 / 0

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.36 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: (3)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	
FR-TO		FROM	TO	FR-TO			
1-2	-1417 / 0	-77.3	-77.3 0.10 (1)	5.36	8-3	0 / 1594	0.39 (1)
2-3	-1365 / 0	-77.3	-77.3 0.09 (1)	5.45	8-4	-87 / 0	0.04 (1)
3-4	-1365 / 0	-77.3	-77.3 0.09 (1)	5.45	7-4	-30 / 19	0.01 (1)
4-5	-1417 / 0	-77.3	-77.3 0.10 (1)	5.36	2-8	-87 / 0	0.04 (1)
10-1	-2607 / 0	0.0	0.0 0.36 (1)	6.39	9-2	-30 / 19	0.01 (1)
6-5	-2607 / 0	0.0	0.0 0.36 (1)	6.39	1-9	0 / 1946	0.48 (1)
					7-5	0 / 1946	0.48 (1)
10-9	0 / 0	-766.4	-766.4 0.14 (1)	10.00			
9-8	0 / 1085	-766.4	-766.4 0.14 (1)	10.00			
8-7	0 / 1085	-766.4	-766.4 0.14 (1)	10.00			
7-6	0 / 0	-766.4	-766.4 0.14 (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

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 34-0-8
END DISTANCE = 7-11-0
END SPAN CARRIED = 34-0-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC2010

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 (0.26")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.26")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.36 (5-6:1), BC=0.14 (9-10:1), WB=0.48 (5-7:1), SSI=0.57 (9-10:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

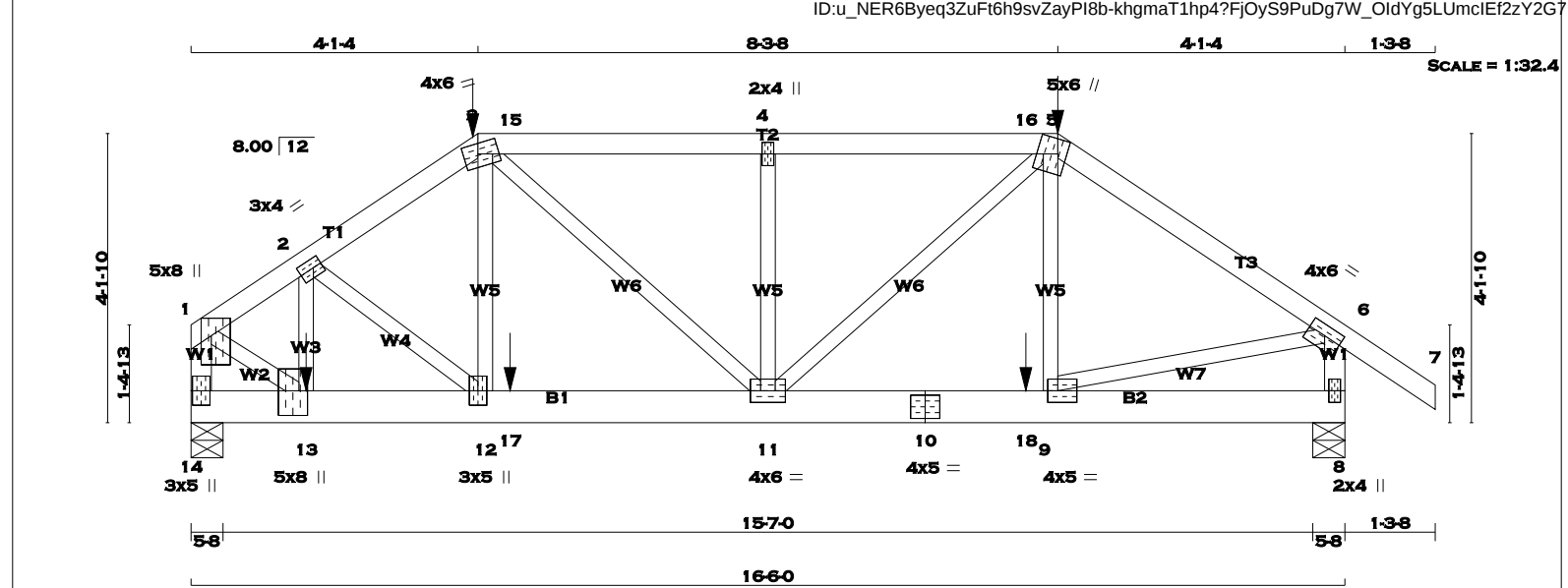
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (7) (INPUT = 0.90)
JSI METAL= 0.35 (9) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE 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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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

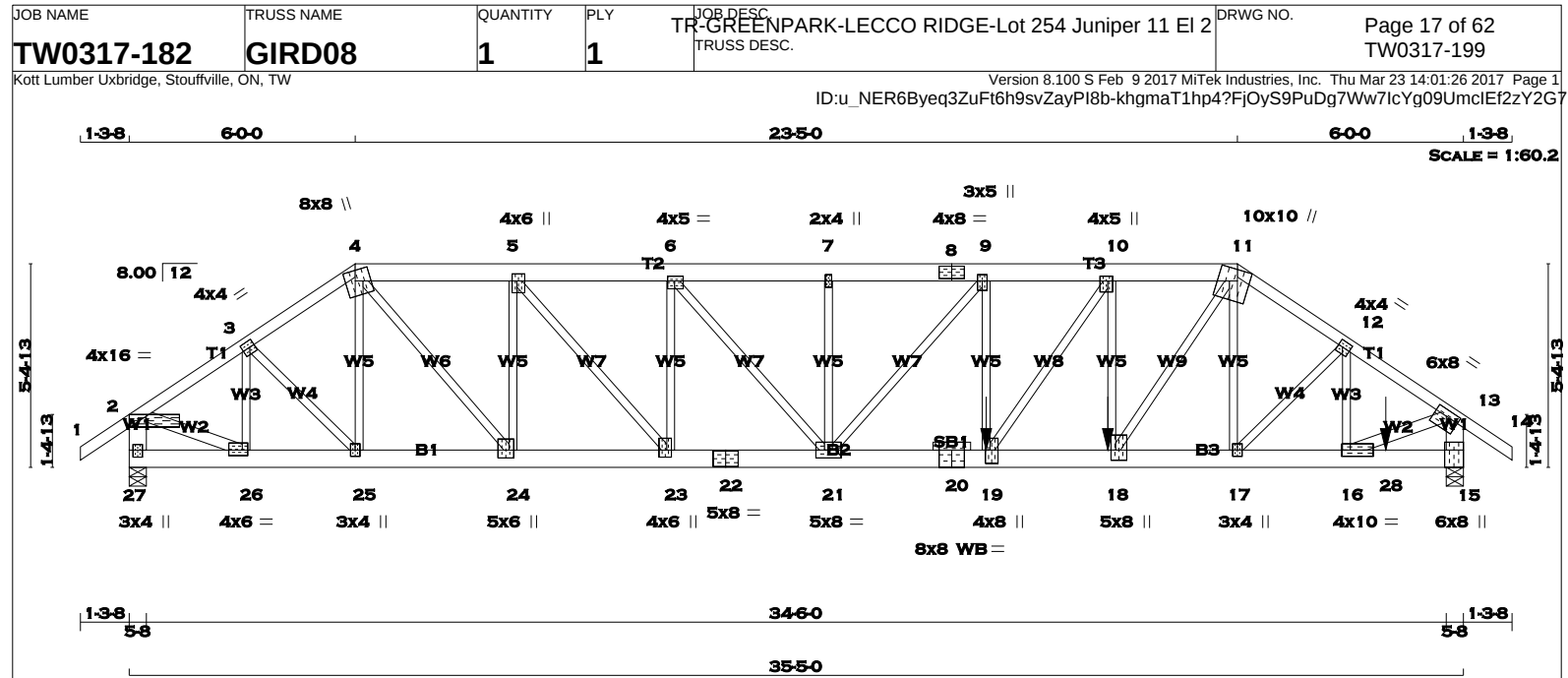
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (1) (INPUT = 0.90)
JSI METAL= 0.52 (13) (INPUT = 1.00)



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LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 4 2x4 DRY No.2 SPF 4 - 8 2x6 DRY No.2 SPF 8 - 11 2x6 DRY No.2 SPF 11 - 14 2x4 DRY No.2 SPF 27 - 2 2x6 DRY No.2 SPF 15 - 13 2x6 DRY No.2 SPF 27 - 22 2x6 DRY 2100F 1.8E SPF 22 - 20 2x6 DRY 2100F 1.8E SPF 20 - 15 2x6 DRY 2100F 1.8E SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT 2 - 26 2x4 DRY No.2 SPF 16 - 13 2x4 DRY No.2 SPF DRY: SEASONED LUMBER.			DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED MAXIMUM FACTORED INPUT REQD GROSS REACTION GROSS REACTION BRG BRG DOWN DOWN UPLIFT IN-SX IN-SX JT 27 2896 0 2896 0 0 5-8 5-8 15 4622 0 4622 0 0 5-8 5-8 UNFACTORED REACTIONS 1ST LCASE MAX/MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 27 2030 1433 / 0 0 / 0 0 / 0 596 / 0 0 / 0 15 3241 2281 / 0 0 / 0 0 / 0 960 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 27, 15 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.60 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: (3) CHORDS WEBS MAX. FACTORED MAX. FACTORED MAX. FACTORED MEMB. FORCE VERT. LOAD LC1 MAX. MEMB. FORCE VERT. LOAD LC1 MAX. (LBS) (PLF) CSI (LC) UNBRAC (LBS) CSI (LC) FR-TO FROM TO LENGTH FR-TO 1-2 0 / 29 -77.3 -77.3 0.11 (1) 10.00 26-3 -899 / 0 0.19 (1) 2-3 -3188 / 0 -77.3 -77.3 0.25 (1) 3.70 3-25 0 / 552 0.14 (1) 3-4 -3660 / 0 -77.3 -77.3 0.29 (1) 3.42 25-4 -243 / 0 0.10 (1) 4-5 -4769 / 0 -77.3 -77.3 0.25 (1) 3.81 4-24 0 / 2678 0.66 (1) 5-6 -6129 / 0 -77.3 -77.3 0.33 (1) 3.33 24-5 -1993 / 0 0.78 (1) 6-7 -7174 / 0 -77.3 -77.3 0.43 (1) 3.00 5-23 0 / 2104 0.52 (1) 7-8 -7174 / 0 -77.3 -77.3 0.46 (1) 2.97 23-6 -1542 / 0 0.61 (1) 8-9 -7174 / 0 -77.3 -77.3 0.46 (1) 2.97 6-21 0 / 1617 0.40 (1) 9-10 -7827 / 0 -77.3 -77.3 0.51 (1) 2.78 21-7 -346 / 0 0.14 (1) 10-11 -6602 / 0 -77.3 -77.3 0.39 (1) 3.14 21-9 -1011 / 0 0.73 (1) 11-12 -5458 / 0 -77.3 -77.3 0.50 (1) 2.60 19-9 0 / 482 0.12 (1) 12-13 -5029 / 0 -77.3 -77.3 0.47 (1) 2.76 19-10 0 / 2192 0.54 (1) 13-14 0 / 29 -77.3 -77.3 0.11 (1) 10.00 18-10 -2089 / 0 0.82 (1) 27-2 -2834 / 0 0.0 0.0 0.20 (1) 6.18 18-11 0 / 3688 0.91 (1) 15-13 -4351 / 0 0.0 0.0 0.31 (1) 5.11 17-11 -262 / 0 0.10 (1) 17-12 0 / 516 0.13 (1) 16-12 -833 / 0 0.17 (1) 2-26 0 / 2796 0.49 (1) 16-13 0 / 4403 0.78 (1) 27-26 0 / 0 -17.5 -17.5 0.04 (1) 10.00 26-25 0 / 2662 -17.5 -17.5 0.18 (1) 10.00 25-24 0 / 3043 -17.5 -17.5 0.19 (1) 10.00 24-23 0 / 4769 -17.5 -17.5 0.28 (1) 10.00 23-22 0 / 6129 -17.5 -17.5 0.35 (1) 10.00 22-21 0 / 6129 -17.5 -17.5 0.35 (1) 10.00 21-20 0 / 7827 -17.5 -17.5 0.50 (1) 10.00 20-19 0 / 7827 -17.5 -17.5 0.50 (1) 10.00 19-18 0 / 6602 -101.5 -101.5 0.45 (1) 10.00 18-17 0 / 4548 -17.5 -17.5 0.27 (1) 10.00 17-16 0 / 4192 -17.5 -17.5 0.26 (1) 10.00 16-28 0 / 0 -17.5 -17.5 0.21 (1) 10.00 28-15 0 / 0 -17.5 -17.5 0.21 (1) 10.00 FACTORED CONCENTRATED LOADS (LBS) JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE 18 25-11-12 -732 -732 --- FRONT VERT TOTAL 19 22-9-0 -2201 -2201 --- FRONT VERT TOTAL 28 2-4 -732 -732 --- 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 8.00/12 GIRDER TYPE: CStdGirder START DISTANCE = 22-9-0 START SPAN CARRIED = 6-0-0 END DISTANCE = 25-11-12 END SPAN CARRIED = 6-0-0 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, 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 (1.18") CALCULATED VERT. DEFL.(LL) = L/999 (0.29") ALLOWABLE DEFL.(TL)= L/360 (1.18") CALCULATED VERT. DEFL.(TL) = L/827 (0.51") CSI: TC=0.51 (9-10:1), BC=0.50 (19-21:1), WB=0.91 (11-18:1), SSI=0.34 (15-16:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT. NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.90 (21) (INPUT = 0.90) JSI METAL= 0.97 (22) (INPUT = 1.00)		
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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC. TRUSS DESC.	DRWG NO.
TW0317-182	GIRD08	1	1	TR- GREENPARK-LECCO RIDGE-Lot 254 Juniper 11 EI 2	Page 18 of 62 TW0317-199

Kott Lumber Uxbridge, Stouffville, ON, TW

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Thu Mar 23 14:01:26 2017 Page 2

ID:u_NER6Byeq3ZuFt6h9svZayPI8b-khgmaT1hp4?FjOyS9PuDg7Ww7IcYg09UmclEf2zY2G7

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

WB - INDICATES BLOCKING REQUIRED

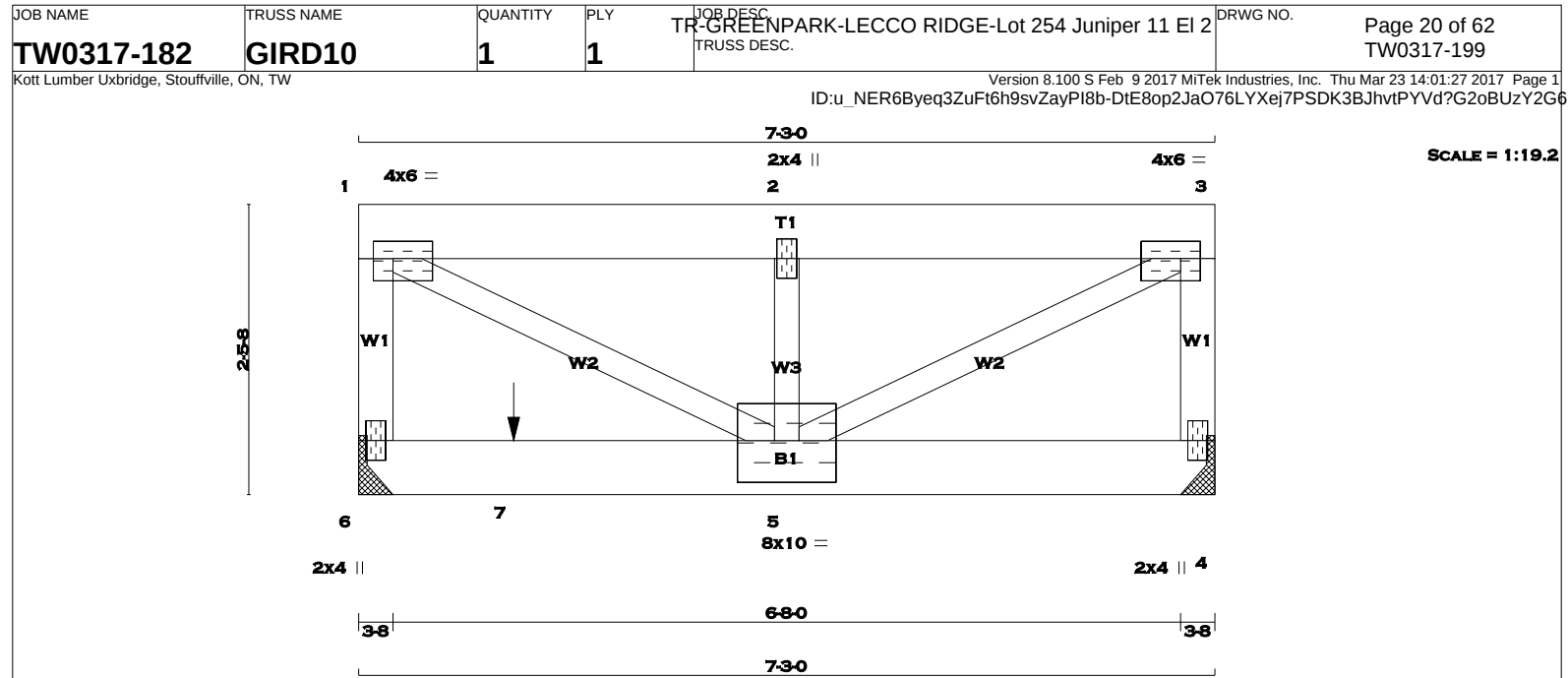
HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 2201.4 lbs FACTORED DOWN AT 22-9-0, AND 732.4 lbs FACTORED DOWN AT 25-11-12, AND 732.4 lbs FACTORED DOWN AT 33-4-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



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LUMBER N. L. G. A. RULES CHORDS SIZE 6 - 1 2x4 DRY No.2 1 - 3 2x6 DRY No.2 4 - 3 2x4 DRY No.2 6 - 4 2x6 DRY 2100F 1.8E ALL WEBS 2x3 DRY No.2 DRY: SEASONED LUMBER.				DESCR. SPF SPF SPF SPF SPF			
PLATES (table is in inches) JT TYPE PLATES W LEN Y X 1 TMW-t MT20 4.0 6.0 1.75 2.00 2 TMW+w MT20 2.0 4.0 3 TMW-t MT20 4.0 6.0 1.75 2.00 4 BMV1+p MT20 2.0 4.0 5 BMWVW-t MT20 8.0 10.0 4.25 5.00 6 BMV1+p MT20 2.0 4.0				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 8.00/12 GIRDER TYPE: CStdGirder START DISTANCE = 1-3-12 START SPAN CARRIED = 14-4-0 END DISTANCE = 7-3-0 END SPAN CARRIED = 14-4-0 END WALL WIDTH = 0-0 APPLIED TO BACK SIDE OF BOTTOM CHORD. - ADDT'L LOADS BASED ON 55 % OF GSL. GIRDER TYPE: CPrimeHip SIDE SETBACK = 0-0 END SETBACK = 2-10-0 END WALL WIDTH = 5-8 CORNER FRAMING TYPE: CONVENTIONAL END JACK TYPE: CONVENTIONAL APPLIED TO FRONT SIDE - ADDT'L LOADS BASED ON 55 % OF GSL. *** NON STANDARD GIRDER *** ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES. THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.24") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05") ALLOWABLE DEFL.(TL)= L/360 (0.24") CALCULATED VERT. DEFL.(TL) = L/ 958 (0.09") CSI: TC=0.17 (1-2:1) , BC=0.62 (5-6:1) , WB=0.59 (3-5:1) , SSI=0.86 (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 .			
HANGERS NOTES 1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 1741.2 lbs FACTORED DOWN AT 1-3-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION JT VERT HORZ 6 2513 0 4 1717 0 MAXIMUM FACTORED GROSS REACTION DOWN HORZ UPLIFT 6 2513 0 0 4 1717 0 0 INPUT BRG IN-SX HANGER BY OTHERS MIN. SEAT SIZE: 3-8 HANGER BY OTHERS MIN. SEAT SIZE: 3-8 REQRD BRG IN-SX UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 6 1764 1234 / 0 0 / 0 0 / 0 530 / 0 0 / 0 4 1205 843 / 0 0 / 0 0 / 0 362 / 0 0 / 0 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.43 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (3) CHORDS MEMB. MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) MAX. LC1 (LC) UNBRAC LENGTH FR-TO FROM TO 6-1 -1324 / 0 0.0 0.0 0.16 (1) 7.00 1-2 -2074 / 0 -84.6 -84.6 0.17 (1) 5.43 2-3 -2074 / 0 -84.6 -84.6 0.17 (1) 5.43 4-3 -1324 / 0 0.0 0.0 0.16 (1) 7.00 WEBS MEMB. MAX. FACTORED FORCE (LBS) MAX. LC1 (LC) UNBRAC LENGTH FR-TO FROM TO 1-5 0 / 2369 0.59 (1) 7.00 5-2 -252 / 0 0.04 (1) 5.43 5-3 0 / 2369 0.59 (1) 7.00 6-7 0 / 0 -19.1 -19.1 0.62 (1) 10.00 7-5 0 / 0 -311.6 -311.6 0.62 (1) 10.00 5-4 0 / 0 -311.6 -311.6 0.25 (1) 10.00 FACTORED CONCENTRATED LOADS (LBS) JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE 7 1-3-12 -1741 -1741 --- FRONT VERT TOTAL			
				 READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.			
				CONTINUED ON PAGE 2			

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

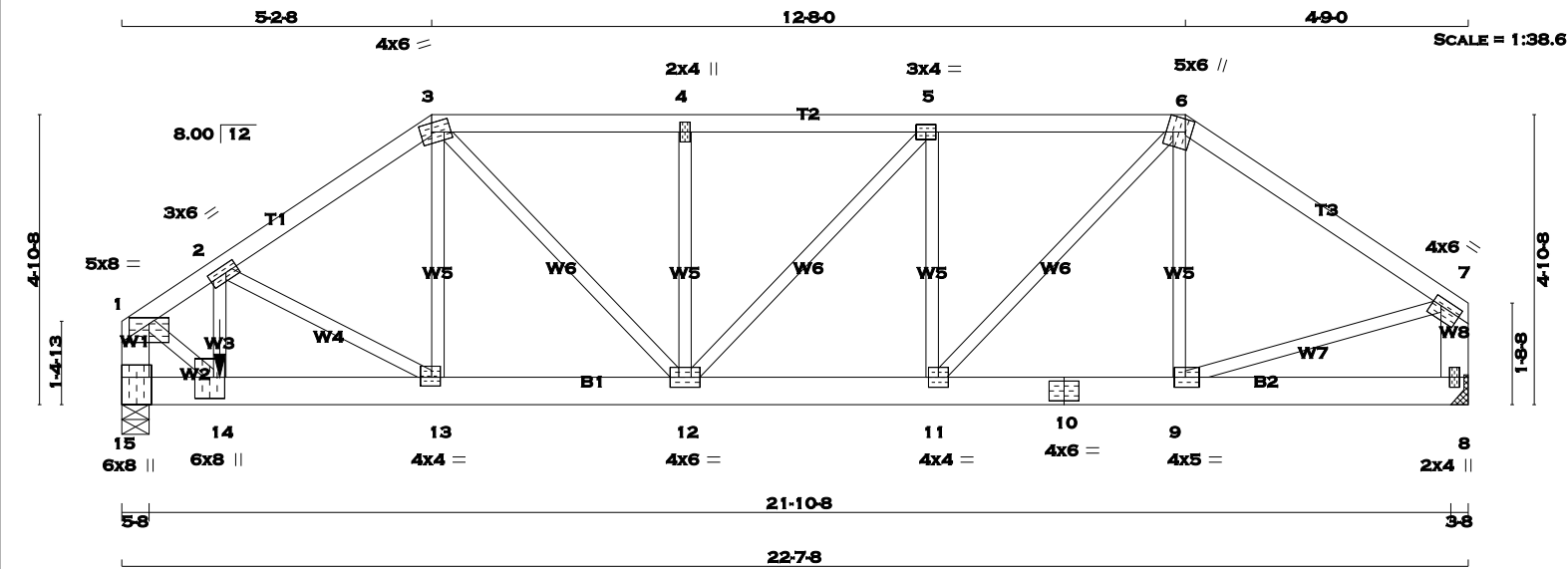
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (3) (INPUT = 0.90)
JSI METAL= 0.52 (3) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON THE
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LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 3	2x4	DRY	No.2	SPF
3 - 6	2x4	DRY	No.2	SPF
6 - 7	2x4	DRY	No.2	SPF
15 - 1	2x6	DRY	No.2	SPF
8 - 7	2x6	DRY	No.2	SPF
15 - 10	2x6	DRY	No.2	SPF
10 - 8	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	5.0	8.0	1.25	4.00
2	TMVW-t	MT20	3.0	6.0	1.50	2.50
3	TTWW-m	MT20	4.0	6.0	1.75	2.25
4	TMW+w	MT20	2.0	4.0		
5	TMVW-t	MT20	3.0	4.0		
6	TTWW+m	MT20	5.0	6.0	Edge	3.75
7	TMVW-t	MT20	4.0	6.0	1.50	1.75
8	BMV1+p	MT20	2.0	4.0		
9	BMVW-t	MT20	4.0	5.0	2.00	2.25
10	BS-t	MT20	4.0	6.0		
11	BMVW-t	MT20	4.0	4.0		
12	BMVWVW-t	MT20	4.0	6.0		
13	BMVW-t	MT20	4.0	4.0	1.75	1.75
14	BMVWVW-t	MT20	6.0	8.0	4.25	2.25
15	BMV1+t	MT20	6.0	8.0	5.50	

