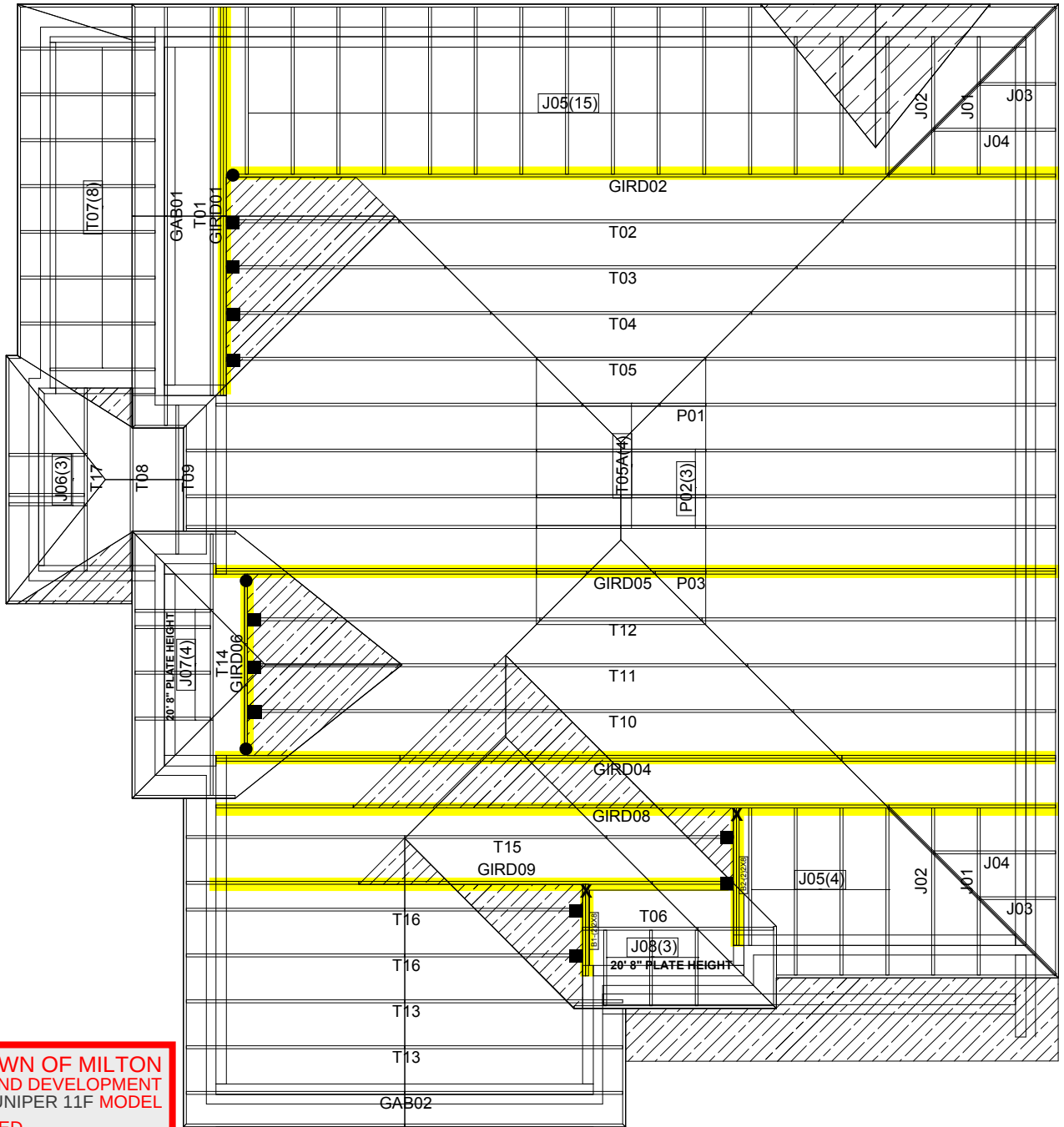




TOWN OF MILTON
PLANNING AND DEVELOPMENT
JUNIPER 11F MODEL

BUILDING: REVIEWED
SCOTT SHERRIFFS MAR 30, 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
MAR 29, 2017
JUNIPER 11F
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 ✕ HGUS26-2

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

Model: **JUNIPER 11 EL 1**
Customer: **GREENPARK**
Project: **LECCO RIDGE**
Location: **MILTON**
Date: **10/27/2016** 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