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 2513.5 lbs FACTORED DOWN AT 1-7-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
15		3404	0	3404	0	0	5-8	5-8	
8		1256	0	1256	0	0	HANGER BY OTHERS		
MIN. SEAT SIZE: 3-8									

UNFACTORED REACTIONS							
		1ST LCASE	MAX./MIN. COMPONENT REACTIONS				
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
15		2389	1671 / 0	0 / 0	0 / 0	0 / 0	718 / 0
8		881	617 / 0	0 / 0	0 / 0	0 / 0	265 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.85 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: (3)				
CHORDS				
MEMB. MAX. FACTORED FORCE (LBS)				
FR-TO				
1-2	-3003 / 0	-77.3	-77.3	0.18 (1)
2-3	-2023 / 0	-77.3	-77.3	0.22 (1)
3-4	-1869 / 0	-77.3	-77.3	0.25 (1)
4-5	-1869 / 0	-77.3	-77.3	0.26 (1)
5-6	-1688 / 0	-77.3	-77.3	0.25 (1)
6-7	-1329 / 0	-77.3	-77.3	0.39 (1)
15-1	-3231 / 0	0.0	0.0	0.23 (1)
8-7	-1219 / 0	0.0	0.0	0.09 (1)
15-14	0 / 0	-17.5	-17.5	0.19 (1)
14-13	0 / 2512	-17.5	-17.5	0.52 (1)
13-12	0 / 1689	-17.5	-17.5	0.28 (1)
12-11	0 / 1688	-17.5	-17.5	0.26 (1)
11-10	0 / 1099	-17.5	-17.5	0.16 (1)
10-9	0 / 1099	-17.5	-17.5	0.16 (1)
9-8	0 / 0	-17.5	-17.5	0.04 (3)
WEBS				
MEMB. MAX. FACTORED FORCE (LBS)				
FR-TO				
14-2	0 / 788	0.20	(1)	
2-13	-965 / 0	0.30	(1)	
13-3	0 / 667	0.17	(1)	
3-12	0 / 261	0.06	(1)	
12-4	-347 / 0	0.12	(1)	
12-5	0 / 267	0.07	(1)	
11-5	-547 / 0	0.19	(1)	
11-6	0 / 855	0.21	(1)	
9-6	-205 / 13	0.07	(1)	
1-14	0 / 2937	0.73	(1)	
9-7	0 / 1143	0.28	(1)	

FACTORED CONCENTRATED LOADS (LBS)						
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.
14	1-7-12	-2513	-2513	---	FRONT	VERT

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 8.00/12

*** NON STANDARD GIRDER ***

ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.75")

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

ALLOWABLE DEFL.(TL)= L/360 (0.75")

CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.39 (6-7:1) , BC=0.52 (13-14:1) , WB=0.73 (1-14:1) , SSI=0.17 (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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

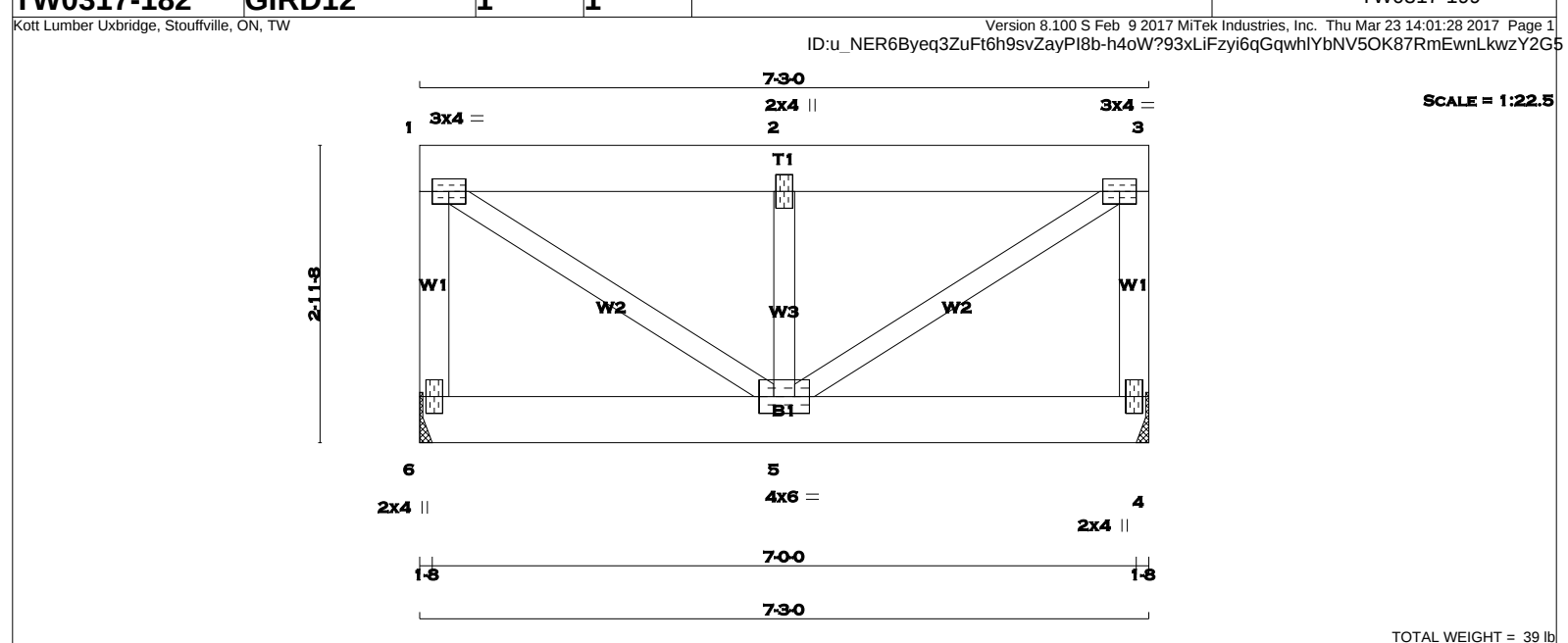
JSI GRIP= 0.89 (7) (INPUT = 0.90)

JSI METAL= 0.55 (14) (INPUT = 1.00)



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LUMBER

N. L. G. A. RULES

CHORDS SIZE

LUMBER

DESCR.

6 - 1

2x4

DRY

No.2

SPF

1 - 3

2x6

DRY

No.2

SPF

4 - 3

2x4

DRY

No.2

SPF

6 - 4

2x6

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	4.0		
2	TMW+w	MT20	2.0	4.0		
3	TMVW-t	MT20	3.0	4.0		
4	BMV1+p	MT20	2.0	4.0		
5	BMVWW-t	MT20	4.0	6.0		
6	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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		
6	376	0	376	0	0	
4	376	0	376	0	0	

UNFACTORED REACTIONS

JT	COMBINED	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
		SNOW	LIVE	PERM.	LIVE			
6	264	185 / 0	0 / 0	0 / 0	0 / 0	0 / 0	79 / 0	0 / 0
4	264	185 / 0	0 / 0	0 / 0	0 / 0	0 / 0	79 / 0	0 / 0

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)	
FR-TO		FROM	TO	FR-TO			
6-1	-340 / 0	0.0	0.0 0.05 (1)	7.81	1-5	0 / 376	0.09 (1)
1-2	-310 / 0	-84.6	-84.6 0.07 (1)	6.25	5-2	-361 / 0	0.06 (1)
2-3	-310 / 0	-84.6	-84.6 0.07 (1)	6.25	5-3	0 / 376	0.09 (1)
4-3	-340 / 0	0.0	0.0 0.05 (1)	7.81			
6-5	0 / 0	-19.1	-19.1 0.03 (3)	10.00			
5-4	0 / 0	-19.1	-19.1 0.03 (3)	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 8.00/12

GIRDER TYPE: CPrimeHip

SIDE SETBACK = 0-0

END SETBACK = 2-4-8

END WALL WIDTH = 0-0

CORNER FRAMING TYPE: CONVENTIONAL

END JACK TYPE: CONVENTIONAL

APPLIED TO FRONT SIDE

- ADDT'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

(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 (0.24")

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")

ALLOWABLE DEFL.(TL)= L/360 (0.24")

CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.07 (1-2:1) , BC=0.03 (4-5:3) , WB=0.09 (1-5:1) , SSI=0.12 (1-2:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00

COMP=1.00 SHEAR=1.00 TENS= 1.00

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.56 (1) (INPUT = 0.90)

JSI METAL= 0.12 (1) (INPUT = 1.00)

March 23, 2017

KOTT

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE 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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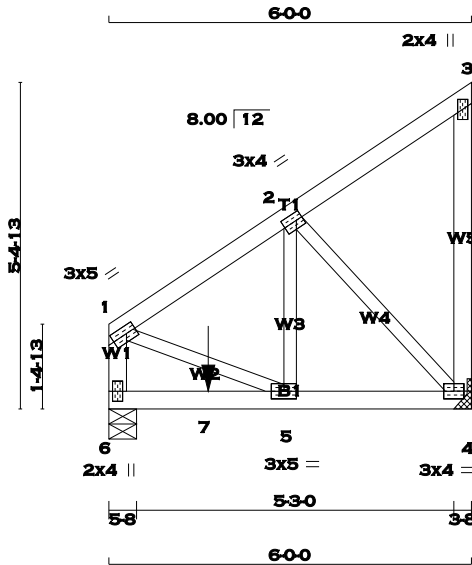
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SCALE = 1:38.1

TOTAL WEIGHT = 29 lb [M]

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

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMWW-t	MT20	3.0	5.0	1.50	2.00
2	TMWW-t	MT20	3.0	4.0	1.50	1.25
3	TMV+p	MT20	2.0	4.0		
4	BMVW1-t	MT20	3.0	4.0		
5	BMWW-t	MT20	3.0	5.0		
6	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 376.2 lbs FACTORED DOWN AT 1-7-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	IN-SX	IN-SX
4		733	0	733	0	0			
6		754	0	754	0	0	5-8	5-8	

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS		LIVE		PERM.LIVE		WIND		DEAD		SOIL	
JT		COMBINED	SNOW										
4		514	360 / 0	0 / 0	0 / 0	0 / 0	0 / 0	155 / 0	0 / 0				
6		529	370 / 0	0 / 0	0 / 0	0 / 0	0 / 0	159 / 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: (3)

CHORDS		FACTORED		W E B S		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO	LENGTH	FR-TO		
1-2	-572 / 0	-77.3	-77.3 0.12 (1)	6.25	5-2	0 / 542	0.13 (1)
2-3	-14 / 0	-77.3	-77.3 0.12 (1)	6.25	2-4	-699 / 0	0.21 (1)
4-3	-90 / 0	0.0	0.0 0.05 (1)	7.81	1-5	0 / 518	0.13 (1)
6-1	-591 / 0	0.0	0.0 0.07 (1)	7.81			
6-7	0 / 0	-17.5	-17.5 0.37 (1)	10.00			
7-5	0 / 0	-142.0	-142.0 0.37 (1)	10.00			
5-4	0 / 488	-142.0	-142.0 0.40 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
7	1-7-12	-376	-376	---	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
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 = 1-7-12
START SPAN CARRIED = 7-3-0
END DISTANCE = 6-0-0
END SPAN CARRIED = 7-3-0
END WALL WIDTH = 0-0
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDT'L LOADS BASED ON 55 % OF GSL.

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.12 (1-2:1) , BC=0.40 (4-5:1) , WB=0.21 (2-4:1) , SSI=0.37 (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 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.

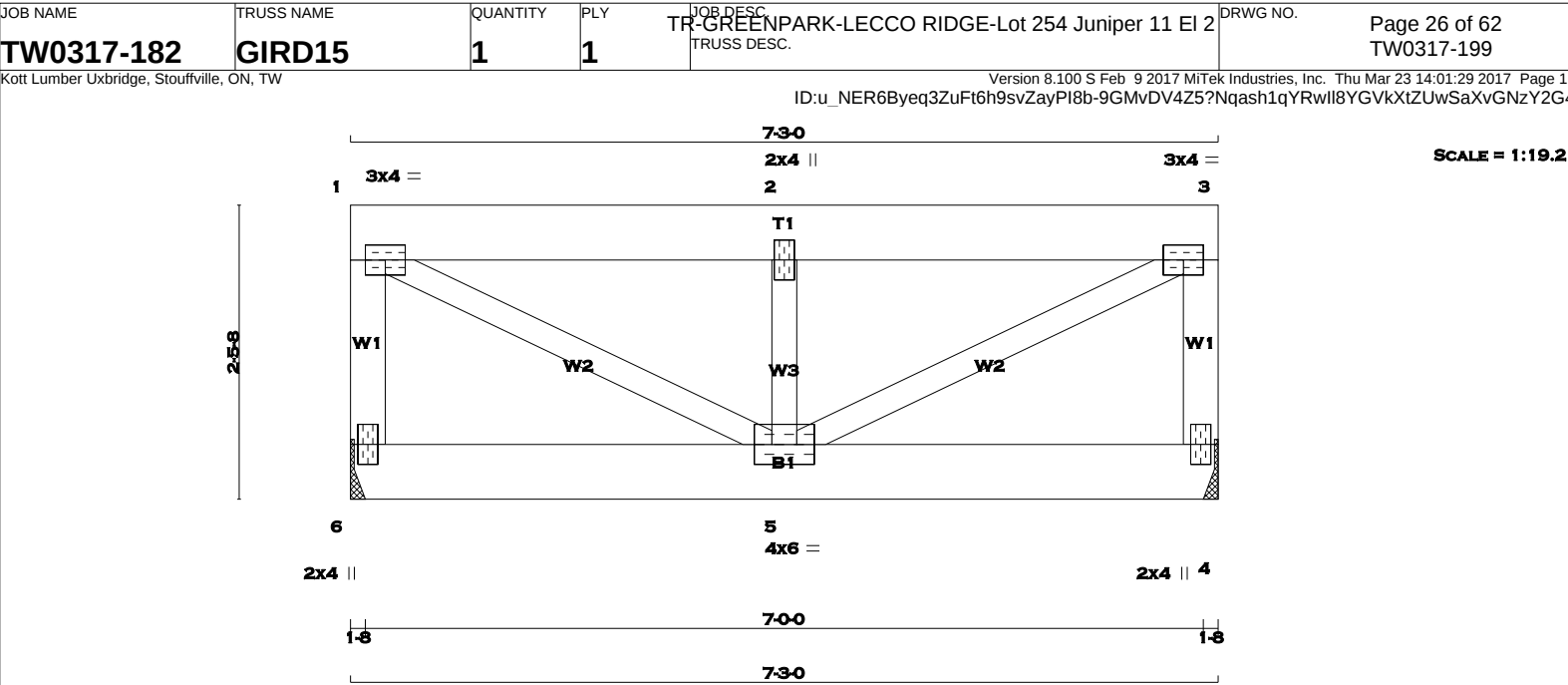
JSI GRIP= 0.89 (2) (INPUT = 0.90)
JSI METAL= 0.19 (1) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE 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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LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
6 - 1	2x4	DRY	No.2 SPF
1 - 3	2x6	DRY	No.2 SPF
4 - 3	2x4	DRY	No.2 SPF
6 - 4	2x6	DRY	No.2 SPF

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMW-t	MT20	3.0	4.0		
2	TMW+w	MT20	2.0	4.0		
3	TMW-t	MT20	3.0	4.0		
4	BMV1+p	MT20	2.0	4.0		
5	BMVWW-t	MT20	4.0	6.0		
6	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	FACTORED GROSS REACTION HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	MAXIMUM FACTORED GROSS REACTION HORZ	INPUT BRG UPLIFT	REQRD BRG IN-SX
6	376	0	376	0	0	HANGER BY OTHERS
4	376	0	376	0	0	MIN. SEAT SIZE: 1-8 HANGER BY OTHERS MIN. SEAT SIZE: 1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN. SNOW	MAX/MIN. LIVE	MAX/MIN. PERM. LIVE	MAX/MIN. WIND	MAX/MIN. DEAD	MAX/MIN. SOIL
6	264	185 / 0	0 / 0	0 / 0	0 / 0	79 / 0	0 / 0
4	264	185 / 0	0 / 0	0 / 0	0 / 0	79 / 0	0 / 0

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

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

LOADING
TOTAL LOAD CASES: (3)

FR-TO	CHORDS MAX. FACTORED MEMB. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX (LC)	MAX. UNBRAC LENGTH	WEBS MAX. FACTORED MEMB. FORCE (LBS)	FACTORED MAX (LC)
6-1	-337 / 0	0.0	0.0	0.04 (1)	7.81	1-5 0 / 432 0.11 (1)
1-2	-379 / 0	-84.6	-84.6	0.07 (1)	6.25	5-2 -356 / 0 0.06 (1)
2-3	-379 / 0	-84.6	-84.6	0.07 (1)	6.25	5-3 0 / 432 0.11 (1)
4-3	-337 / 0	0.0	0.0	0.04 (1)	7.81	
6-5	0 / 0	-19.1	-19.1	0.03 (1)	10.00	
5-4	0 / 0	-19.1	-19.1	0.03 (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 8.00/12

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 0-0
END SETBACK = 2-10-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.24")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.24")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.07 (1-2:1) , BC=0.03 (5-6:1) , WB=0.11 (1-5:1) , SSI=0.12 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

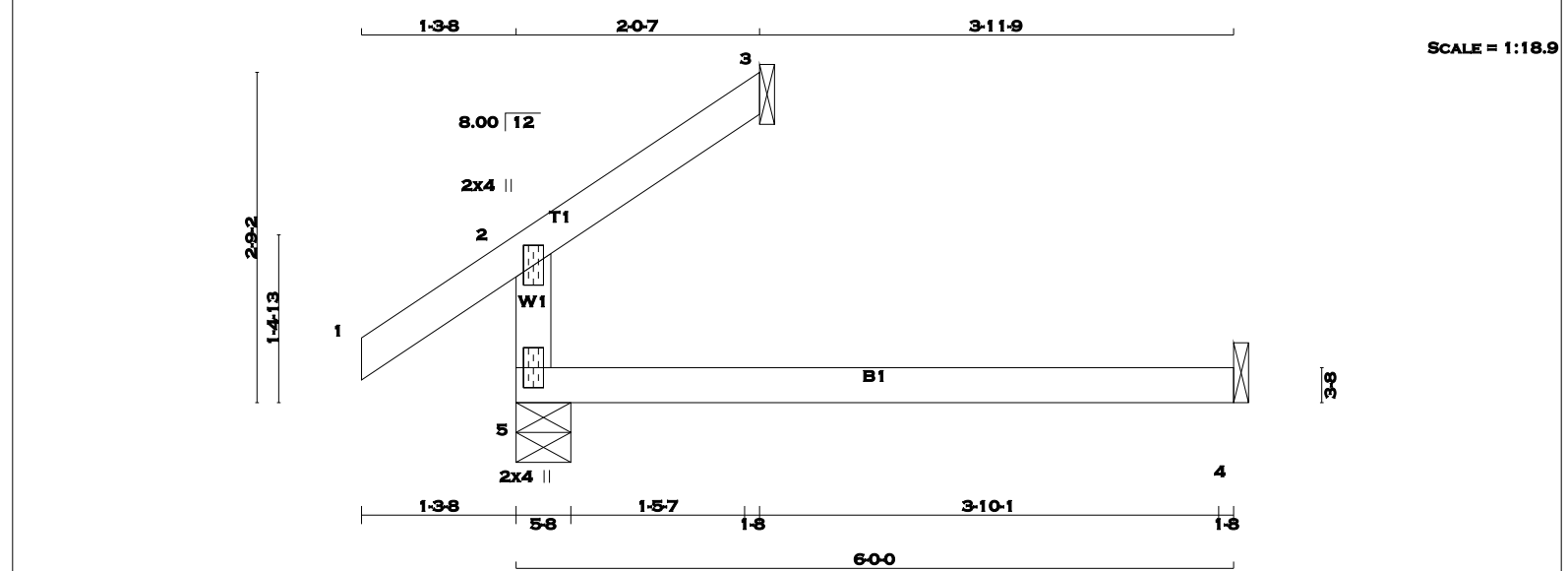
JSI GRIP= 0.63 (3) (INPUT = 0.90)
JSI METAL= 0.14 (1) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE 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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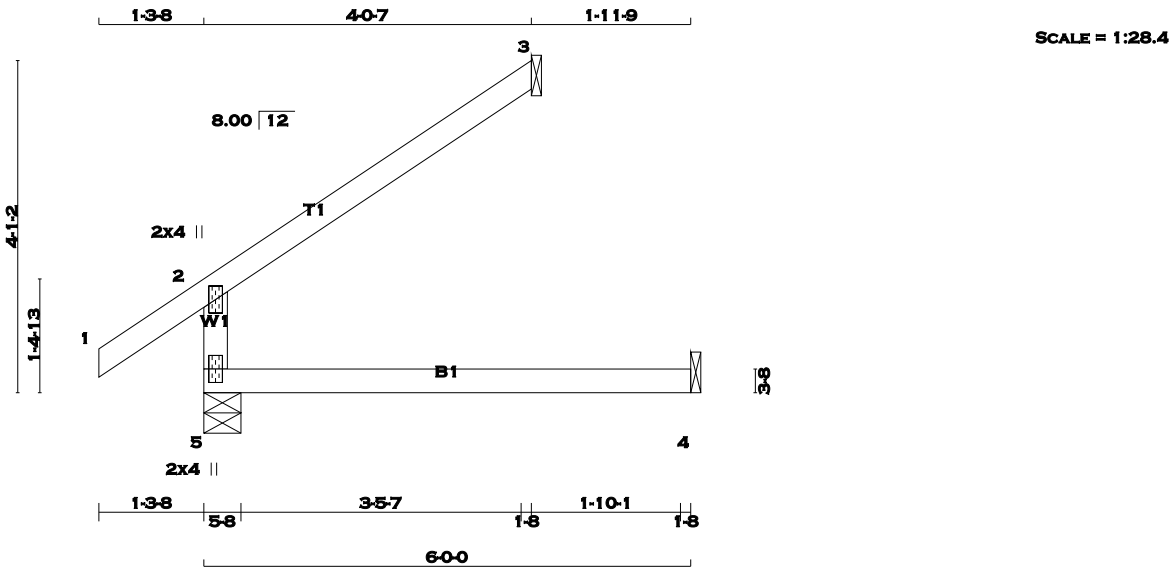


LUMBER										TOTAL WEIGHT = 13 lb									
N. L. G. A. RULES										[M]									
CHORDS SIZE LUMBER DESCR.																			
5 - 2 2x4 DRY No.2 SPF																			
1 - 3 2x4 DRY No.2 SPF																			
5 - 4 2x4 DRY No.2 SPF																			
DRY: SEASONED LUMBER.																			
PLATES (table is in inches)																			
JT TYPE PLATES W LEN Y X																			
2 TMV+p MT20 2.0 4.0																			
5 BMV1+p MT20 2.0 4.0																			
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.																			
DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA									
BEARINGS										SPECIFIED LOADS:									
FACTORED MAXIMUM FACTORED INPUT REQD										TOP CH. LL = 23.3 PSF									
GROSS REACTION GROSS REACTION BRG BRG										DL = 3.0 PSF									
JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX										BOT CH. LL = 0.0 PSF									
5 265 0 265 0 0 5-8 5-8										DL = 7.0 PSF									
3 60 0 60 0 0 1-8 1-8										TOTAL LOAD = 33.3 PSF									
4 44 0 49 0 0 1-8 1-8																			
SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 3 , 4										SPACING = 24.0 IN. C/C									
UNFACTORED REACTIONS										THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010									
1ST LCASE MAX./MIN. COMPONENT REACTIONS										THIS DESIGN COMPLIES WITH:									
JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL										- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014									
5 188 123 / 0 0 / 0 0 / 0 0 / 0 65 / 0 0 / 0										- CSA 086-09									
3 40 36 / 0 0 / 0 0 / 0 0 / 0 5 / 0 0 / 0										- TPIC 2011									
4 35 0 / 0 0 / 0 0 / 0 0 / 0 35 / 0 0 / 0										DESIGN ASSUMPTIONS									
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5, 3										- OVERHANG NOT TO BE ALTERED OR CUT OFF.									
BRACING										(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									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.										ALLOWABLE DEFL.(LL)= L/360 (0.20")									
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.										CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")									
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.										ALLOWABLE DEFL.(TL)= L/360 (0.20")									
LOADING										CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")									
TOTAL LOAD CASES: (3)										CSI: TC=0.12 (2-5:3) , BC=0.13 (4-5:3) , WB=0.00 (n/a:0) , SSI=0.08 (4-5:3)									
CHORDS WEBS										DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10									
MAX. FACTORED FACTORED MAX. MEMB. MAX. FACTORED										COMP=1.10 SHEAR=1.10 TENS= 1.10									
MEMB. FORCE VERT. LOAD LC1 MAX MAX. MEMB. FORCE MAX										COMPANION LIVE LOAD FACTOR = 0.50									
(LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC)										TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .									
FR-TO FROM TO										NAIL VALUES									
5- 2 -204 / 0 0.0 0.0 0.12 (3) 7.81										PLATE GRIP(DRY) SHEAR SECTION									
1- 2 0 / 29 -77.3 -77.3 0.10 (1) 10.00										(PSI) (PLI) (PLI)									
2- 3 -11 / 0 -77.3 -77.3 0.05 (1) 6.25										MAX MIN MAX MIN MAX MIN									
5- 4 0 / 0 -17.5 -17.5 0.13 (3) 10.00										MT20 618 354 1667 822 2284 1656									
										PLATE PLACEMENT TOL. = 0.250 inches									
										PLATE ROTATION TOL. = 5.0 Deg.									
										JSI GRIP= 0.13 (2) (INPUT = 0.90)									
										JSI METAL= 0.05 (2) (INPUT = 1.00)									
										RECEIVED TOWN OF MILTON MAY 11, 2017 17-6230 BUILDING DIVISION									
March 23, 2017										READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE 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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LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
5 - 2	2x4	DRY	No.2	SPF
1 - 3	2x4	DRY	No.2	SPF
5 - 4	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG			
	VERT	HORZ	DOWN	HORZ			UPLIFT	IN-SX	IN-SX
5	362	0	362	0	0	5-8	5-8		
3	117	0	117	0	0	1-8	1-8		
4	44	0	49	0	0	1-8	1-8		

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

UNFACTORED REACTIONS							
JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
5	254	181 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0
3	80	71 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
4	35	0 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0

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

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

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

LOADING				
TOTAL LOAD CASES: (3)				
MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH FR-TO	MAX. FACTORED FORCE (LBS)
FR-TO				
5-2	-301 / 0	0.0	0.0 0.12 (3)	7.81
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00
2-3	-22 / 0	-77.3	-77.3 0.21 (1)	6.25
5-4	0 / 0	-17.5	-17.5 0.13 (3)	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=0.21 (2-3:1) , BC=0.13 (4-5:3) , WB=0.00 (n/a:0) , SSI=0.13 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

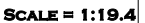
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (2) (INPUT = 0.90)
JSI METAL= 0.07 (2) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE 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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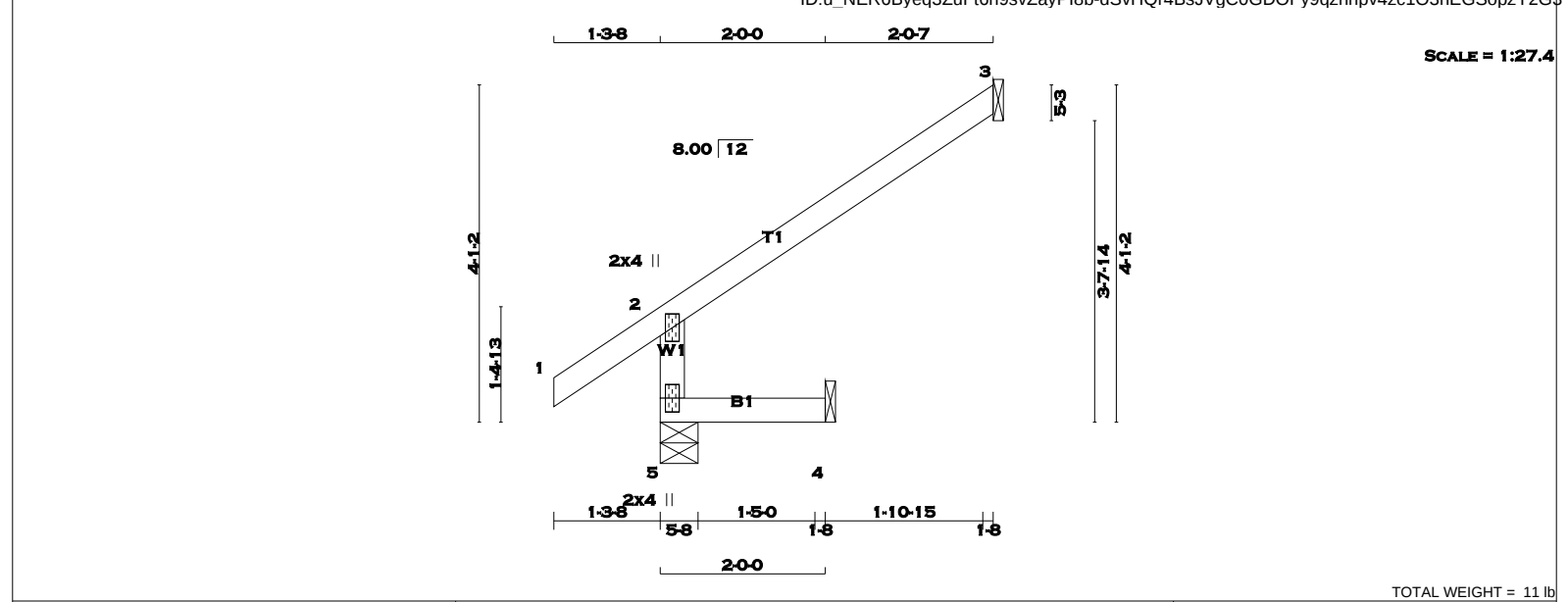
DRY: SEASONED LUMBER.

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

JSI GRIP= 0.13 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)





March 23, 2017



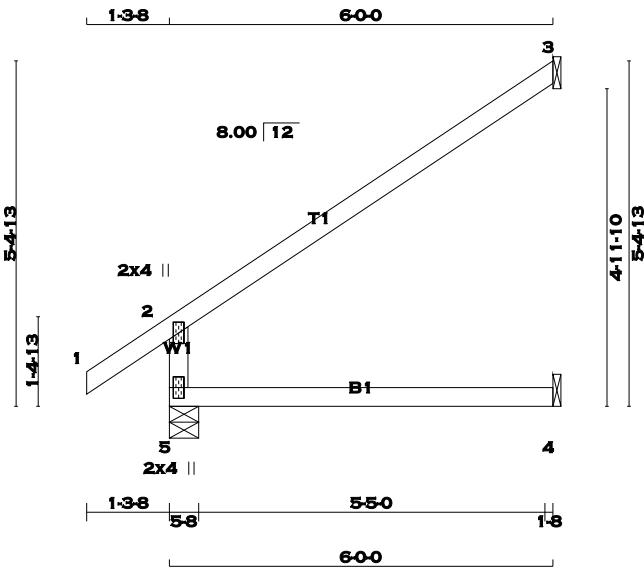
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Kott Lumber Uxbridge, Stouffville, ON, TW

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Thu Mar 23 14:01:30 2017 Page 1

ID:u_NER6Byeq3ZuFt6h9svZayPI8b-dSvHQR4BsJVgC0GDOFy9qzhdkv2Cc1O3hEGSopzY2G3



TOTAL WEIGHT = 16 X 18 = 290 lb [M]

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

DRY: SEASONED LUMBER.

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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	
5		457	0	457	0	0	5-8	5-8	
3		174	0	174	0	0	1-8	1-8	
4		44	0	49	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
5	318	239 / 0	0 / 0	0 / 0	0 / 0	80 / 0	0 / 0		
3	118	105 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0		
4	35	0 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0		

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
5-2	-396 / 0	0.0	0.0	0.12 (3)	7.81		
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00		
2-3	-32 / 0	-77.3	-77.3	0.47 (1)	6.25		
5-4	0 / 0	-17.5	-17.5	0.13 (3)	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=0.47 (2-3:1) , BC=0.13 (4-5:3) , WB=0.00 (n/a:0) , SSI=0.19 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

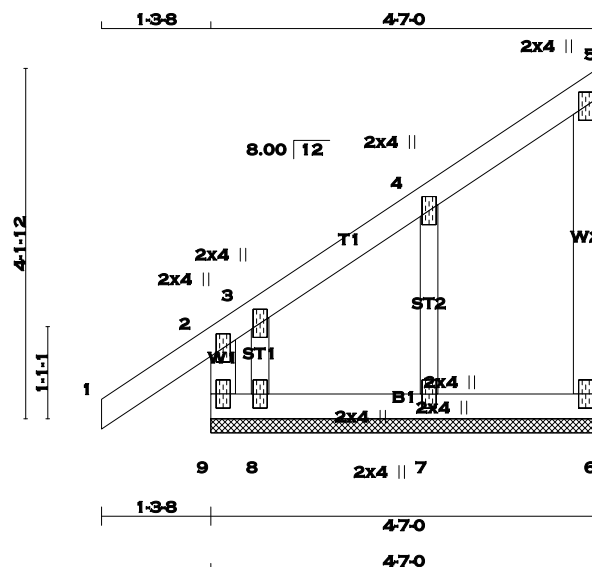
JSI GRIP= 0.25 (2) (INPUT = 0.90)
JSI METAL= 0.10 (2) (INPUT = 1.00)



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

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SCALE = 1:27.3

TOTAL WEIGHT = 21 lb

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMW+w	MT20	2.0	4.0		
4	TMW+w	MT20	2.0	4.0		
5	TMV+p	MT20	2.0	4.0		
6	BMV1+p	MT20	2.0	4.0		
7	BMW1+w	MT20	2.0	4.0		
8	BMW1+w	MT20	2.0	4.0		
9	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TI 20 PLATES IS ALLOWED

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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE

PROVIDE ANCHORAGE AT BEARING JOINT 8 FOR 150 LBS FACTORED UPLIFT
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)

BRACING

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

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
9-2	-223 / 0	0.0	0.0 0.03 (1)	7.81	7-4	-172 / 0	0.03 (1)
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00			0.00 (1)
2-3	-62 / 0	-77.3	-77.3 0.08 (1)	6.25			
3-4	-7 / 0	-77.3	-77.3 0.04 (1)	10.00	8-3	0 / 2	
4-5	-10 / 0	-77.3	-77.3 0.04 (1)	6.25			
6-5	-68 / 0	0.0	0.0 0.02 (1)	7.81			
9-8	0 / 10	-17.5	-17.5 0.03 (1)	10.00			
8-7	0 / 10	-17.5	-17.5 0.02 (3)	10.00			
7-6	0 / 4	-17.5	-17.5 0.02 (3)	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

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 (1-2:1) , BC=0.03 (8-9:1) , WB=0.03 (4-7:1) , SSI=0.07 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

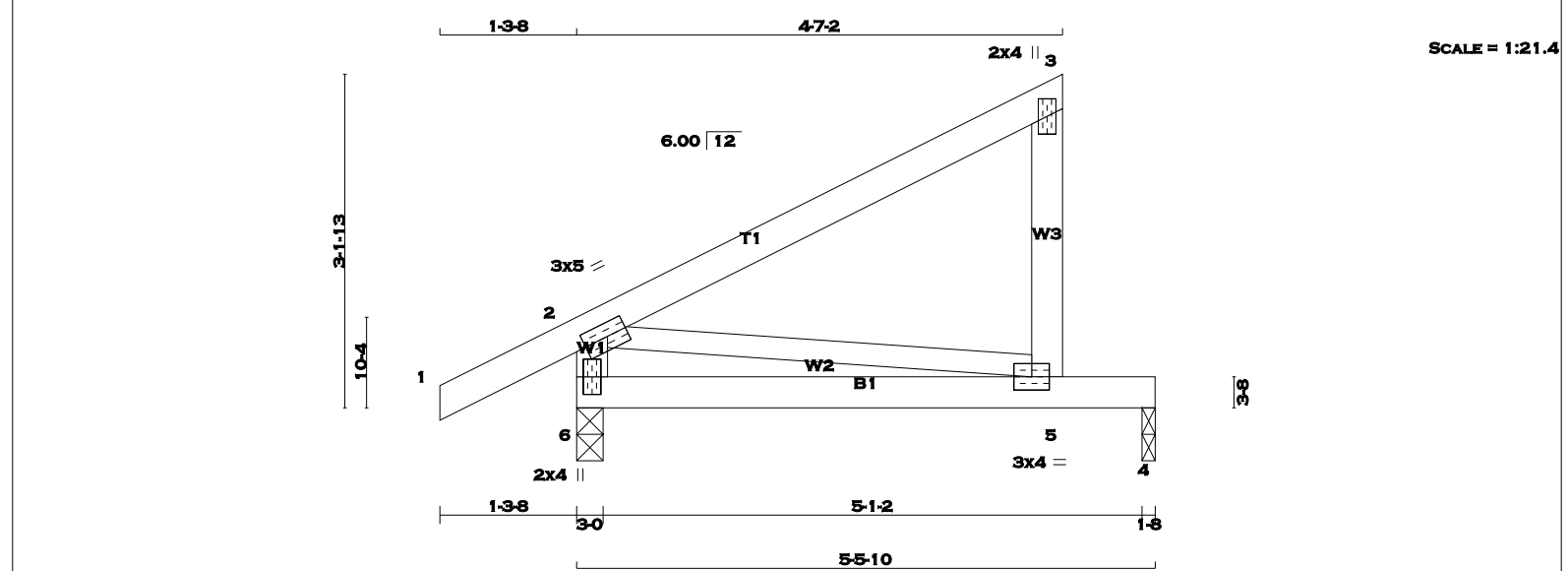
JSI GRIP= 0.15 (2) (INPUT = 0.90)
JSI METAL= 0.06 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 5 X 21 = 103 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS		SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
5 - 3	2x4	DRY	No.2	SPF
6 - 2	2x4	DRY	No.2	SPF
6 - 4	2x4	DRY	No.2	SPF
ALL WEBS 2x3		DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	5.0	1.50	2.25
3	TMV+p	MT20	2.0	4.0		
5	BMVW-t	MT20	3.0	4.0		
6	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
6		359	0	359	0	0	3-0	3-0	
4		197	0	197	0	0	1-8	1-8	

UNFACTORED REACTIONS							
		1ST LCASE	MAX./MIN. COMPONENT REACTIONS				
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
6		250	187 / 0	0 / 0	0 / 0	0 / 0	62 / 0
4		140	90 / 0	0 / 0	0 / 0	0 / 0	50 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6, 4

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: (3)							
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 23	-77.3 -77.3	0.10 (1)	10.00	2-5	0 / 0	0.00 (1)
2-3	0 / 0	-77.3 -77.3	0.28 (1)	10.00			
5-3	-178 / 0	0.0 0.0	0.03 (1)	7.81			
6-2	-283 / 0	0.0 0.0	0.03 (1)	7.81			
6-5	0 / 0	-17.5 -17.5	0.23 (1)	10.00			
5-4	0 / 0	-17.5 -17.5	0.23 (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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 679 (0.10")

CSI: TC=0.28 (2-3:1) , BC=0.23 (5-6:1) , WB=0.00 (2-5:1) , SSI=0.15 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

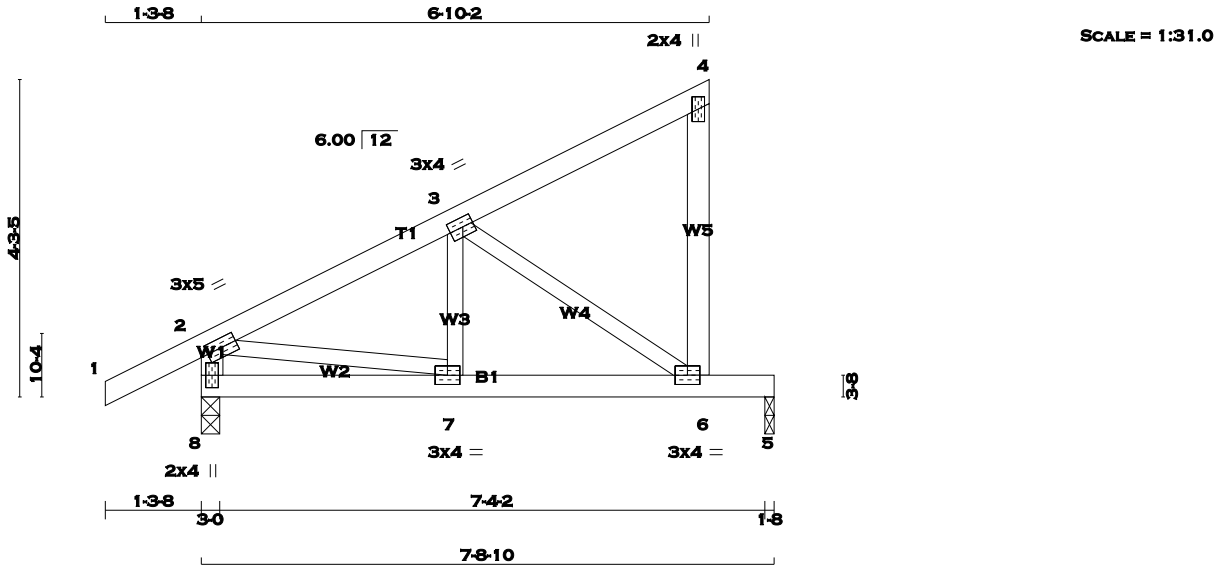
JSI GRIP= 0.26 (2) (INPUT = 0.90)
JSI METAL= 0.05 (6) (INPUT = 1.00)



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March 24, 2017



LUMBER					DESCR.
N. L. G. A. RULES	SIZE	LUMBER	No.2		
CHORDS	2x4	DRY	No.2		SPF
1 - 4	2x4	DRY	No.2		SPF
6 - 4	2x4	DRY	No.2		SPF
8 - 2	2x4	DRY	No.2		SPF
8 - 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	2.25
3	TMVW-t	MT20	3.0	4.0	1.50	1.75
4	TMV+p	MT20	2.0	4.0		
6	BMVW-t	MT20	3.0	4.0		
7	BMVW-t	MT20	3.0	4.0		
8	BMV1-p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX
8	467	0	467	0	0	3-0	3-0	3-0	
5	302	0	302	0	0	1-8	1-8	1-8	

UNFACTORED REACTIONS		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
8	326	241 / 0	0 / 0	0 / 0	0 / 0	85 / 0	0 / 0		
5	213	141 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0		

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 5

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

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH	FACTORED MAX CSI (LC)
FR-TO		FROM TO		FR-TO			
1-2	0 / 23	-77.3 -77.3	0.10 (1)	10.00	7-3	0 / 120	0.03 (3)
2-3	-416 / 0	-77.3 -77.3	0.11 (1)	6.25	3-6	-460 / 0	0.12 (1)
3-4	-14 / 0	-77.3 -77.3	0.11 (1)	6.25	2-7	0 / 389	0.09 (1)
6-4	-102 / 0	0.0 0.0	0.03 (1)	7.81			
8-2	-460 / 0	0.0 0.0	0.05 (1)	7.81			
8-7	0 / 0	-17.5 -17.5	0.11 (1)	10.00			
7-6	0 / 384	-17.5 -17.5	0.41 (1)	10.00			
6-5	0 / 0	-17.5 -17.5	0.35 (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

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 (0.26")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.26")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.08")

CSI: TC=0.11 (2-3:1) , BC=0.41 (6-7:1) , WB=0.12 (3-6:1) , SSI=0.24 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.63 (7) (INPUT = 0.90)
JSI METAL= 0.16 (2) (INPUT = 1.00)



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

March 24, 2017

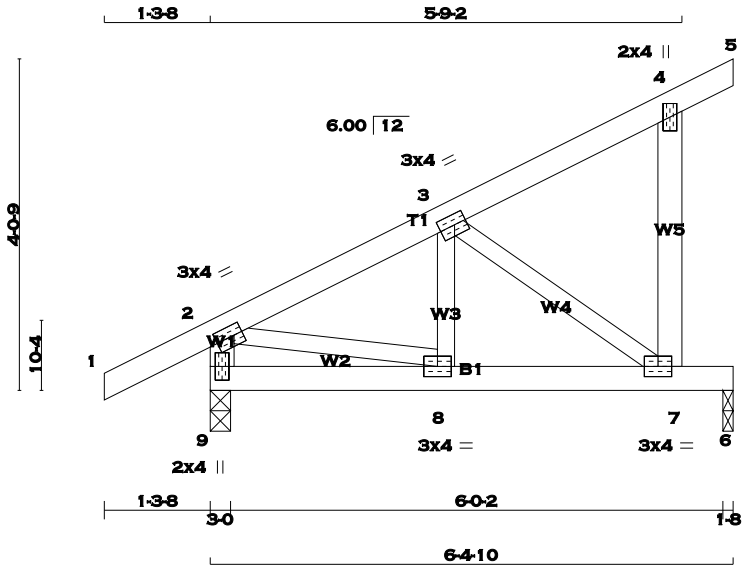
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TOTAL WEIGHT = 4 X 27 = 109 lb
[M][F]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 5	2x4	DRY	No.2	SPF
7 - 4	2x4	DRY	No.2	SPF
9 - 2	2x4	DRY	No.2	SPF
9 - 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-t	MT20	3.0	4.0	1.50	1.25
3	TMVW-t	MT20	3.0	4.0	1.50	1.75
4	TMV+p	MT20	2.0	4.0		
7	BMVW-t	MT20	3.0	4.0		
8	BMVW-t	MT20	3.0	4.0		
9	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
9		411	0	411	0	0	3-0	3-0	
6		305	0	305	0	0	1-8	1-8	

UNFACTORED REACTIONS							
JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
9		286	214 / 0	0 / 0	0 / 0	0 / 0	72 / 0
6		214	150 / 0	0 / 0	0 / 0	0 / 0	64 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 9, 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: (3)				
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO	CSI (LC)		FR-TO			FR-TO	
1-2	0 / 23	-77.3	-77.3 0.10 (1)	10.00	8-3	0 / 94	0.03 (3)		
2-3	-334 / 0	-77.3	-77.3 0.08 (1)	6.25	3-7	-375 / 0	0.08 (1)		
3-4	-11 / 0	-77.3	-77.3 0.08 (1)	6.25	2-8	0 / 314	0.07 (1)		
4-5	-12 / 0	-77.3	-77.3 0.02 (1)	6.25					
7-4	-140 / 0	0.0	0.0 0.03 (1)	7.81					
9-2	-404 / 0	0.0	0.0 0.04 (1)	7.81					
9-8	0 / 0	-17.5	-17.5 0.07 (1)	10.00					
8-7	0 / 308	-17.5	-17.5 0.30 (1)	10.00					
7-6	0 / 0	-17.5	-17.5 0.25 (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

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 (0.21")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.21")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.10 (1-2:1) , BC=0.30 (7-8:1) , WB=0.08 (3-7:1) , SSI=0.24 (6-7:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

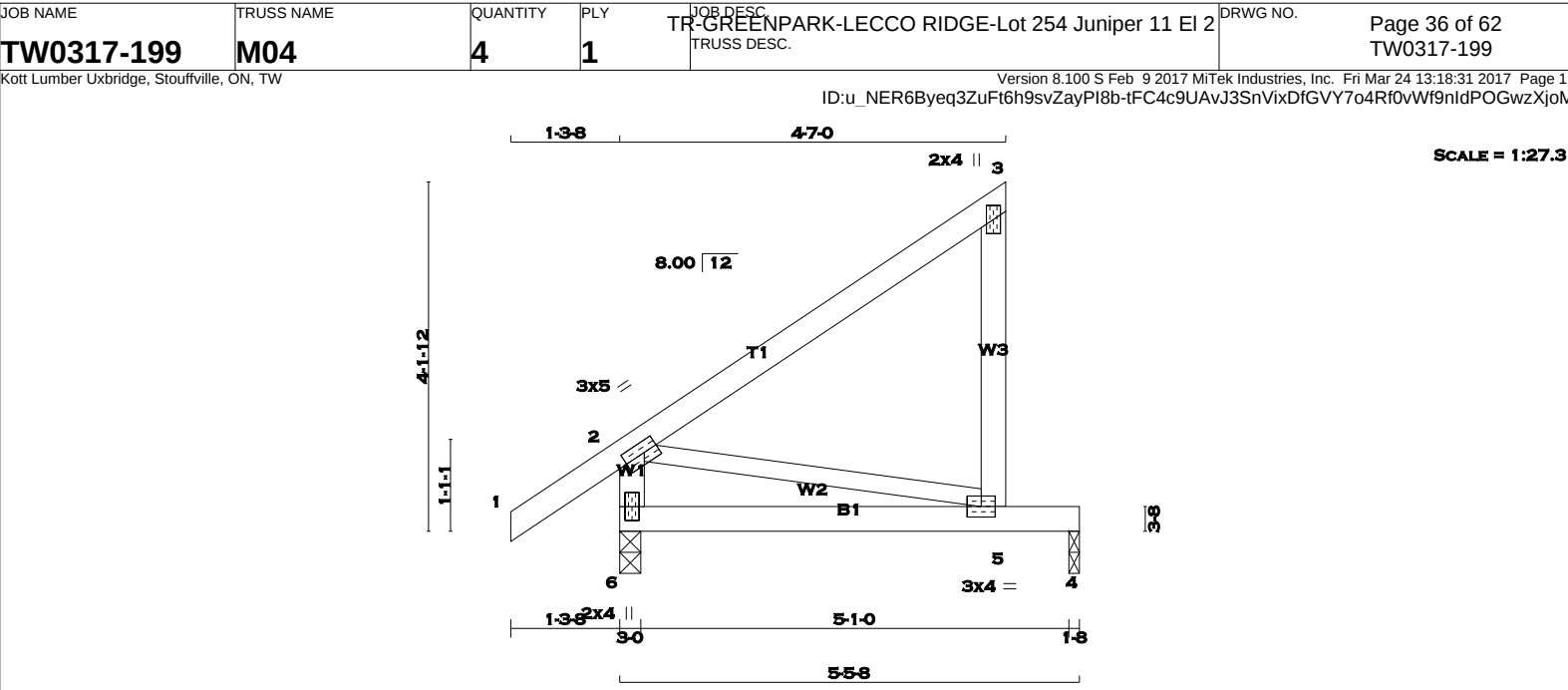
JSI GRIP= 0.76 (2) (INPUT = 0.90)
JSI METAL= 0.16 (2) (INPUT = 1.00)



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BUILDING DIVISION

March 24, 2017



LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
5 - 3	2x4	DRY	No.2
6 - 2	2x4	DRY	No.2
6 - 4	2x4	DRY	No.2

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	5.0	1.50	2.00
3	TMV+p	MT20	2.0	4.0		
5	BMVW-t	MT20	3.0	4.0		
6	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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
6	360	360	3-0	3-0
4	197	197	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN. SNOW	MAX/MIN. LIVE	MAX/MIN. PERM. LIVE	WIND	DEAD	SOIL
6	250	188 / 0	0 / 0	0 / 0	0 / 0	62 / 0	0 / 0
4	139	90 / 0	0 / 0	0 / 0	0 / 0	50 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6, 4

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: (3)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	LC2 MAX	MAX. UNBRACED LENGTH	MEMB.	WEBS MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO				FR-TO		
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	2-5	0 / 0	0.00 (1)
2-3	0 / 0	-77.3	-77.3	0.28 (1)	10.00			
5-3	-177 / 0	0.0	0.0	0.05 (1)	7.81			
6-2	-283 / 0	0.0	0.0	0.03 (1)	7.81			
6-5	0 / 0	-17.5	-17.5	0.23 (1)	10.00			
5-4	0 / 0	-17.5	-17.5	0.22 (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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 682 (0.10")

CSI: TC=0.28 (2-3:1), BC=0.23 (5-6:1), WB=0.00 (2-5:1), SSI=0.15 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

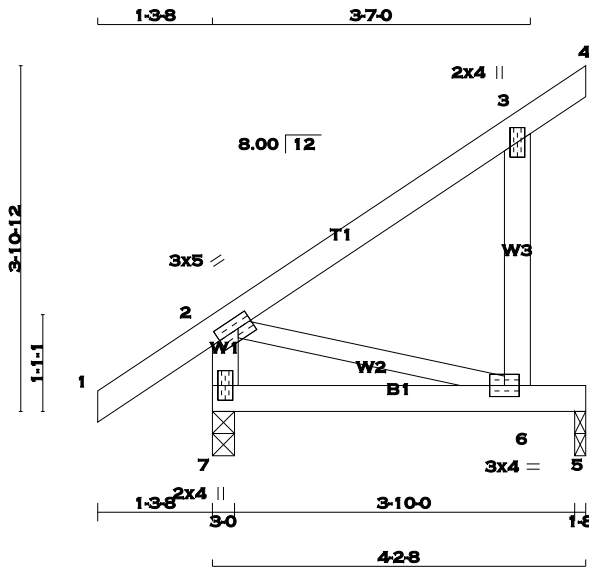
JSI GRIP= 0.26 (2) (INPUT = 0.90)
JSI METAL= 0.06 (2) (INPUT = 1.00)



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

March 24, 2017

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TOTAL WEIGHT = 4 X 19 = 76 lb [M]

LUMBER				DESCR.	
N. L. G. A. RULES					
CHORDS	SIZE	LUMBER		SPF	
1 - 4	2x4	DRY	No.2	SPF	
6 - 3	2x4	DRY	No.2	SPF	
7 - 2	2x4	DRY	No.2	SPF	
7 - 5	2x4	DRY	No.2	SPF	
ALL WEBS 2x3				DRY	SPF
DRY: SEASONED LUMBER.				No.2	

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	5.0	1.50	2.00
3	TMV+p	MT20	2.0	4.0		
6	BMVW-t	MT20	3.0	4.0		
7	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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	
7		310	0	310	0	0	3-0	3-0	
5		201	0	201	0	0	1-8	1-8	

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7	215	165 / 0	0 / 0	0 / 0	0 / 0	51 / 0	0 / 0
5	141	99 / 0	0 / 0	0 / 0	0 / 0	42 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7, 5

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

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS				WEBS			
MEMB.		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB.		MAX. FACTORED FORCE (LBS)
FR-TO			FROM TO	CSI (LC)	FR-TO		MAX. CSI (LC)
1-2		0 / 29	-77.3	-77.3 0.10 (1)	10.00	2-6	0 / 0
2-3		0 / 0	-77.3	-77.3 0.17 (1)	10.00		
3-4		-15 / 0	-77.3	-77.3 0.03 (1)	6.25		
6-3		-193 / 0	0.0	0.0 0.04 (1)	7.81		
7-2		-245 / 0	0.0	0.0 0.02 (1)	7.81		
7-6		0 / 0	-17.5	-17.5 0.17 (1)	10.00		
6-5		0 / 0	-17.5	-17.5 0.17 (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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.17 (2-3:1) , BC=0.17 (6-7:1) , WB=0.00 (2-6:1) , SSI=0.16 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

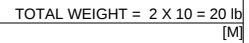
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JSI METAL= 0.05 (2) (INPUT = 1.00)



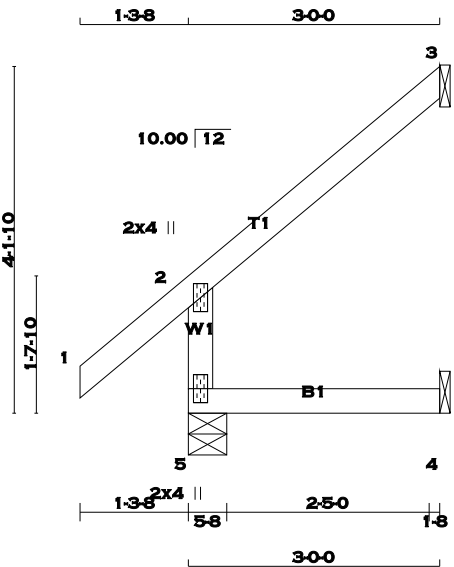
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

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TOTAL WEIGHT = 4 X 11 = 46 lb [M]

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

DRY: SEASONED LUMBER.

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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	
5		281	0	281	0	0	5-8	5-8	
3		87	0	87	0	0	1-8	1-8	
4		23	0	26	0	0	1-8	1-8	

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

UNFACTORED REACTIONS		MAX./MIN. COMPONENT REACTIONS						
JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5		194	152 / 0	0 / 0	0 / 0	0 / 0	43 / 0	0 / 0
3		59	53 / 0	0 / 0	0 / 0	0 / 0	7 / 0	0 / 0
4		19	0 / 0	0 / 0	0 / 0	0 / 0	19 / 0	0 / 0

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

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

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

LOADING				TOTAL LOAD CASES: (4)			
CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (LC)	MEMB.	FORCE (LBS)	MAX. (LC)	
FR-TO		FROM	TO	FR-TO		LENGTH	
5- 2	-252 / 0	0.0	0.0 0.02 (3)	7.81			
1- 2	0 / 34	-77.3	-77.3 0.11 (1)	10.00			
2- 3	-18 / 0	-77.3	-77.3 0.12 (1)	6.25			
5- 4	0 / 0	-17.5	-17.5 0.04 (3)	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=0.12 (2-3:1) , BC=0.04 (4-5:3) , WB=0.00 (n/a:0) , SSI=0.09 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

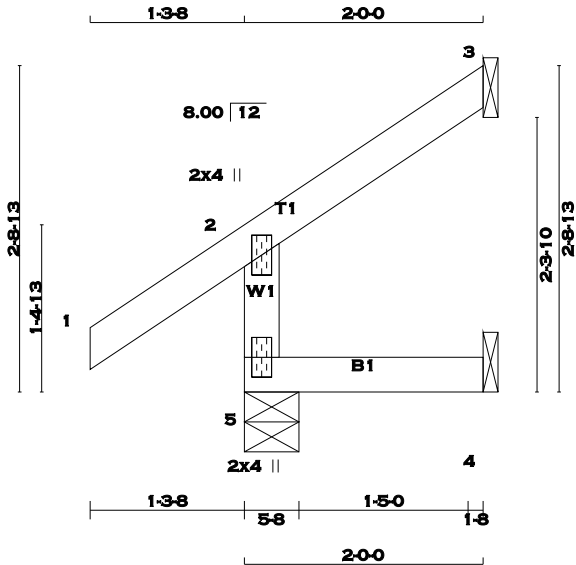
JSI GRIP= 0.18 (2) (INPUT = 0.90)
JSI METAL= 0.07 (2) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE 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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17-6230
BUILDING DIVISION

March 23, 2017



SCALE = 1:19.3

TOTAL WEIGHT = 3 X 8 = 24 lb [M]

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

DRY: SEASONED LUMBER.

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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	
3		59	0	59	0	0	1-8	1-8	
5		222	0	222	0	0	5-8	5-8	
4		16	0	18	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

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

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		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (LC)	MEMB.	FORCE (LBS)	MAX. (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00			
2-3	-10 / 0	-77.3	-77.3 0.05 (1)	6.25			
5-2	-202 / 0	0.0	0.0 0.01 (3)	7.81			
5-4	0 / 0	-17.5	-17.5 0.02 (3)	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 (1-2:1) , BC=0.02 (4-5:3) , WB=0.00 (n/a:0) , SSI=0.07 (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= 0.13 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)



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

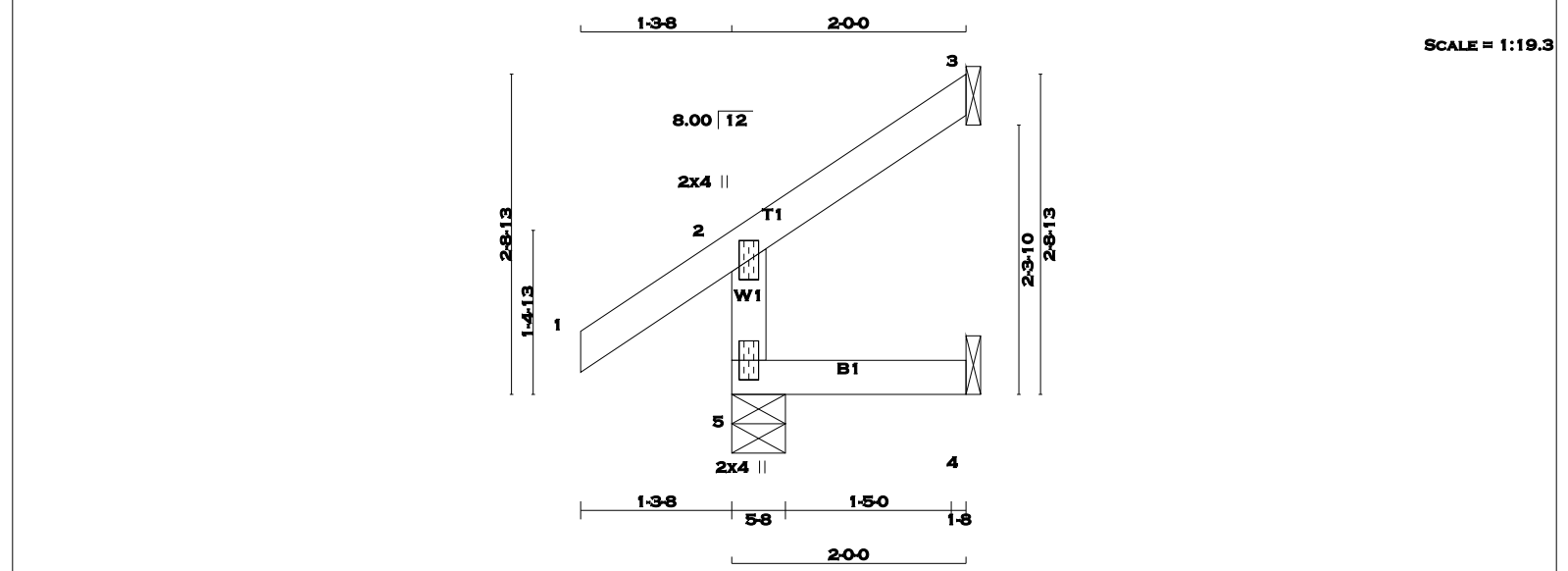
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MAY 11, 2017
17-6230
BUILDING DIVISION

March 23, 2017

Kott Lumber Uxbridge, Stouffville, ON, TW

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Thu Mar 23 14:01:31 2017 Page 1

ID:u_NER6Byeq3ZuFt6h9svZayPI8b-5ftfeB5qddeXpArPyyTONADuHJQCLUeDwu0?LFzY2G2



LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

SPF

5 - 2

2x4

DRY

No.2

1 - 3

2x4

DRY

No.2

5 - 4

2x4

DRY

No.2

DRY: SEASONED LUMBER.

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

BEARINGS

FACTORED

MAXIMUM FACTORED

INPUT

REQRD

GROSS REACTION

GROSS REACTION

BRG

BRG

DOWN

HORZ

UPLIFT

IN-SX

IN-SX

5

222

0

222

0

0

5-8

5-8

3

59

0

59

0

0

1-8

1-8

4

16

0

18

0

0

1-8

1-8

TOTAL WEIGHT = 2 X 8 = 16 lb

[M]

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

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

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

UNFACTORED REACTIONS								
1ST LCASE			MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	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	

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BRACING

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

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

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

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

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

LOADING

TOTAL LOAD CASES: (4)

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")

CHORDS			WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)

FR-TO		FROM TO		LENGTH FR-TO	
5-2	-202 / 0	0.0	0.0	0.01 (3)	7.81
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00
2-3	-10 / 0	-77.3	-77.3	0.05 (1)	6.25
5-4	0 / 0	-17.5	-17.5	0.02 (3)	10.00

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

CSI: TC=0.10 (1-2:1) , BC=0.02 (4-5:3) , WB=0.00 (n/a:0) , SSI=0.07 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES		PLATE GRIP(DRY)		SHEAR (PSI)		SECTION (PLI)	
MAX	MIN	MAX	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= 0.13 (2) (INPUT = 0.90)

JSI METAL= 0.05 (2) (INPUT = 1.00)

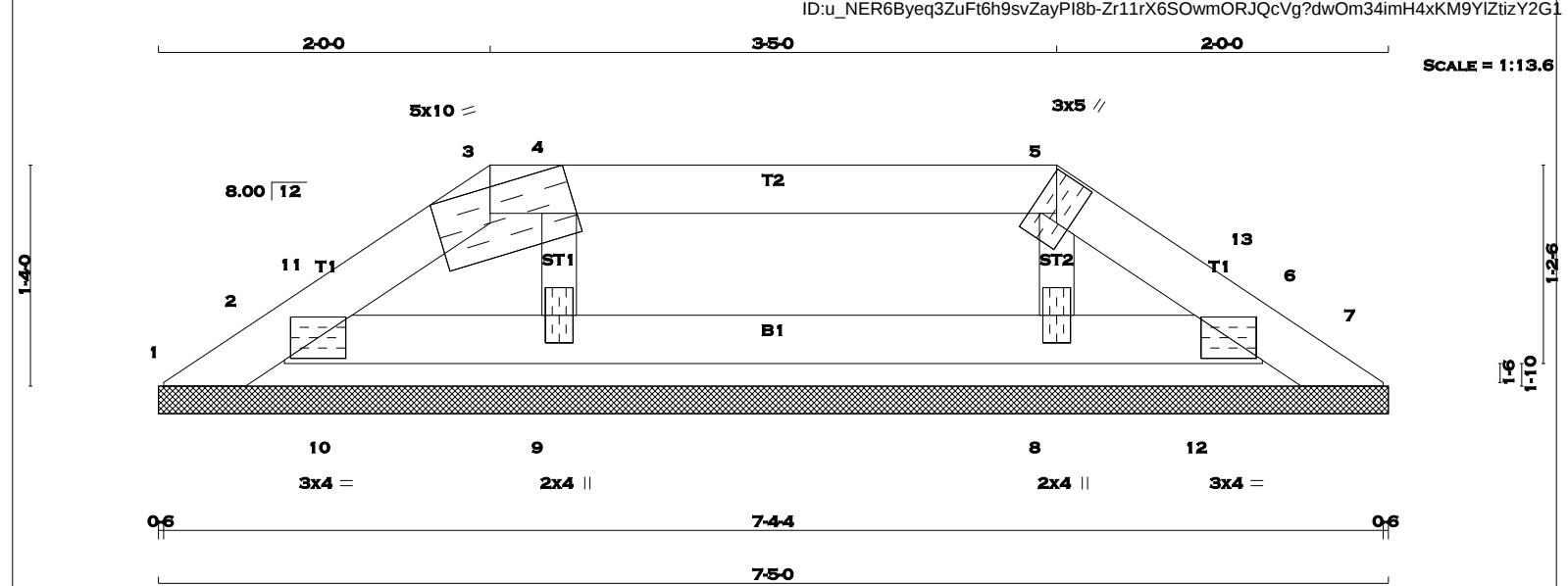


March 23, 2017



READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE 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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TOWN OF MILTON
MAY 11, 2017
17-6230
BUILDING DIVISION



TOTAL WEIGHT = 17 lb									
[M]									
LUMBER N. L. G. A. RULES CHORDS SIZE 1 - 3 2x4 DRY No.2 3 - 5 2x4 DRY No.2 5 - 7 2x4 DRY No.2 2 - 6 2x4 DRY No.2 ALL WEBS 2x3 DRY No.2 ALL GABLE WEBS 2x3 DRY No.2 DRY: SEASONED LUMBER. GABLE STUDS SPACED AT 3-0-0 OC. PLATES (table is in inches) JT TYPE PLATES W LEN Y X 2 TMB1-l MT20 3.0 4.0 3 3 TTW-m MT20 5.0 10.0 Edge 4.00 4 4 TTW+h MT20 3.0 5.0 2.75 1.25 6 TMB1-l MT20 3.0 4.0 8 BMW1+w MT20 2.0 4.0 9 BMW1+w MT20 2.0 4.0 Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD. A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED. DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS. BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): 8 , 9 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: (3) CHORDS MEMB. MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) LC1 MAX. UNBRACED LENGTH FR-TO 1- 2 0 / 2 -94.8 -94.8 0.01 (1) 10.00 2-11 0 / 49 -77.3 -77.3 0.03 (1) 10.00 11- 3 0 / 90 -77.3 -77.3 0.04 (1) 10.00 3- 4 0 / 71 -77.3 -77.3 0.07 (1) 10.00 4- 5 0 / 67 -77.3 -77.3 0.10 (1) 10.00 5-13 0 / 79 -77.3 -77.3 0.02 (1) 10.00 13- 6 0 / 75 -77.3 -77.3 0.02 (1) 10.00 6- 7 0 / 7 -94.8 -94.8 0.01 (1) 10.00 2-10 -67 / 0 -17.5 -17.5 0.00 (1) 6.25 10- 9 -67 / 0 -17.5 -17.5 0.03 (3) 6.25 9- 8 -67 / 0 -17.5 -17.5 0.03 (3) 6.25 8-12 -67 / 0 -17.5 -17.5 0.03 (3) 6.25 12- 6 -67 / 0 -17.5 -17.5 0.01 (1) 6.25 WEBS MEMB. MAX. FACTORED FORCE (LBS) MAX. UNBRACED LENGTH FR-TO 8- 5 -178 / 0 0.03 (1) 9- 4 -262 / 0 0.04 (1) 10-11 0 / 17 0.00 (1) 12-13 -42 / 0 0.00 (1) 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 8.00/12 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 CSI: TC=0.10 (4-5:1) , BC=0.03 (8-9:3) , WB=0.04 (4-9:1) , SSI=0.10 (4-5:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.21 (5) (INPUT = 0.90) JSI METAL= 0.05 (9) (INPUT = 1.00)									

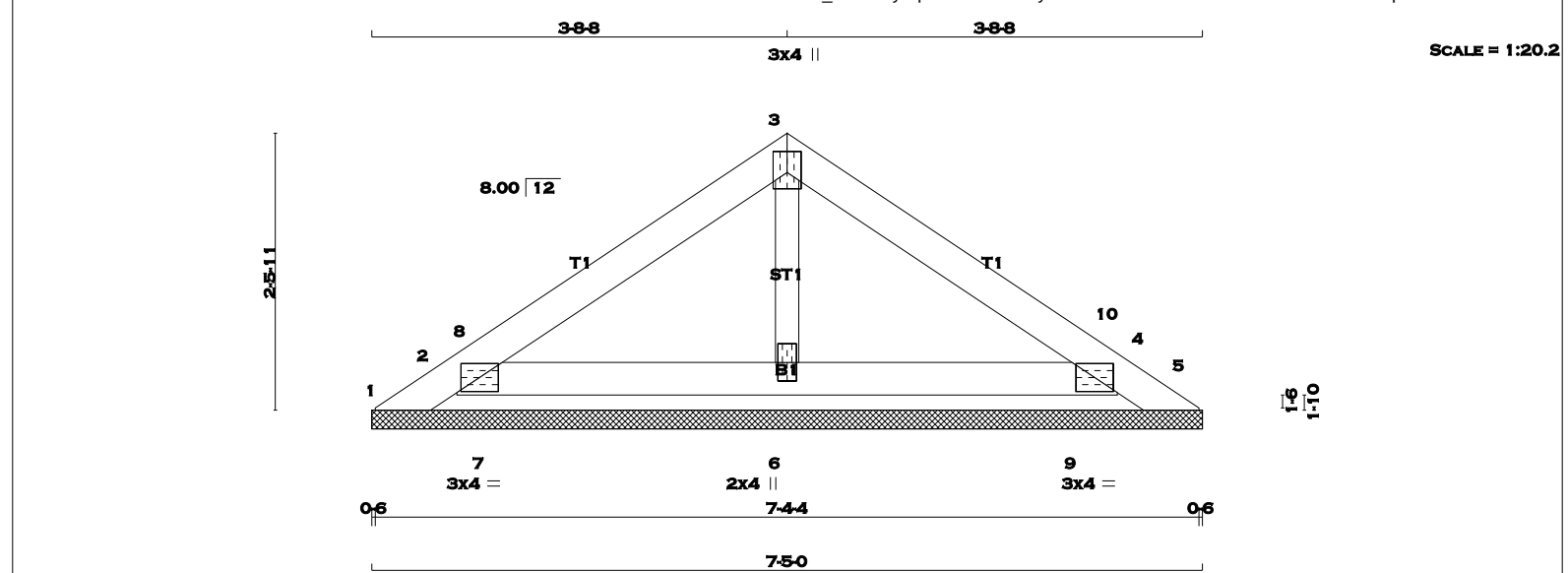


March 23, 2017



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

RECEIVED
TOWN OF MILTON
MAY 11, 2017
17-6230
BUILDING DIVISION



LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

1 - 3

2x4

DRY

No.2

SPF

3 - 5

2x4

DRY

No.2

SPF

2 - 4

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

ALL GABLE WEBS

2x3

DRY

No.2

SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT

3'-0" O.C.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMB1-I	MT20	3.0	4.0		
3	TTW+p	MT20	3.0	4.0	2.25	1.50
4	TMB1-I	MT20	3.0	4.0		
6	BMW1+w	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): 6

PROVIDE ANCHORAGE AT BEARING JOINT 1 FOR 150 LBS. FACTORED UPLIFT

PROVIDE ANCHORAGE AT BEARING JOINT 5 FOR 150 LBS. FACTORED UPLIFT

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (3)

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

CSI: TC=0.08 (1-2:1) , BC=0.05 (6-9:1) , WB=0.02 (3-6:1) , SSI=0.08 (3-8:1)

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

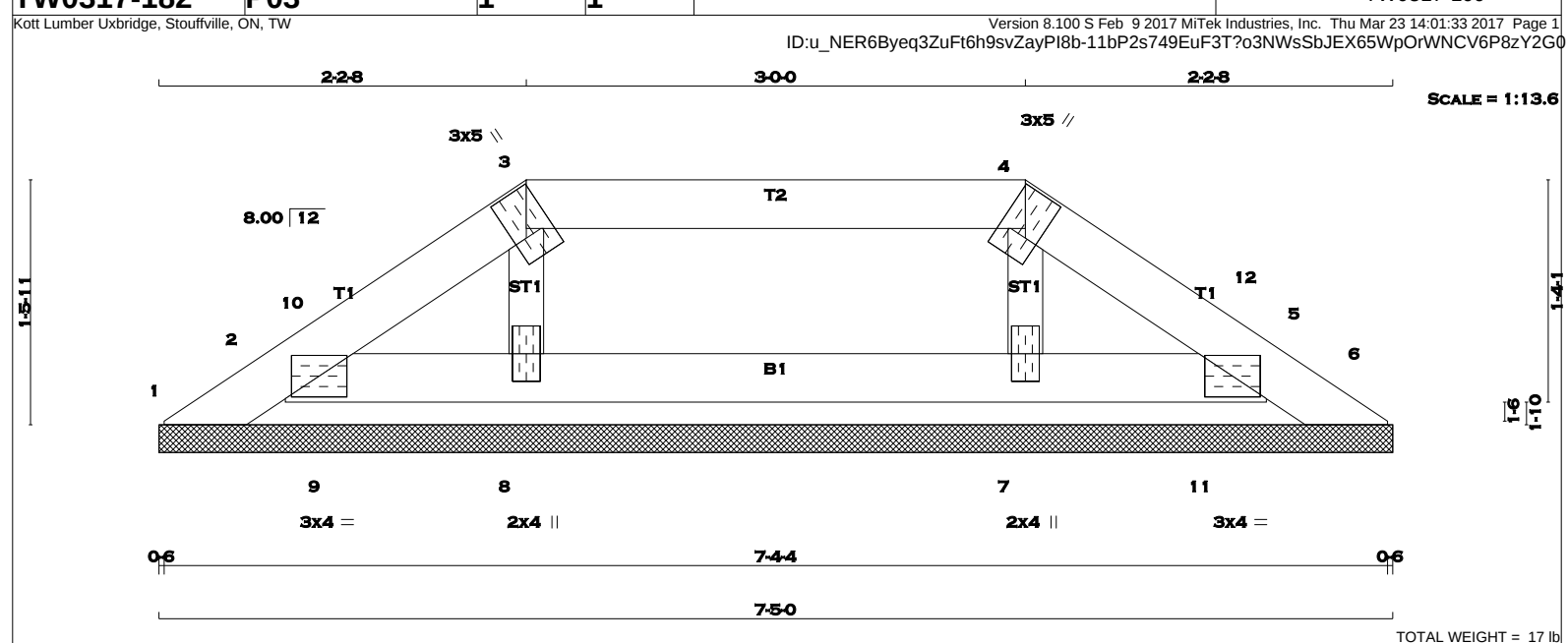
PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MAX	MIN	MAX	MIN
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.22 (2) (INPUT = 0.90)

JSI METAL= 0.05 (4) (INPUT = 1.00)



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 3 2x4 DRY No.2 SPF 3 - 4 2x4 DRY No.2 SPF 4 - 6 2x4 DRY No.2 SPF 2 - 5 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF ALL GABLE WEBS 2x3 DRY No.2 SPF DRY: SEASONED LUMBER. GABLE STUDS SPACED AT 3-0-0 OC.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS. BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): 7 , 8 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: (3) CHORDS MEMB. MAX. FACTORED FORCE (LBS) VERT. LOAD (PLF) LC1 MAX UNBRAC WEBS MEMB. MAX. FACTORED FORCE (LBS) MAX CSI (LC) FR-TO FROM TO LENGTH FR-TO 1- 2 0 / 8 -94.8 -94.8 0.01 (1) 10.00 7- 4 -142 / 0 0.02 (1) 2-10 -38 / 0 -77.3 -77.3 0.01 (1) 6.25 8- 3 -142 / 0 0.02 (1) 10- 3 -28 / 0 -77.3 -77.3 0.01 (1) 6.25 9-10 -40 / 0 0.00 (1) 3- 4 -21 / 0 -77.3 -77.3 0.12 (1) 6.25 11-12 -40 / 0 0.00 (1) 4-12 -28 / 0 -77.3 -77.3 0.01 (1) 6.25 12- 5 -38 / 0 -77.3 -77.3 0.01 (1) 6.25 5- 6 0 / 8 -94.8 -94.8 0.01 (1) 10.00 2- 9 0 / 21 -17.5 -17.5 0.02 (1) 10.00 9- 8 0 / 21 -17.5 -17.5 0.03 (3) 10.00 8- 7 0 / 21 -17.5 -17.5 0.03 (3) 10.00 7-11 0 / 21 -17.5 -17.5 0.03 (3) 10.00 11- 5 0 / 21 -17.5 -17.5 0.02 (1) 10.00
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PLATES (table is in inches)

JT

TYPE

PLATES

W

LEN

Y

X

2

TMB1-l

MT20

3.0

4.0

3

TTW+h

MT20

3.0

5.0

2.75

1.25

4

TTW+h

MT20

3.0

5.0

2.75

1.25

5

TMB1-l

MT20

3.0

4.0

7

BMW1+w

MT20

2.0

4.0

8

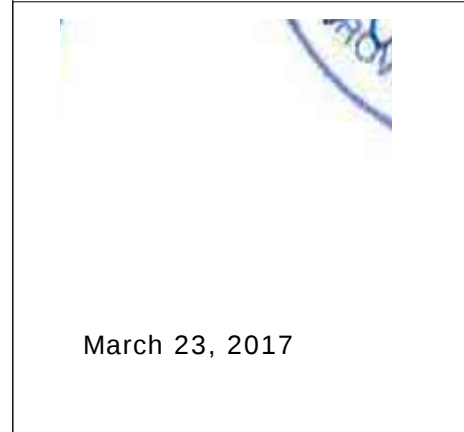
BMW1+w

MT20

2.0

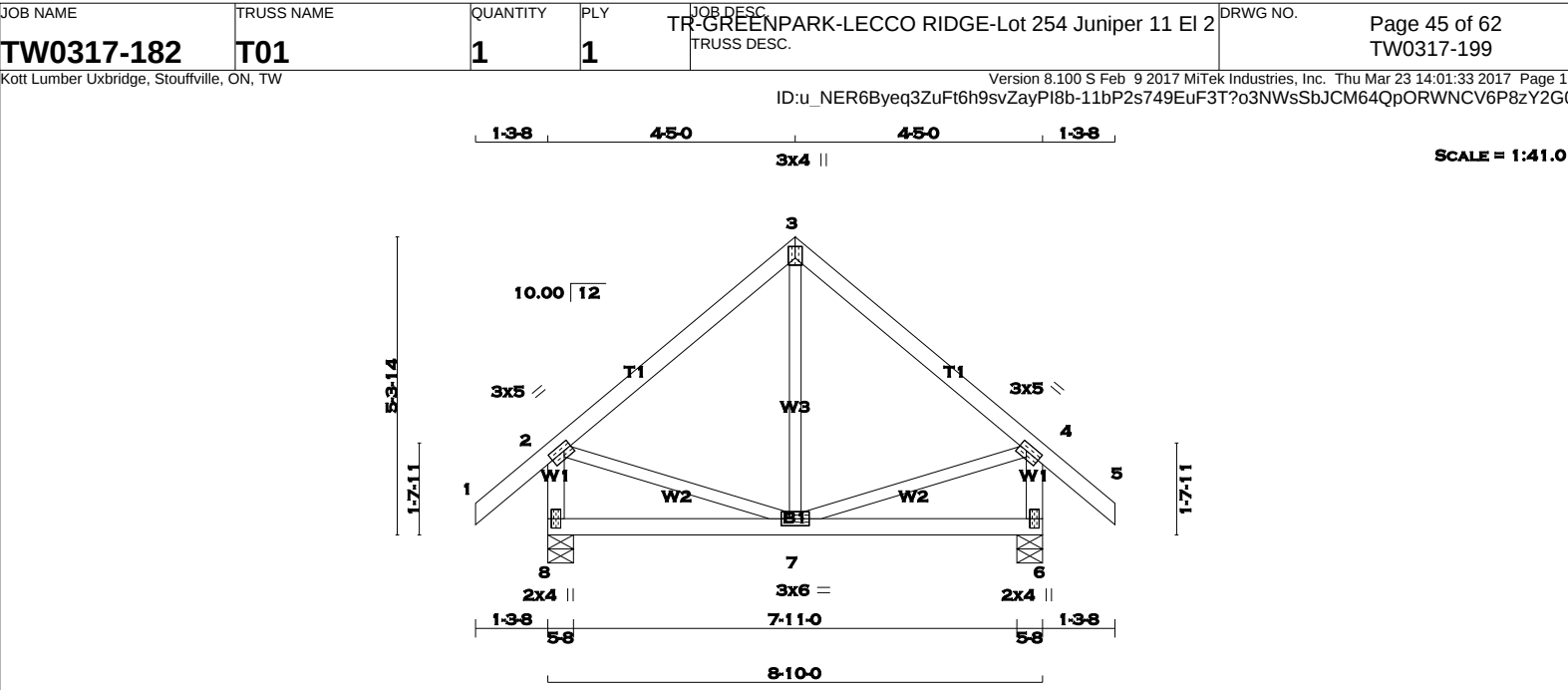
4.0

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

 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 8.00/12 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 CSI: TC=0.12 (3-4:1) , BC=0.03 (7-8:3) , WB=0.02 (3-8:1) , SSI=0.09 (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= 0.18 (3) (INPUT = 0.90) JSI METAL= 0.03 (8) (INPUT = 1.00) | | | | TOTAL WEIGHT = 17 lb [M] | | | |

READ ALL NOTES ON THIS PAGE AND ON THE
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RECEIVED
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 MAY 11, 2017
 17-6230
 BUILDING DIVISION



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-t	MT20	3.0	5.0	1.50	1.75
3	TTW+p	MT20	3.0	4.0	2.50	1.50
4	TMVW-t	MT20	3.0	5.0	1.50	1.75
6	BMV1+p	MT20	2.0	4.0		
7	BMVWW-t	MT20	3.0	6.0		
8	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	FACTORED GROSS REACTION HORZ	INPUT BRG DOWN	REQRD BRG UPLIFT
8	526	0	526	0
6	526	0	526	0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN. SNOW	MAX/MIN. LIVE	MAX/MIN. PERM. LIVE	MAX/MIN. WIND	MAX/MIN. DEAD	MAX/MIN. SOIL
8	367	270 / 0	0 / 0	0 / 0	0 / 0	97 / 0	0 / 0
6	367	270 / 0	0 / 0	0 / 0	0 / 0	97 / 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: (3)

FR-TO	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX (LC)	MAX. UNBRAC LENGTH	MEMB. FORCE (LBS)	FACTORED MAX (LC)
1-2	0 / 34	-77.3	-77.3 0.11 (1)	10.00	7-3	-19 / 70 0.02 (3)
2-3	-252 / 0	-77.3	-77.3 0.19 (1)	6.25	2-7	0 / 202 0.05 (1)
3-4	-252 / 0	-77.3	-77.3 0.19 (1)	6.25	7-4	0 / 202 0.05 (1)
4-5	0 / 34	-77.3	-77.3 0.11 (1)	10.00		
8-2	-496 / 0	0.0	0.0 0.05 (1)	7.81		
6-4	-496 / 0	0.0	0.0 0.05 (1)	7.81		
8-7	0 / 0	-17.5	-17.5 0.10 (3)	10.00		
7-6	0 / 0	-17.5	-17.5 0.10 (3)	10.00		

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

(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 (0.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.29")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.19 (2-3:1) , BC=0.10 (6-7:3) , WB=0.05 (4-7:1) , SSI=0.10 (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.

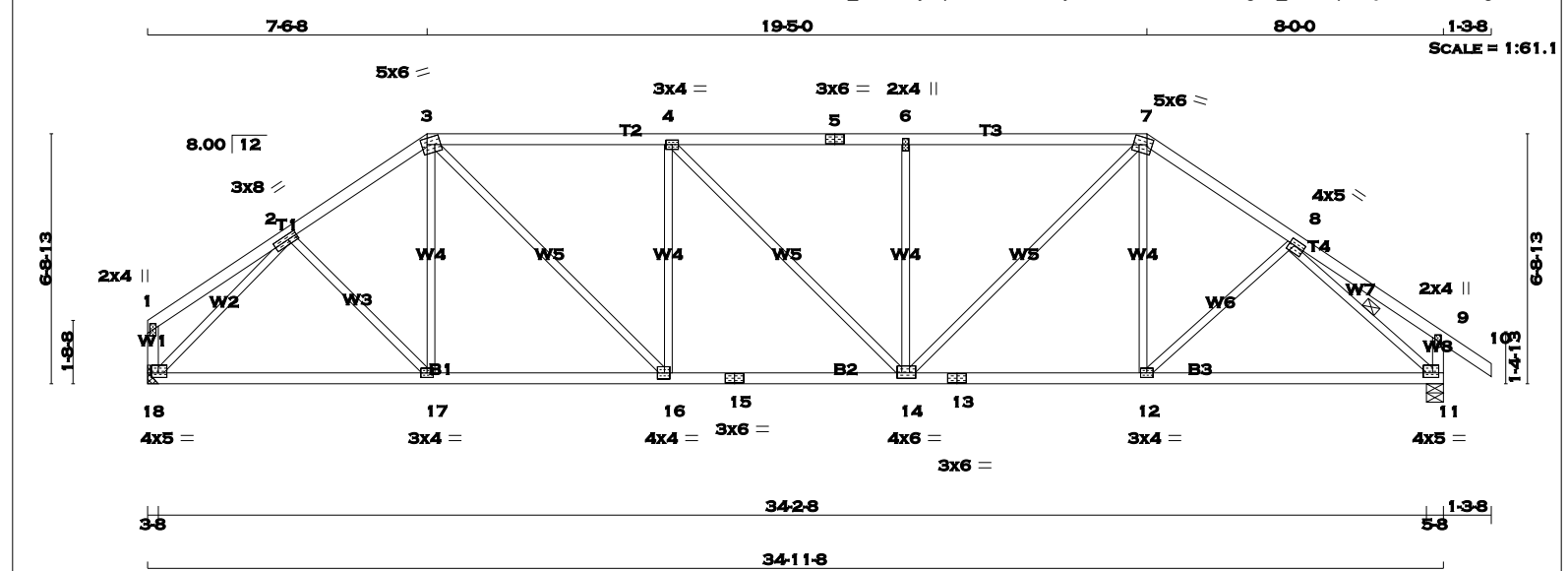
JSI GRIP= 0.44 (2) (INPUT = 0.90)
JSI METAL= 0.13 (2) (INPUT = 1.00)



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RECEIVED
TOWN OF MILTON
MAY 11, 2017
17-6230
BUILDING DIVISION

March 23, 2017



TOTAL WEIGHT = 146 lb [M]

LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	1 - 3	2x4	DRY	No.2
3 - 5	2x4	DRY	No.2	3 - 5	2x4	DRY	No.2
5 - 7	2x4	DRY	No.2	5 - 7	2x4	DRY	No.2
7 - 10	2x4	DRY	No.2	7 - 10	2x4	DRY	No.2
18 - 1	2x4	DRY	No.2	18 - 1	2x4	DRY	No.2
11 - 9	2x4	DRY	No.2	11 - 9	2x4	DRY	No.2
18 - 15	2x4	DRY	No.2	18 - 15	2x4	DRY	No.2
15 - 13	2x4	DRY	No.2	15 - 13	2x4	DRY	No.2
13 - 11	2x4	DRY	No.2	13 - 11	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2	ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMV+p	MT20	2.0	4.0		
2	TMWW-t	MT20	3.0	8.0	1.50	3.25
3	TTWW-m	MT20	5.0	6.0	2.00	1.75
4	TMWW-t	MT20	3.0	4.0		
5	TS-t	MT20	3.0	6.0		
6	TMW+w	MT20	2.0	4.0		
7	TTWW-m	MT20	5.0	6.0	2.00	1.75
8	TMWW-t	MT20	4.0	5.0	1.75	1.75
9	TMV+p	MT20	2.0	4.0		
11	BMVW1-t	MT20	4.0	5.0	1.50	2.00
12	BMWW-t	MT20	3.0	4.0		
13	BS-t	MT20	3.0	6.0		
14	BMWWW-t	MT20	4.0	6.0	1.75	1.50
15	BS-t	MT20	3.0	6.0		
16	BMWW-t	MT20	4.0	4.0	2.00	1.75
17	BMWW-t	MT20	3.0	4.0		
18	BMVW1-t	MT20	4.0	5.0	1.50	2.25

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.



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		
18	1658	0	1658	0	0	HANGER BY OTHERS	MIN. SEAT SIZE: 3-8		
11	1764	0	1764	0	0	5-8	5-8		

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
18	1164	814 / 0	0 / 0	0 / 0	0 / 0	350 / 0	0 / 0
11	1236	878 / 0	0 / 0	0 / 0	0 / 0	358 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.94 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 8-11. DBS = 6-0-0 . CBF = 81 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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: (3)									
C H O R D S					W E B S				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)		

FR-TO	FROM	TO	FR-TO	FROM	TO
1-2	0 / 17	-77.3 -77.3 0.16 (1)	10.00	2-17	0 / 144
2-3	-1872 / 0	-77.3 -77.3 0.21 (1)	4.71	17-3	0 / 94
3-4	-2218 / 0	-77.3 -77.3 0.62 (1)	3.96	3-16	0 / 952
4-5	-2238 / 0	-77.3 -77.3 0.62 (1)	3.94	16-4	-563 / 0
5-6	-2238 / 0	-77.3 -77.3 0.62 (1)	3.94	4-14	0 / 28
6-7	-2238 / 0	-77.3 -77.3 0.62 (1)	3.95	14-6	-541 / 0
7-8	-1952 / 0	-77.3 -77.3 0.25 (1)	4.60	14-7	0 / 886
8-9	0 / 18	-77.3 -77.3 0.18 (1)	10.00	12-7	0 / 123
9-10	0 / 29	-77.3 -77.3 0.10 (1)	10.00	12-8	0 / 67
18-1	-115 / 0	0.0 0.0 0.01 (1)	7.81	18-2	-2070 / 0
11-9	-228 / 0	0.0 0.0 0.02 (1)	7.81	8-11	-2161 / 0
18-17	0 / 1439	-17.5 -17.5 0.36 (1)	10.00		
17-16	0 / 1541	-17.5 -17.5 0.37 (1)	10.00		
16-15	0 / 2218	-17.5 -17.5 0.42 (1)	10.00		
15-14	0 / 2218	-17.5 -17.5 0.42 (1)	10.00		
14-13	0 / 1608	-17.5 -17.5 0.40 (1)	10.00		
13-12	0 / 1608	-17.5 -17.5 0.40 (1)	10.00		
12-11	0 / 1577	-17.5 -17.5 0.39 (1)	10.00		

[M]

<u>DESIGN CRITERIA</u>				
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
<u>SPACING = 24.0 IN. C/C</u>				

SPACING = 24.0 IN./C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 8.00/12

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 (1.17")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.23")

CSI: TC=0.62 (3-4:1) , BC=0.42 (14-16:1) , WB=0.98 (2-18:1) , SSI=0.23 (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
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

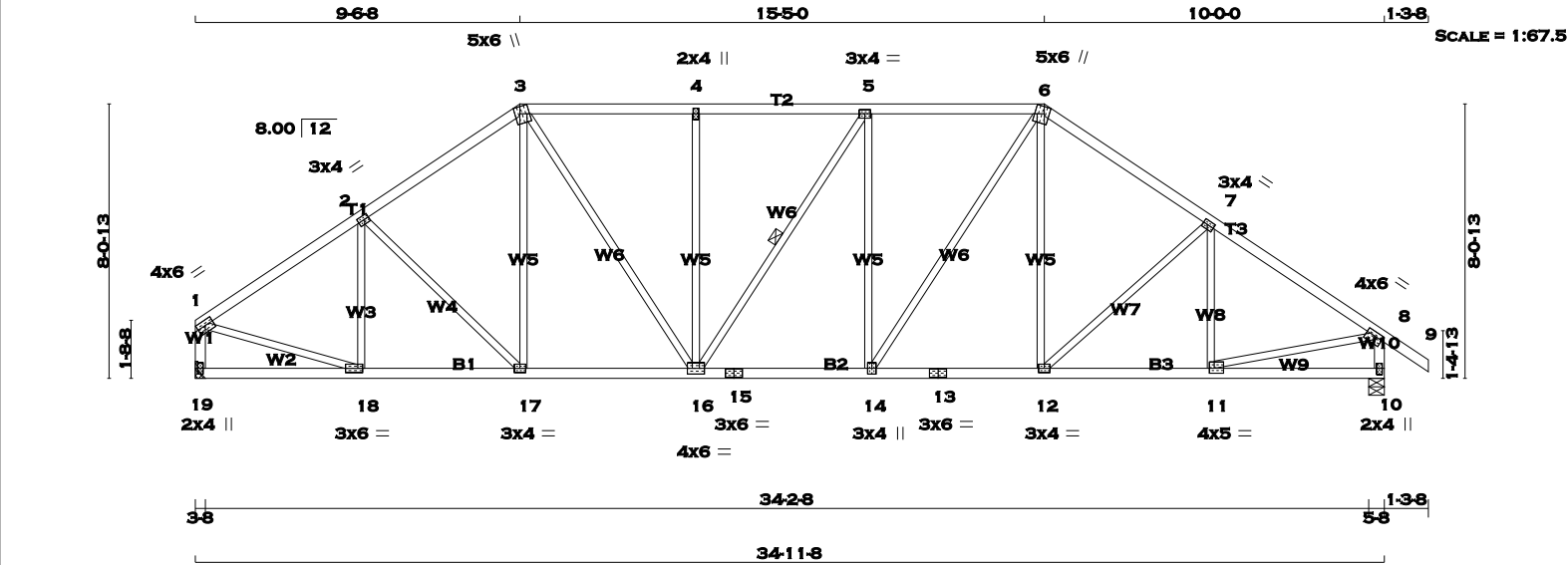
JSI GRIP= 0.90 (8) (INPUT = 0.90)
JSI METAL= 0.64 (8) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE 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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BUILDING DIVISION

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TOTAL WEIGHT = 160 lb
[M][F]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 3	2x4	DRY	No.2	SPF
3 - 6	2x4	DRY	No.2	SPF
6 - 9	2x4	DRY	No.2	SPF
19 - 1	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
19 - 15	2x4	DRY	No.2	SPF
15 - 13	2x4	DRY	No.2	SPF
13 - 10	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	X
1	TMVW-t	MT20	4.0	6.0	1.75 Edge
2	TMWW-t	MT20	3.0	4.0	1.50 1.50
3	TTWW+m	MT20	5.0	6.0	Edge 1.75
4	TMW+w	MT20	2.0	4.0	
5	TMWW-t	MT20	3.0	4.0	
6	TTWW+m	MT20	5.0	6.0	Edge 1.75
7	TMWW-t	MT20	3.0	4.0	1.50 1.50
8	TMVW-t	MT20	4.0	6.0	1.50 3.00
10	BMV1+p	MT20	2.0	4.0	2.25 1.00
11	BMWW-t	MT20	4.0	5.0	1.75 1.75
12	BMWW-t	MT20	3.0	4.0	
13	BS-t	MT20	3.0	6.0	
14	BMWW+t	MT20	3.0	4.0	
15	BS-t	MT20	3.0	6.0	
16	BMWWW-t	MT20	4.0	6.0	
17	BMWW-t	MT20	3.0	4.0	
18	BMWW-t	MT20	3.0	6.0	1.50 1.75
19	BMV1+p	MT20	2.0	4.0	

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.



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		1658	0	1658	0	0	HANGER BY OTHERS		
10		1764	0	1764	0	0	MIN. SEAT SIZE: 3-8		
UNFACTORED REACTIONS									
JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS							
19		1164	814 / 0	0 / 0		0 / 0	0 / 0	350 / 0	0 / 0
10		1236	878 / 0	0 / 0		0 / 0	0 / 0	358 / 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 = 4.53 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-16. DBS = 20-0-0. CBF = 4 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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: (3)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	-1840 / 0	-77.3 -77.3	0.27 (1)	4.70	18-2	-353 / 0	0.13 (1)
2-3	-1812 / 0	-77.3 -77.3	0.27 (1)	4.73	2-17	-91 / 0	0.07 (1)
3-4	-1845 / 0	-77.3 -77.3	0.28 (1)	4.68	17-3	0 / 153	0.04 (3)
4-5	-1845 / 0	-77.3 -77.3	0.26 (1)	4.71	3-16	0 / 645	0.15 (1)
5-6	-1860 / 0	-77.3 -77.3	0.28 (1)	4.66	16-4	-427 / 0	0.53 (1)
6-7	-1864 / 0	-77.3 -77.3	0.30 (1)	4.64	16-5	-28 / 0	0.02 (1)
7-8	-1981 / 0	-77.3 -77.3	0.31 (1)	4.53	14-5	-406 / 0	0.51 (1)
8-9	0 / 29	-77.3 -77.3	0.10 (1)	10.00	14-6	0 / 595	0.13 (1)
19-1	-1621 / 0	0.0 0.0	0.17 (1)	6.50	12-6	0 / 217	0.05 (1)
10-8	-1725 / 0	0.0 0.0	0.18 (1)	6.34	12-7	-190 / 0	0.16 (1)
19-18	0 / 0	-17.5 -17.5	0.09 (3)	10.00	11-7	-260 / 6	0.09 (1)
18-17	0 / 1551	-17.5 -17.5	0.30 (1)	10.00	11-8	0 / 1612	0.36 (1)
17-16	0 / 1487	-17.5 -17.5	0.29 (1)	10.00		0 / 1706	0.38 (1)
16-15	0 / 1861	-17.5 -17.5	0.34 (1)	10.00			
15-14	0 / 1861	-17.5 -17.5	0.34 (1)	10.00			
14-13	0 / 1530	-17.5 -17.5	0.30 (1)	10.00			
13-12	0 / 1530	-17.5 -17.5	0.30 (1)	10.00			
12-11	0 / 1669	-17.5 -17.5	0.32 (1)	10.00			
11-10	0 / 0	-17.5 -17.5	0.10 (3)	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 8.00/12

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 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.17")

CSI: TC=0.31 (7-8:1), BC=0.34 (14-16:1), WB=0.53 (4-16:1), SSI=0.19 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

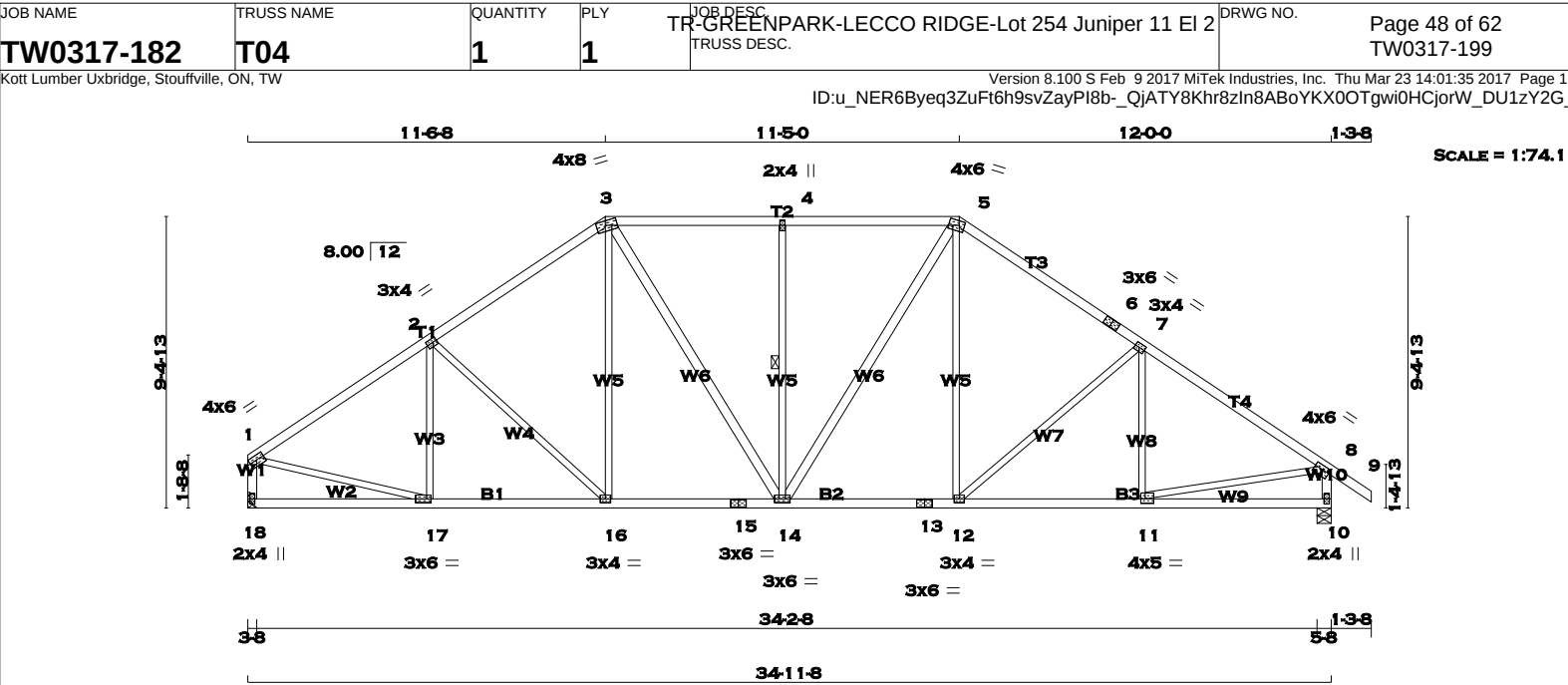
JSI GRIP= 0.90 (18) (INPUT = 0.90)
JSI METAL= 0.54 (8) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE 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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LUMBER
N. L. G. A. RULES
CHORDS SIZE

1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
5 - 6	2x4	DRY	No.2	SPF
6 - 9	2x4	DRY	No.2	SPF
18 - 1	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
18 - 15	2x4	DRY	No.2	SPF
15 - 13	2x4	DRY	No.2	SPF
13 - 10	2x4	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT
3 - 14 2x4 DRY No.2 SPF
14 - 5 2x4 DRY No.2 SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	4.0	6.0	1.75	Edge
2	TMWW-t	MT20	3.0	4.0	1.50	1.50
3	TTWW-m	MT20	4.0	8.0	1.75	3.50
4	TMW-w	MT20	2.0	4.0		
5	TTWW-m	MT20	4.0	6.0	1.75	2.00
6	TS-t	MT20	3.0	6.0		
7	TMWW-t	MT20	3.0	4.0	1.50	1.50
8	TMVW-t	MT20	4.0	6.0	1.50	3.00
10	BMV1+p	MT20	2.0	4.0		
11	BMWW-t	MT20	4.0	5.0	1.75	1.75
12	BS-t	MT20	3.0	4.0		
13	BS-t	MT20	3.0	6.0		
14	BMWW-t	MT20	3.0	6.0		
15	BS-t	MT20	3.0	6.0		
16	BMWW-t	MT20	3.0	4.0		
17	BMWW-t	MT20	3.0	6.0	1.50	1.75
18	BMV1+p	MT20	2.0	4.0		

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.



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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT DOWN	REQRD BRG
JT	VERT	HORZ	UPLIFT	IN-SX
18	1658	0	0	HANGER BY OTHERS
10	1764	0	0	MIN. SEAT SIZE: 3-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS
	COMBINED	SNOW	LIVE PERM.LIVE WIND DEAD SOIL
18	1164	814 / 0	0 / 0 0 / 0 350 / 0 0 / 0
10	1236	878 / 0	0 / 0 0 / 0 358 / 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 = 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-14. DBS = 20-0-0. CBF = 67 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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: (3)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)
FR-TO		FROM TO			FR-TO		
1-2	-1889 / 0	-77.3 -77.3	0.41 (1)	4.50	17-2	-265 / 18	0.13 (1)
2-3	-1729 / 0	-77.3 -77.3	0.39 (1)	4.68	2-16	-250 / 0	0.32 (1)
3-4	-1628 / 0	-77.3 -77.3	0.36 (1)	4.80	16-3	0 / 268	0.06 (1)
4-5	-1628 / 0	-77.3 -77.3	0.36 (1)	4.80	3-14	0 / 402	0.06 (1)
5-6	-1762 / 0	-77.3 -77.3	0.42 (1)	4.60	14-4	-540 / 0	0.31 (1)
6-7	-1762 / 0	-77.3 -77.3	0.42 (1)	4.60	14-5	0 / 350	0.06 (1)
7-8	-2010 / 0	-77.3 -77.3	0.46 (1)	4.33	12-5	0 / 323	0.07 (1)
8-9	0 / 29	-77.3 -77.3	0.10 (1)	10.00	12-7	-341 / 0	0.44 (1)
18-1	-1615 / 0	0.0 0.0	0.17 (1)	6.51	11-7	-185 / 46	0.08 (1)
10-8	-1719 / 0	0.0 0.0	0.18 (1)	6.35	1-17	0 / 1640	0.37 (1)
					11-8	0 / 1724	0.39 (1)
18-17	0 / 0	-17.5 -17.5	0.14 (3)	10.00			
17-16	0 / 1596	-17.5 -17.5	0.32 (1)	10.00			
16-15	0 / 1415	-17.5 -17.5	0.29 (1)	10.00			
15-14	0 / 1415	-17.5 -17.5	0.29 (1)	10.00			
14-13	0 / 1442	-17.5 -17.5	0.29 (1)	10.00			
13-12	0 / 1442	-17.5 -17.5	0.29 (1)	10.00			
12-11	0 / 1697	-17.5 -17.5	0.34 (1)	10.00			
11-10	0 / 0	-17.5 -17.5	0.15 (3)	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 8.00/12

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 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CSI: TC=0.46 (7-8:1), BC=0.34 (11-12:1), WB=0.44 (7-12:1), SSI=0.21 (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
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

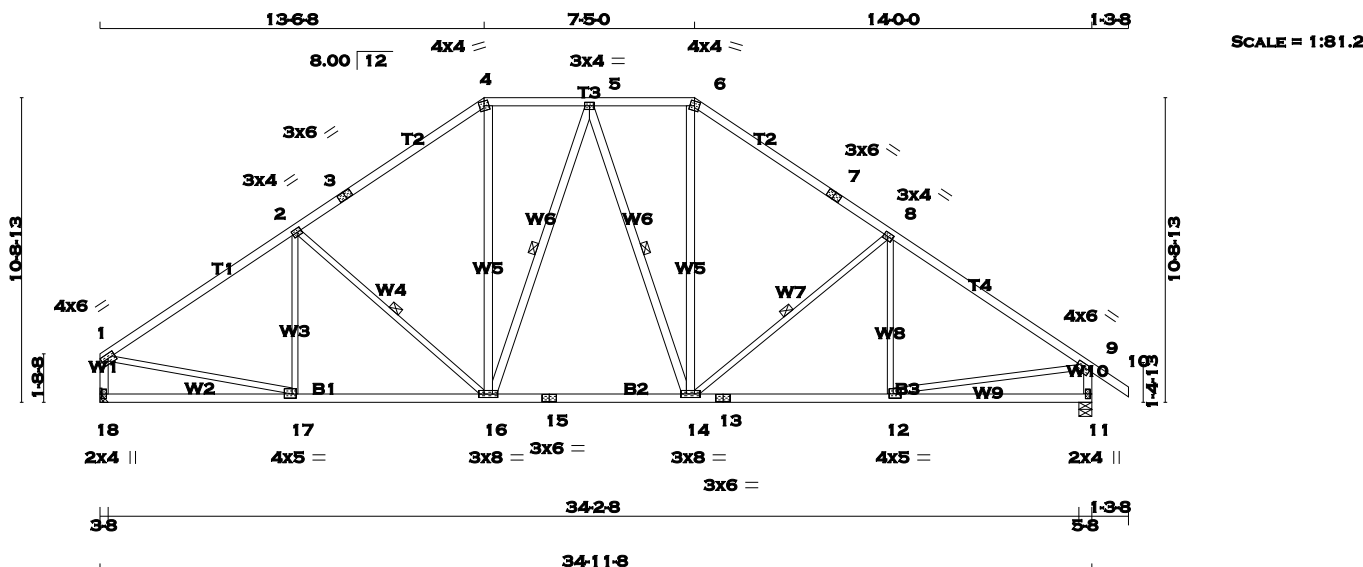
JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.55 (8) (INPUT = 1.00)



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

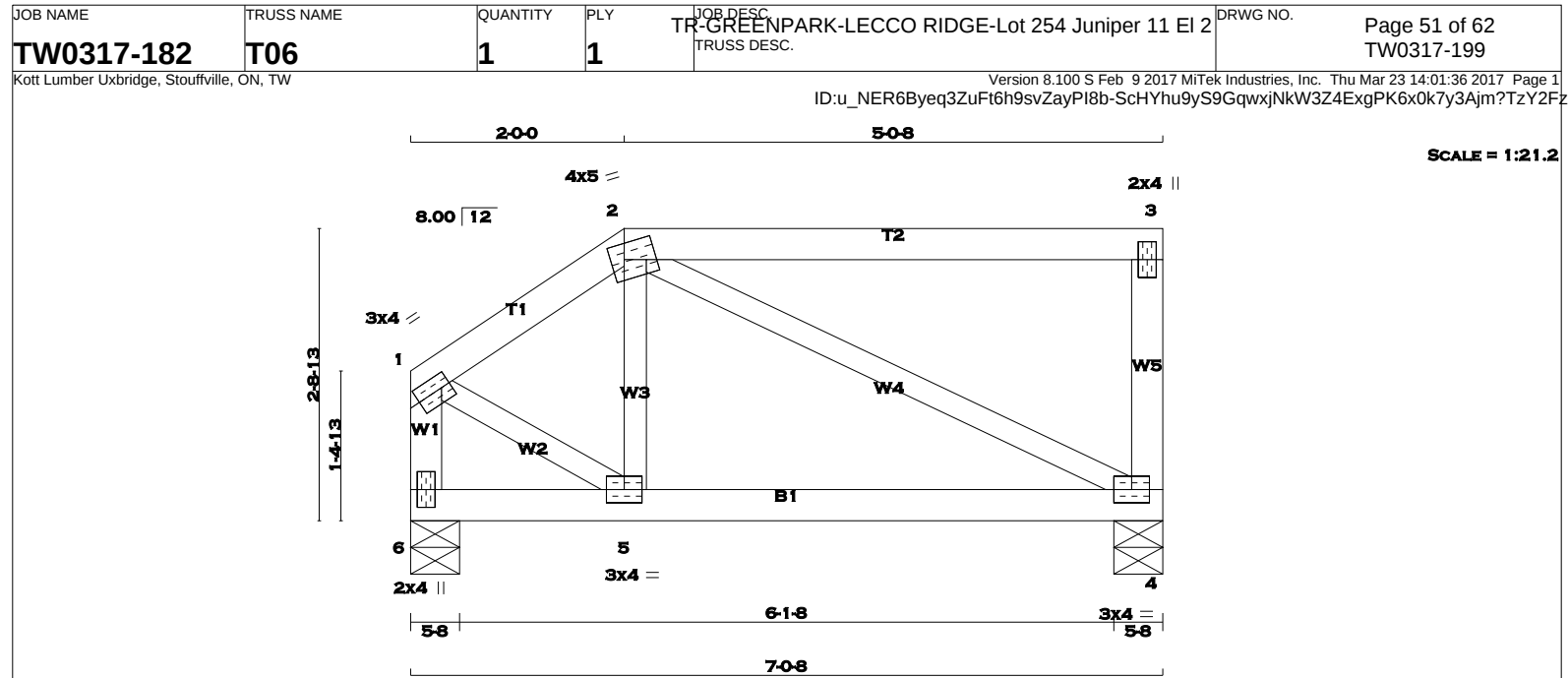
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March 23, 2017



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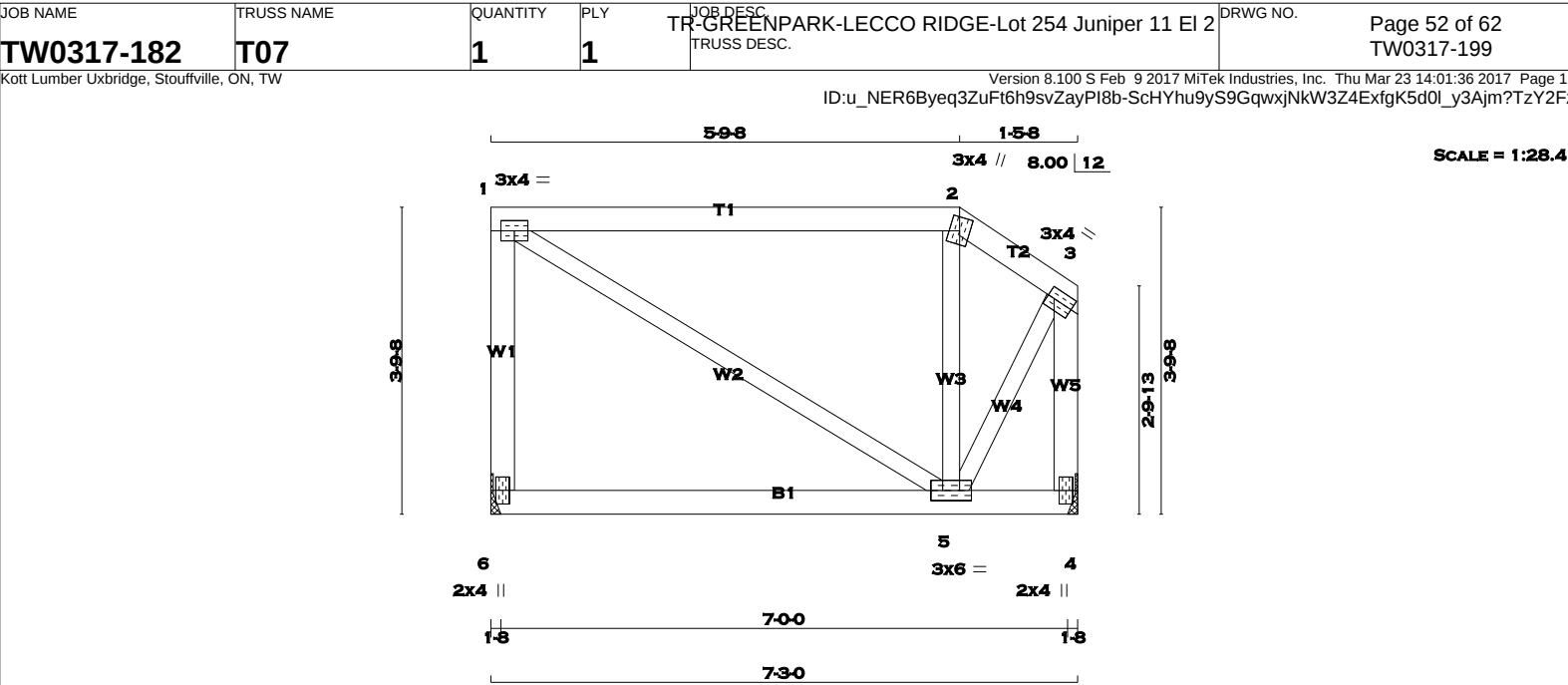
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TOTAL WEIGHT = 28 lb										[M]
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. SPF 1 - 2 2x4 DRY No.2 SPF 2 - 3 2x4 DRY No.2 SPF 4 - 3 2x4 DRY No.2 SPF 6 - 1 2x4 DRY No.2 SPF 6 - 4 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.										
PLATES (table is in inches) JT TYPE PLATES W LEN Y X 1 TMVW-t MT20 3.0 4.0 1.50 1.00 2 TTWW-m MT20 4.0 5.0 1.75 1.50 3 TMV+p MT20 2.0 4.0 4 BMVW1-t MT20 3.0 4.0 5 BMWW-t MT20 3.0 4.0 6 BMV1+p MT20 2.0 4.0 A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.										
 READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.										
March 23, 2017										

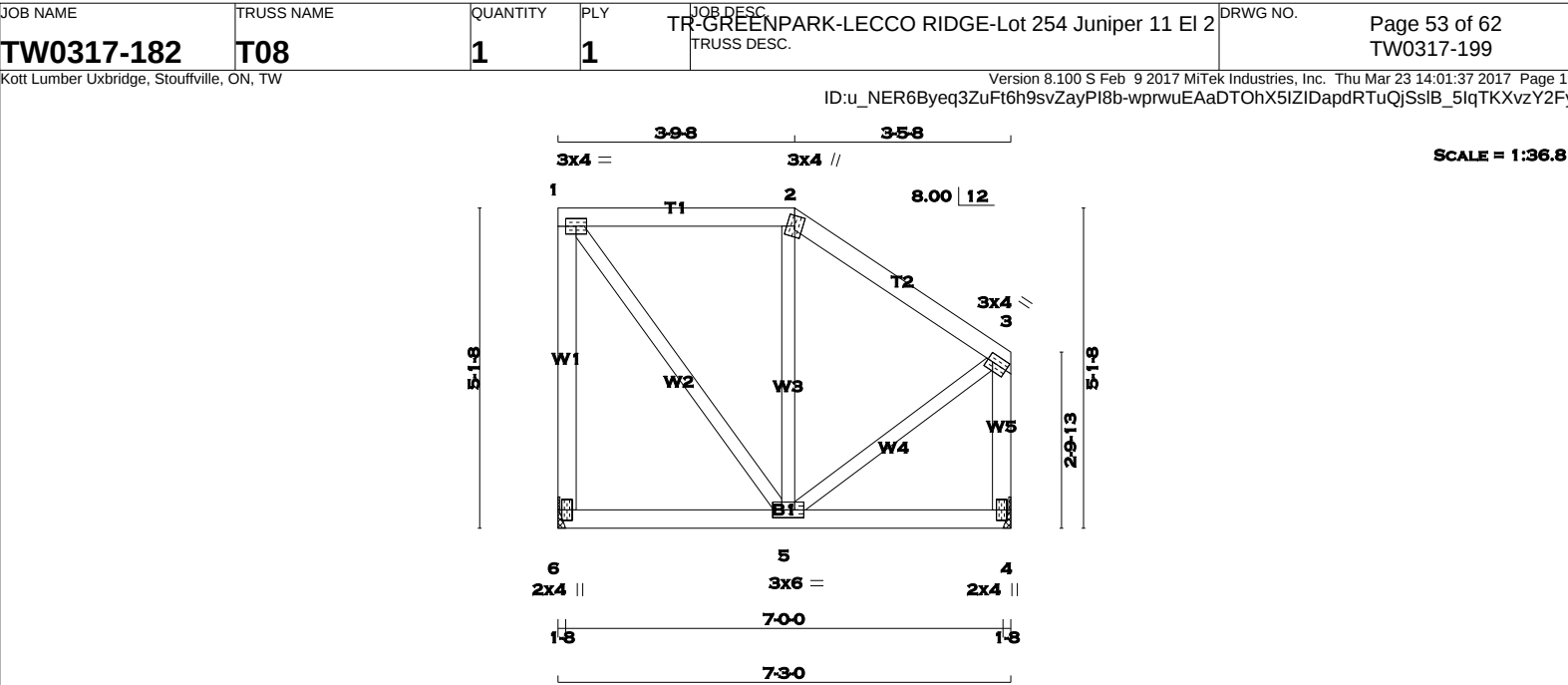
DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><th></th><th>FACTORED GROSS REACTION</th><th>MAXIMUM FACTORED GROSS REACTION</th><th>INPUT BRG</th><th>REQRD BRG</th></tr><tr><th>JT</th><th>VERT</th><th>HORZ</th><th>DOWN</th><th>HORZ</th><th>UPLIFT</th><th>IN-SX</th><th>IN-SX</th></tr><tr><td>4</td><td>334</td><td>0</td><td>334</td><td>0</td><td>0</td><td>5-8</td><td>5-8</td></tr><tr><td>6</td><td>334</td><td>0</td><td>334</td><td>0</td><td>0</td><td>5-8</td><td>5-8</td></tr></table> UNFACTORED REACTIONS <table><tr><th>JT</th><th>1ST LCASE COMBINED</th><th>MAX/MIN. SNOW</th><th>MAX/MIN. LIVE</th><th>MAX/MIN. PERM. LIVE</th><th>WIND</th><th>DEAD</th><th>SOIL</th></tr><tr><td>4</td><td>234</td><td>164 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>70 / 0</td><td>0 / 0</td></tr><tr><td>6</td><td>234</td><td>164 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>70 / 0</td><td>0 / 0</td></tr></table> BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 4, 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: (3) <table><tr><th colspan="4">CHORDS</th><th colspan="4">WEBS</th></tr><tr><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>FACTORED VERT. LOAD (PLF)</th><th>MAX. LC1 (LC)</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>MAX. LC1 (LC)</th><th>UNBRACED LENGTH</th></tr><tr><td>FR-TO</td><td></td><td>FROM</td><td>TO</td><td>FR-TO</td><td></td><td></td><td></td></tr><tr><td>1-2</td><td>-258 / 0</td><td>-77.3</td><td>-77.3 0.05 (1)</td><td>6.25</td><td>5-2</td><td>-25 / 59</td><td>0.02 (3)</td></tr><tr><td>2-3</td><td>0 / 0</td><td>-77.3</td><td>-77.3 0.33 (1)</td><td>10.00</td><td>2-4</td><td>-237 / 0</td><td>0.11 (1)</td></tr><tr><td>4-3</td><td>-195 / 0</td><td>0.0</td><td>0.0 0.03 (1)</td><td>7.81</td><td>1-5</td><td>0 / 241</td><td>0.05 (1)</td></tr><tr><td>6-1</td><td>-332 / 0</td><td>0.0</td><td>0.0 0.03 (1)</td><td>7.81</td><td></td><td></td><td></td></tr><tr><td>6-5</td><td>0 / 0</td><td>-17.5</td><td>-17.5 0.09 (3)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>5-4</td><td>0 / 213</td><td>-17.5</td><td>-17.5 0.11 (3)</td><td>10.00</td><td></td><td></td><td></td></tr></table>												FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	4	334	0	334	0	0	5-8	5-8	6	334	0	334	0	0	5-8	5-8	JT	1ST LCASE COMBINED	MAX/MIN. SNOW	MAX/MIN. LIVE	MAX/MIN. PERM. LIVE	WIND	DEAD	SOIL	4	234	164 / 0	0 / 0	0 / 0	0 / 0	70 / 0	0 / 0	6	234	164 / 0	0 / 0	0 / 0	0 / 0	70 / 0	0 / 0	CHORDS				WEBS				MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	UNBRACED LENGTH	FR-TO		FROM	TO	FR-TO				1-2	-258 / 0	-77.3	-77.3 0.05 (1)	6.25	5-2	-25 / 59	0.02 (3)	2-3	0 / 0	-77.3	-77.3 0.33 (1)	10.00	2-4	-237 / 0	0.11 (1)	4-3	-195 / 0	0.0	0.0 0.03 (1)	7.81	1-5	0 / 241	0.05 (1)	6-1	-332 / 0	0.0	0.0 0.03 (1)	7.81				6-5	0 / 0	-17.5	-17.5 0.09 (3)	10.00				5-4	0 / 213	-17.5	-17.5 0.11 (3)	10.00			
	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG																																																																																																																																			
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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 8.00/12 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 (0.23") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00") ALLOWABLE DEFL.(TL)= L/360 (0.23") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02") CSI: TC=0.33 (2-3:1) , BC=0.11 (4-5:3) , WB=0.11 (2-4:1) , SSI=0.15 (2-3:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.79 (1) (INPUT = 0.90) JSI METAL= 0.11 (1) (INPUT = 1.00)																																																																																																																																							

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LUMBER										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										TOTAL WEIGHT = 33 lb									
N. L. G. A. RULES										BEARINGS										[M]									
CHORDS SIZE																				DESIGN CRITERIA									
LUMBER																				SPECIFIED LOADS:									
DESCR.																				TOP CH. LL = 23.3 PSF									
6 - 1 2x4 DRY No.2 SPF																				DL = 3.0 PSF									
1 - 2 2x4 DRY No.2 SPF																				BOT CH. LL = 0.0 PSF									
2 - 3 2x4 DRY No.2 SPF																				DL = 7.0 PSF									
4 - 3 2x4 DRY No.2 SPF																				TOTAL LOAD = 33.3 PSF									
6 - 4 2x4 DRY No.2 SPF																				SPACING = 24.0 IN. C/C									
ALL WEBS 2x3 DRY No.2 SPF																				LOADING IN FLAT SECTION BASED ON A SLOPE OF 8.00/12									
EXCEPT																				THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010									
DRY: SEASONED LUMBER.																				THIS DESIGN COMPLIES WITH:									
																				- PART 9 OF OBC 2012, BCBC 2012, ABC 2014									
																				- CSA 086-09									
																				- TPIC 2011									
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																				ALLOWABLE DEFL.(LL)= L/360 (0.24")									
																				CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")									
																				ALLOWABLE DEFL.(TL)= L/360 (0.24")									
																				CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")									
																				CSI: TC=0.45 (1-2:1), BC=0.13 (4-5:3), WB=0.06 (3-5:1), SSI=0.17 (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= 0.72 (3) (INPUT = 0.90)									
																				JSI METAL= 0.12 (3) (INPUT = 1.00)									

March 23, 2017



LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
6 - 1	2x4	DRY	No.2	SPF
1 - 2	2x4	DRY	No.2	SPF
2 - 3	2x4	DRY	No.2	SPF
4 - 3	2x4	DRY	No.2	SPF
6 - 4	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-t	MT20	3.0	4.0		
2	TTW+m	MT20	3.0	4.0		
3	TMVW-t	MT20	3.0	4.0	1.50	1.00
4	BMV1+p	MT20	2.0	4.0		
5	BMVWW-t	MT20	3.0	6.0		
6	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.



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

BEARINGS

JT	FACTORED GROSS REACTION VERT	FACTORED GROSS REACTION HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	MAXIMUM FACTORED GROSS REACTION HORZ	INPUT BRG UPLIFT	REQRD BRG IN-SX
6	344	0	344	0	0	HANGER BY OTHERS
4	344	0	344	0	0	MIN. SEAT SIZE: 1-8 HANGER BY OTHERS MIN. SEAT SIZE: 1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	241	169 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0
4	241	169 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0

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

LOADING
TOTAL LOAD CASES: (3)

FR-TO	CHORDS MAX. FACTORED MEMB. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRAC LENGTH	WEBS MAX. FACTORED MEMB. FORCE (LBS)	MAX. UNBRAC LENGTH
6-1	-318 / 0	0.0	0.0	0.14 (1)	7.81	1-5
1-2	-131 / 0	-77.3	-77.3	0.19 (1)	6.25	5-2
2-3	-163 / 0	-77.3	-77.3	0.16 (1)	6.25	5-3
4-3	-319 / 0	0.0	0.0	0.05 (1)	7.81	
6-5	0 / 0	-17.5	-17.5	0.06 (3)	10.00	
5-4	0 / 0	-17.5	-17.5	0.06 (3)	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 8.00/12

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 (0.24")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.24")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.19 (1-2:1), BC=0.06 (4-5:3), WB=0.07 (2-5:1), SSI=0.11 (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)
MT20	618	354	1667

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

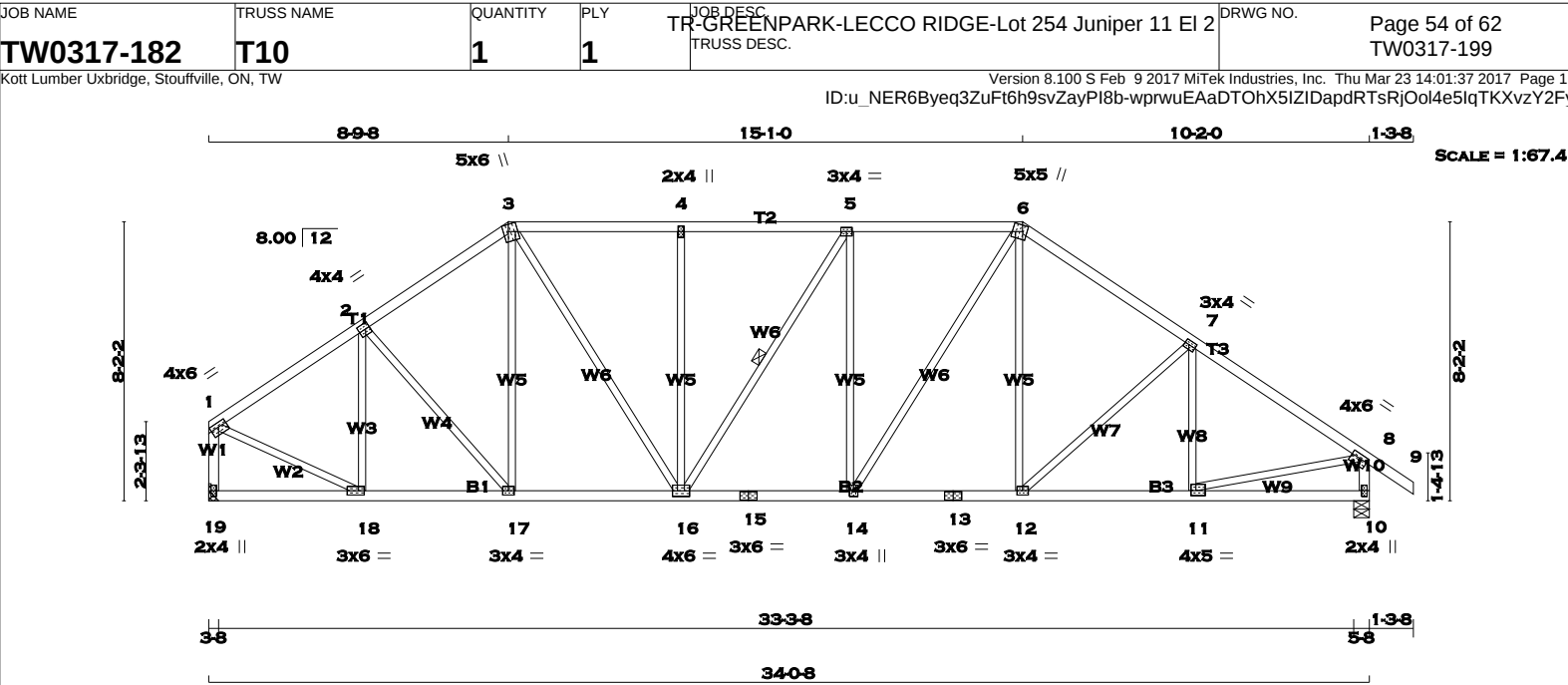
JSI GRIP= 0.54 (3) (INPUT = 0.90)
JSI METAL= 0.09 (3) (INPUT = 1.00)



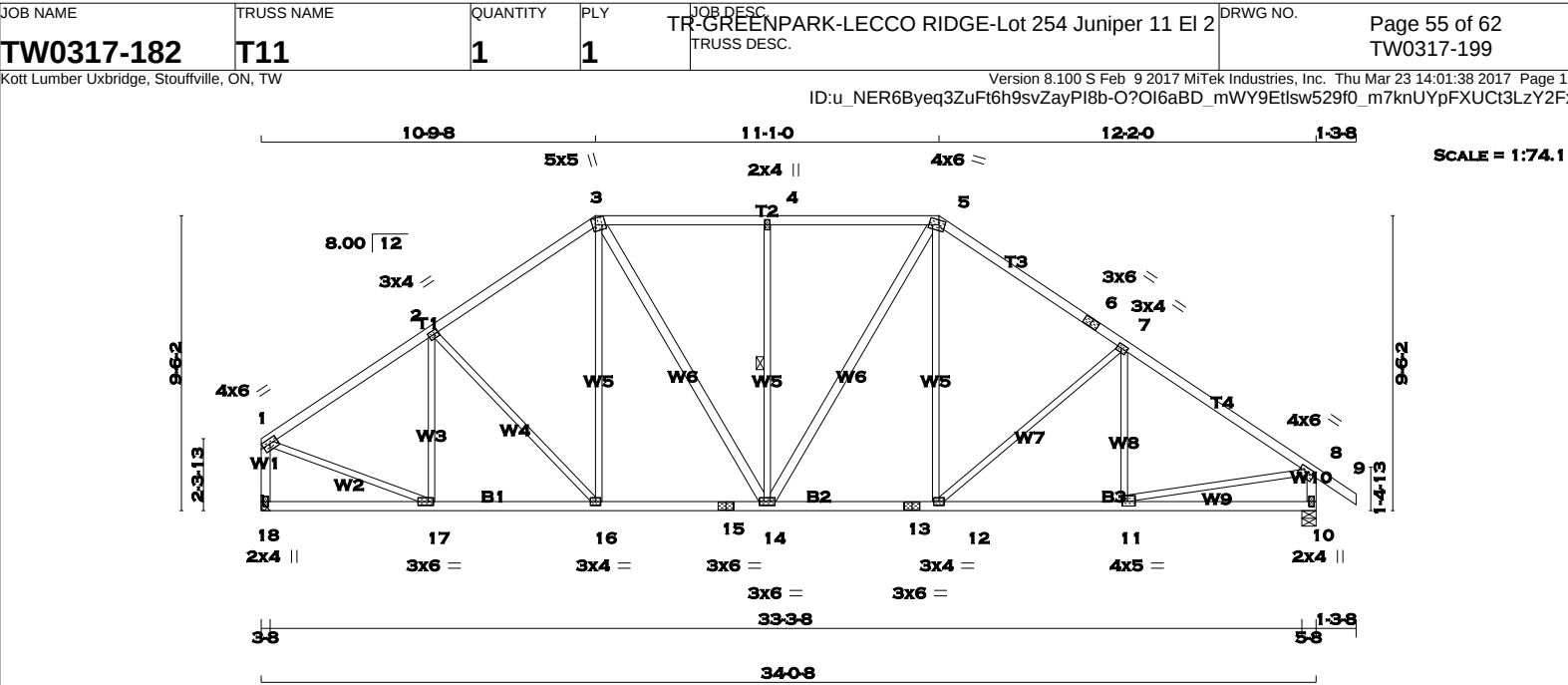
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BUILDING DIVISION

March 23, 2017



LUMBER N. L. G. A. RULES CHORDS SIZE 1 - 3 2x4 DRY No.2 SPF 3 - 6 2x4 DRY No.2 SPF 6 - 9 2x4 DRY No.2 SPF 19- 1 2x4 DRY No.2 SPF 10- 8 2x4 DRY No.2 SPF 19- 15 2x4 DRY No.2 SPF 15- 13 2x4 DRY No.2 SPF 13- 10 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS 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LUMBER		N. L. G. A. RULES		LUMBER	DESCR.
CHORDS	SIZE				
1 - 3	2x4	DRY	No.2	SPF	
3 - 5	2x4	DRY	No.2	SPF	
5 - 6	2x4	DRY	No.2	SPF	
6 - 9	2x4	DRY	No.2	SPF	
18 - 1	2x4	DRY	No.2	SPF	
10 - 8	2x4	DRY	No.2	SPF	
18 - 15	2x4	DRY	No.2	SPF	
15 - 13	2x4	DRY	No.2	SPF	
13 - 10	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	
3 - 14	2x4	DRY	No.2	SPF	
14 - 5	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
1	TMVW-t	MT20	4.0	6.0	1.75 Edge
2	TMWW-t	MT20	3.0	4.0	1.50 1.50
3	TTWW+m	MT20	5.0	5.0	Edge 3.75
4	TMW+w	MT20	2.0	4.0	
5	TTWW-m	MT20	4.0	6.0	1.75 2.25
6	TS-t	MT20	3.0	6.0	
7	TMWW-t	MT20	3.0	4.0	1.50 1.50
8	TMVW-t	MT20	4.0	6.0	1.50 3.00
10	BMV1+p	MT20	2.0	4.0	
11	BMWW-t	MT20	4.0	5.0	1.75 2.00
12	BMWW-t	MT20	3.0	4.0	
13	BS-t	MT20	3.0	6.0	
14	BMWWW-t	MT20	3.0	6.0	
15	BS-t	MT20	3.0	6.0	
16	BMWW-t	MT20	3.0	4.0	
17	BMWW-t	MT20	3.0	6.0	1.50 2.00
18	BMV1+p	MT20	2.0	4.0	

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.



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		
18		1614	0	1614	0	0			
10		1721	0	1721	0	0			

UNFACTORED REACTIONS		1ST LCASE		MAX./MIN. COMPONENT REACTIONS	
JT		COMBINED	SNOW	LIVE	PERM.LIVE
18		1133	793 / 0	0 / 0	0 / 0
10		1205	856 / 0	0 / 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 = 4.38 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-14. DBS = 20-0-0. CBF = 65 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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: (3)	
C H O R D S		W E B S	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)
FR-TO		FROM TO	FR-TO
1-2	-1619 / 0	-77.3 -77.3	0.34 (1) 4.86
2-3	-1587 / 0	-77.3 -77.3	0.33 (1) 4.91
3-4	-1523 / 0	-77.3 -77.3	0.34 (1) 4.97
4-5	-1523 / 0	-77.3 -77.3	0.34 (1) 4.97
5-6	-1684 / 0	-77.3 -77.3	0.43 (1) 4.68
6-7	-1684 / 0	-77.3 -77.3	0.43 (1) 4.68
7-8	-1949 / 0	-77.3 -77.3	0.47 (1) 4.38
8-9	0 / 29	-77.3 -77.3	0.10 (1) 10.00
18-1	-1574 / 0	0.0 0.0	0.20 (1) 6.58
10-8	-1675 / 0	0.0 0.0	0.17 (1) 6.41
18-17	0 / 0	-17.5 -17.5	0.12 (3) 10.00
17-16	0 / 1370	-17.5 -17.5	0.28 (1) 10.00
16-15	0 / 1297	-17.5 -17.5	0.26 (1) 10.00
15-14	0 / 1297	-17.5 -17.5	0.26 (1) 10.00
14-13	0 / 1376	-17.5 -17.5	0.28 (1) 10.00
13-12	0 / 1376	-17.5 -17.5	0.28 (1) 10.00
12-11	0 / 1647	-17.5 -17.5	0.34 (1) 10.00
11-10	0 / 0	-17.5 -17.5	0.16 (3) 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 8.00/12

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 (1.13")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (1.13")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.14")

CSI: TC=0.47 (7-8:1), BC=0.34 (11-12:1), WB=0.48 (7-12:1), SSI=0.21 (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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

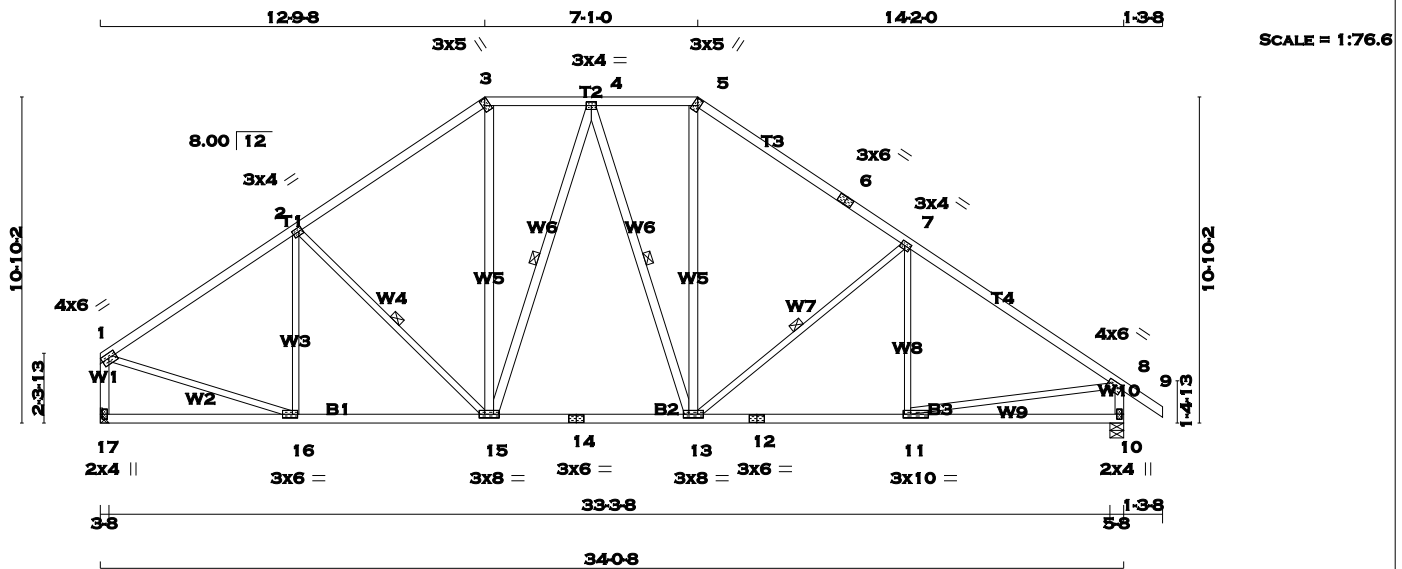
JSI GRIP= 0.90 (11) (INPUT = 0.90)
JSI METAL= 0.53 (8) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE 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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17-6230
BUILDING DIVISION

March 23, 2017



TOTAL WEIGHT = 172 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	
5 - 6	2x4	DRY	No.2	SPF	
6 - 9	2x4	DRY	No.2	SPF	
17 - 1	2x4	DRY	No.2	SPF	
10 - 8	2x4	DRY	No.2	SPF	
17 - 14	2x4	DRY	No.2	SPF	
14 - 12	2x4	DRY	No.2	SPF	
12 - 10	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	
15 - 3	2x4	DRY	No.2	SPF	
15 - 4	2x4	DRY	No.2	SPF	
4 - 13	2x4	DRY	No.2	SPF	
13 - 5	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
1	TMVW-t	MT20	4.0	6.0	1.75 Edge
2	TMWW-t	MT20	3.0	4.0	1.50 1.50
3	TTW+h	MT20	3.0	5.0	2.50 1.00
4	TMWW-t	MT20	3.0	4.0	
5	TTW+h	MT20	3.0	5.0	2.50 1.00
6	TS-t	MT20	3.0	6.0	
7	TMWW-t	MT20	3.0	4.0	1.50 1.50
8	TMVW-t	MT20	4.0	6.0	1.50 3.00
10	BMV1+p	MT20	2.0	4.0	
11	BMWW-t	MT20	3.0	10.0	1.50 3.00
12	BS-t	MT20	3.0	6.0	
13	BMWWW-t	MT20	3.0	8.0	
14	BS-t	MT20	3.0	6.0	
15	BMWWW-t	MT20	3.0	8.0	
16	BMWW-t	MT20	3.0	6.0	1.50 2.00
17	BMV1+p	MT20	2.0	4.0	

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.



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		
17		1614	0	1614	0	0		HANGER BY OTHERS	
10		1721	0	1721	0	0	5-8	5-8	

UNFACTORED REACTIONS							
		1ST LCASE	MAX./MIN. COMPONENT REACTIONS				
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
17		1133	793 / 0	0 / 0	0 / 0	0 / 0	340 / 0
10		1205	856 / 0	0 / 0	0 / 0	0 / 0	349 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.12 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.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 2-15, 4-15, 4-13, 7-13. DBS = 20-0-0 . CBF = 62 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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: (3)			
C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORIZ. LOAD (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORIZ. LOAD (LC1)
FR-TO		FROM TO	CSI (LC)	UNBRAC LENGTH	FR-TO		
1-2	-1665 / 0	-77.3 -77.3	0.50 (1)	4.61	16-2	-309 / 14	0.23 (1)
2-3	-1508 / 0	-77.3 -77.3	0.47 (1)	4.82	2-15	-262 / 0	0.15 (1)
3-4	-1233 / 0	-77.3 -77.3	0.13 (1)	5.65	15-3	0 / 526	0.08 (1)
4-5	-1275 / 0	-77.3 -77.3	0.13 (1)	5.58	15-4	-240 / 0	0.16 (1)
5-6	-1563 / 0	-77.3 -77.3	0.60 (1)	4.57	4-13	-100 / 5	0.07 (1)
6-7	-1563 / 0	-77.3 -77.3	0.60 (1)	4.57	13-5	0 / 534	0.09 (1)
7-8	-1951 / 0	-77.3 -77.3	0.67 (1)	4.12	13-7	-499 / 0	0.30 (1)
8-9	0 / 29	-77.3 -77.3	0.10 (1)	10.00	11-7	-110 / 85	0.07 (1)
17-1	-1568 / 0	0.0	0.0	0.19 (1)	6-58	0 / 1478	0.33 (1)
10-8	-1669 / 0	0.0	0.0	0.17 (1)	6-42	0 / 1672	0.38 (1)

17-16	0 / 0	-17.5 -17.5	0.17 (3)	10.00
16-15	0 / 1412	-17.5 -17.5	0.32 (1)	10.00
15-14	0 / 1306	-17.5 -17.5	0.30 (1)	10.00
14-13	0 / 1306	-17.5 -17.5	0.30 (1)	10.00
13-12	0 / 1654	-17.5 -17.5	0.38 (1)	10.00
12-11	0 / 1654	-17.5 -17.5	0.38 (1)	10.00
11-10	0 / 0	-17.5 -17.5	0.21 (3)	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 8.00/12

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 (1.13")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (1.13")
CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CSI: TC=0.67 (7-8:1) , BC=0.38 (11-13:1) , WB=0.38 (8-11:1) , SSI=0.22 (7-8:1)

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.

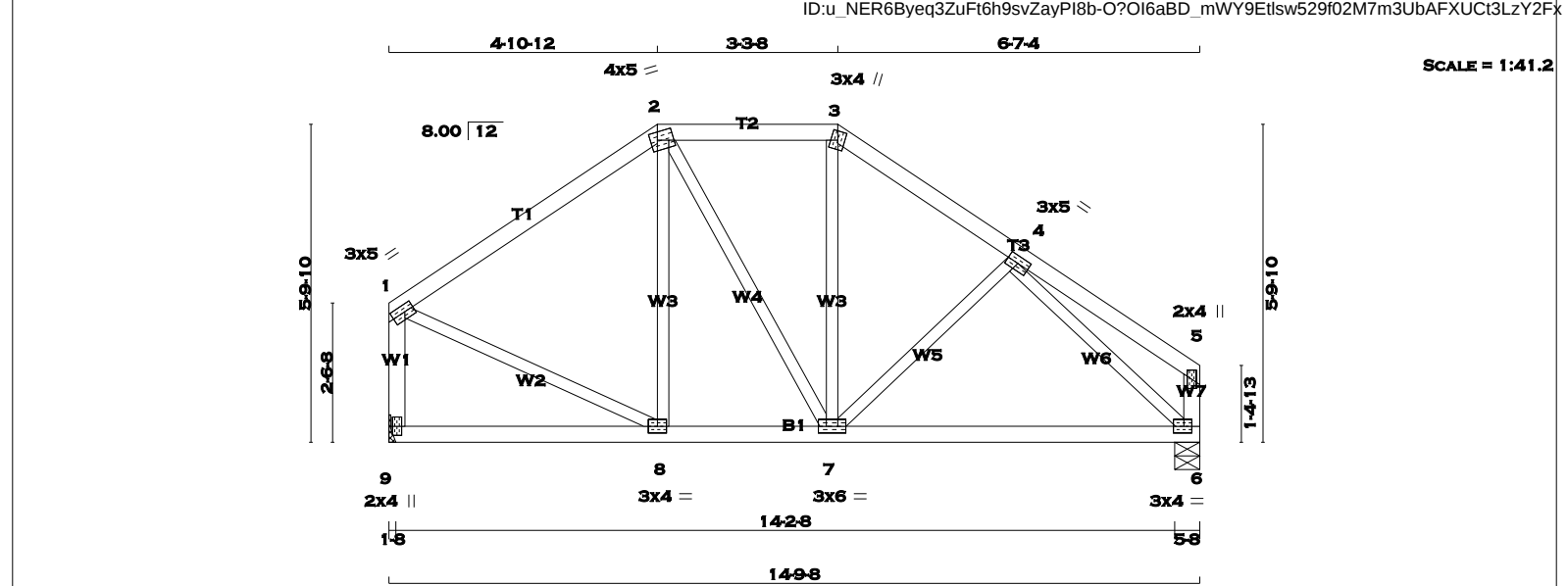
JSI GRIP= 0.90 (11) (INPUT = 0.90)
JSI METAL= 0.54 (8) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE 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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LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

SPF

1 - 2

2x4

DRY

No.2

SPF

2 - 3

2x4

DRY

No.2

SPF

3 - 5

2x4

DRY

No.2

SPF

9 - 1

2x4

DRY

No.2

SPF

6 - 5

2x4

DRY

No.2

SPF

9 - 6

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

MAXIMUM FACTORED

INPUT

REQRD

GROSS REACTION

GROSS REACTION

BRG

BRG

DOWN

HORZ

UPLIFT

IN-SX

IN-SX

9

701

0

701

0

0

HANGER BY OTHERS

MIN. SEAT SIZE: 1-8

5-8

5-8

6

701

0

701

0

0

5-8

5-8

UNFACTORED REACTIONS

1ST LCASE

MAX./MIN. COMPONENT REACTIONS

JT

COMBINED

SNOW

LIVE

PERM.LIVE

WIND

DEAD

SOIL

9

492

344 / 0

0 / 0

0 / 0

0 / 0

148 / 0

0 / 0

6

492

344 / 0

0 / 0

0 / 0

0 / 0

148 / 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: (3)

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 8.00/12

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 (0.49")

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")

ALLOWABLE DEFL.(TL)= L/360 (0.49")

CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.24 (1-2:1) , BC=0.19 (6-7:3) , WB=0.27 (4-6:1) , SSI=0.12 (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.

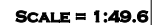
JSI GRIP= 0.89 (4) (INPUT = 0.90)

JSI METAL= 0.22 (4) (INPUT = 1.00)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	5.0	1.50	2.00
2	TTWW-m	MT20	4.0	5.0	1.75	1.50
3	TTW+m	MT20	3.0	4.0		
4	TMVW-t	MT20	3.0	5.0		
5	TMV+p	MT20	2.0	4.0		
6	BMVW1-t	MT20	3.0	4.0	1.50	1.75
7	BMVW1-t	MT20	3.0	6.0		
8	BMVW-t	MT20	3.0	4.0		
9	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

MEMB.	CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX	MEMB.	CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX
FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO	FR-TO
1-2	-512 / 0	-77.3	-77.3	0.24 (1)	6.25	8-2	-124 / 14	0.06 (1)							
2-3	-477 / 0	-77.3	-77.3	0.11 (1)	6.25	2-7	0 / 107	0.02 (1)							
3-4	-588 / 0	-77.3	-77.3	0.10 (1)	6.25	7-3	0 / 92	0.03 (3)							
4-5	0 / 16	-77.3	-77.3	0.13 (1)	10.00	7-4	-113 / 11	0.04 (1)							
9-1	-663 / 0	0.0	0.0	0.09 (1)	7.81	1-8	0 / 466	0.10 (1)							
6-5	-99 / 0	0.0	0.0	0.01 (1)	7.81	4-6	-785 / 0	0.27 (1)							
9-8	0 / 0	-17.5	-17.5	0.10 (3)	10.00										
8-7	0 / 423	-17.5	-17.5	0.19 (3)	10.00										
7-6	0 / 556	-17.5	-17.5	0.19 (3)	10.00										



[M][F]

JSI GRIP= 0.85 (4) (INPUT = 0.90)
JSI METAL= 0.24 (2) (INPUT = 1.00)

CHORDS				WEBS			
MEMB.	FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 16	-77.3	-77.3 0.13 (1)	10.00	2-7	-32 / 34	0.02 (1)
2-3	-477 / 0	-77.3	-77.3 0.10 (1)	6.25	7-3	0 / 299	0.07 (1)
3-4	-481 / 0	-77.3	-77.3 0.15 (1)	6.25	7-4	-164 / 4	0.09 (1)
4-5	0 / 20	-77.3	-77.3 0.19 (1)	10.00	8-2	-674 / 0	0.33 (1)
8-1	-99 / 0	0.0	0.0 0.01 (1)	7.81	4-6	-714 / 0	0.36 (1)
6-5	-115 / 0	0.0	0.0 0.01 (1)	7.81			
8-7	0 / 403	-17.5	-17.5 0.20 (3)	10.00			
7-6	0 / 499	-17.5	-17.5 0.39 (3)	10.00			



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CS Beam 4.11.26.1
kmBeamEngine 4.11.26.1
Materials Database 1516**Member Data B1****Description:**

Member Type: Beam

Application: Roof

Top Lateral Bracing: Continuous

Slope: 0.00 / 12

Bottom Lateral Bracing: Continuous

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Snow Load: 30 PLF

Deflection Criteria: L/360 live, L/240 total

0.720" max. LL

Dead Load: 15 PLF

Deck Connection: Nailed

Member Weight: 3.9 PLF

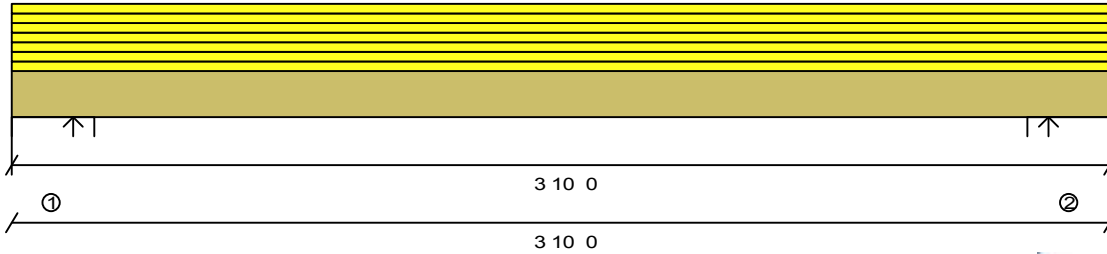
Filename: Beam1

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Additional Uniform (PLF)	Top	0' 0.00"	3' 10.00"		0		72		Live
Additional Uniform (PLF)	Top	0' 0.00"	3' 10.00"		167		0		Snow
Additional Uniform (PLF)	Top	0' 0.00"	3' 10.00"		0		10		Live
Additional Uniform (PLF)	Top	0' 0.00"	3' 10.00"		0		10		Live
Additional Uniform (PLF)	Top	0' 0.00"	3' 10.00"		23		0		Snow
Additional Uniform (PLF)	Top	0' 0.00"	3' 10.00"		0		35		Live
Additional Uniform (PLF)	Top	0' 0.00"	3' 10.00"		82		0		Snow

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Wall	Steel	3.500"	1.500"	1080#	--
2	3' 10.000"	Wall	Steel	3.500"	1.500"	1080#	--

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Snow	Dead
1	513#	248#
2	513#	248#

Design spans
3' 4.750"

March 23, 2017

Product: S-P-F No1/No2 2x8 2 ply**PASSES DESIGN CHECKS**

Design assumes continuous lateral bracing along the top chord.
Design assumes continuous lateral bracing along the bottom chord.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	917.#	4049.#	22%	1.92'	Total Load 1.25D+1.00*1.5S
Shear	695.#	2271.#	30%	0.23'	Total Load 1.25D+1.00*1.5S
Max. Reaction	1080.#	6457.#	16%	0'	Total Load 1.25D+1.00*1.5S
TL Deflection	0.0101"	0.1698"	L/999+	1.92'	Total Load D+S
LL Deflection	0.0068"	0.1132"	L/999+	1.92'	Total Load S

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loads beams assumed to be 3.50"

Control: Shear

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

READ ALL NOTES ON THIS PAGE AND ON THE
ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE
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CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.



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17-6230
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**Passing is defined as when the member, floor joist, beam or girder, shown on this drawing meets applicable design criteria for Loads, Loading Conditions, and Spans listed on this sheet. The design must be reviewed by a qualified designer or design professional as required for approval. This design assumes product installation according to the manufacturer's specifications.

CS Beam 4.11.26.1
kmBeamEngine 4.11.26.1
Materials Database 1516

Member Data B2**Description:**

Member Type: Beam

Application: Roof

Top Lateral Bracing: Continuous

Slope: 0.00 / 12

Bottom Lateral Bracing: Continuous

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Snow Load: 30 PLF

Deflection Criteria: L/360 live, L/240 total

0.720" max. LL

Dead Load: 15 PLF

Deck Connection: Nailed

Member Weight: 3.9 PLF

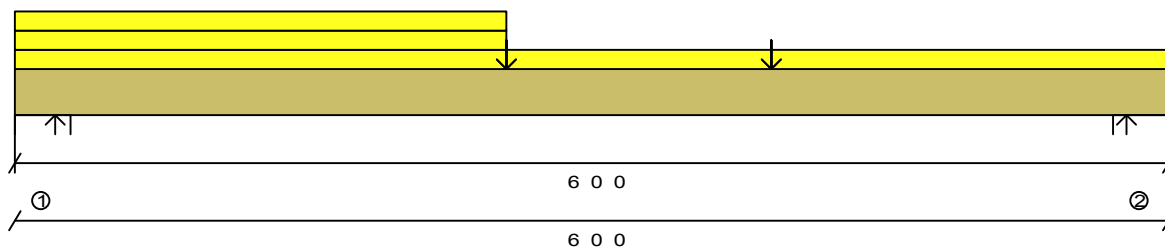
Filename: Beam2

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Additional Uniform (PLF)	Top	0' 0.00"	2' 6.75"		0		40		Live
Additional Uniform (PLF)	Top	0' 0.00"	2' 6.75"		114		0		Snow
Point (LBS)	Top	2' 6.75"			0		367		Live
Point (LBS)	Top	2' 6.75"			855		0		Snow
Additional Uniform (PLF)	Top	0' 0.00"	6' 0.00"		0		10		Live
Point (LBS)	Top	3' 11.25"			0		265		Live
Point (LBS)	Top	3' 11.25"			617		0		Snow

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravit Uplift
1	0' 0.000"	Wall	Steel	3.500"	1.500"	2059#	--
2	6' 0.000"	Wall	Steel	3.500"	1.500"	1909#	--

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Snow	Dead
1	994#	455#
2	912#	432#

Design spans
5' 6.750"

March 23, 2017

Product: S-P-F No1/No2 2x8 2 ply**PASSES DESIGN CHECKS**

Design assumes continuous lateral bracing along the top chord.
Design assumes continuous lateral bracing along the bottom chord.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	3995.#	4049.#	98%	2.56'	Total Load 1.25D+1.00*1.5S
Shear	1876.#	2271.#	82%	0.23'	Total Load 1.25D+1.00*1.5S
Max. Reaction	2059.#	6457.#	31%	0'	Total Load 1.25D+1.00*1.5S
TL Deflection	0.1084"	0.2781"	L/615	3'	Total Load D+S
LL Deflection	0.0744"	0.1854"	L/897	3'	Total Load S

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loads beams assumed to be 3.50"

Control: Positive Moment

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

READ ALL NOTES ON THIS PAGE AND ON THE
ENGINEERING NOTE PAGE ENP-1. THE 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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**Passing is defined as when the member, floor joist, beam or girder, shown on this drawing meets applicable design criteria for Loads, Loading Conditions, and Spans listed on this sheet. The design must be reviewed by a qualified designer or design professional as required for approval. This design assumes product installation according to the manufacturer's specifications.

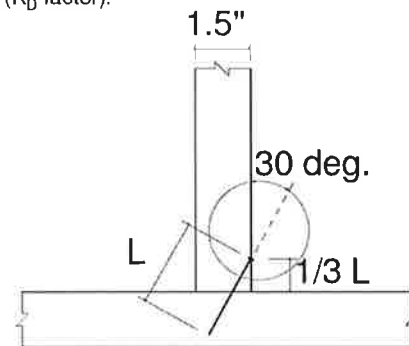
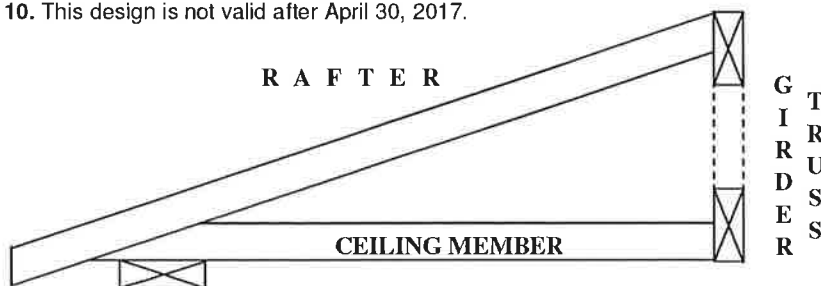
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

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
COMMON SPIRAL	3.00	0.122	97	108
	3.25	0.122	97	108
	3.50	0.152	145	162

NOTES:

1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-09, 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, 2017.



TOE-NAIL INSTALLATION

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



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100 Industrial Rd.
Bradford, Ontario L3Z 3G7

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BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

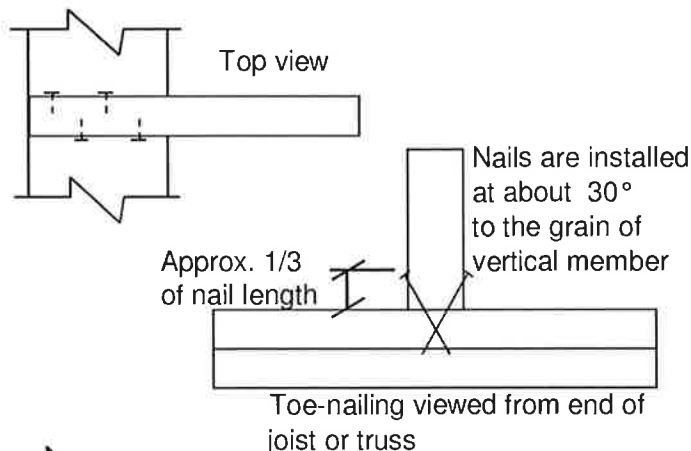
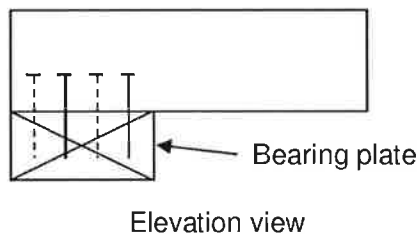
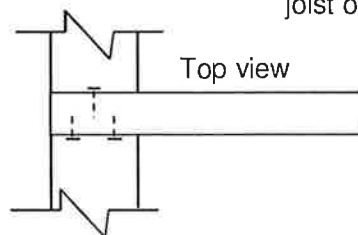
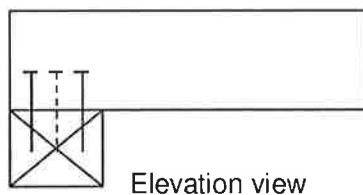
B37579H2

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
COMMON SPIRAL	3.00	0.122	26	36
	3.25	0.122	28	40
	3.50	0.152	36	50

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

NOTES:

1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to **wind** or **earthquake** load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher than the maximum toe-nail withdrawal capacity.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-09, 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, 2017

Toe-nailing on 2x6 Bearing Plate**Toe-nailing on 2x4 Bearing Plate**

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

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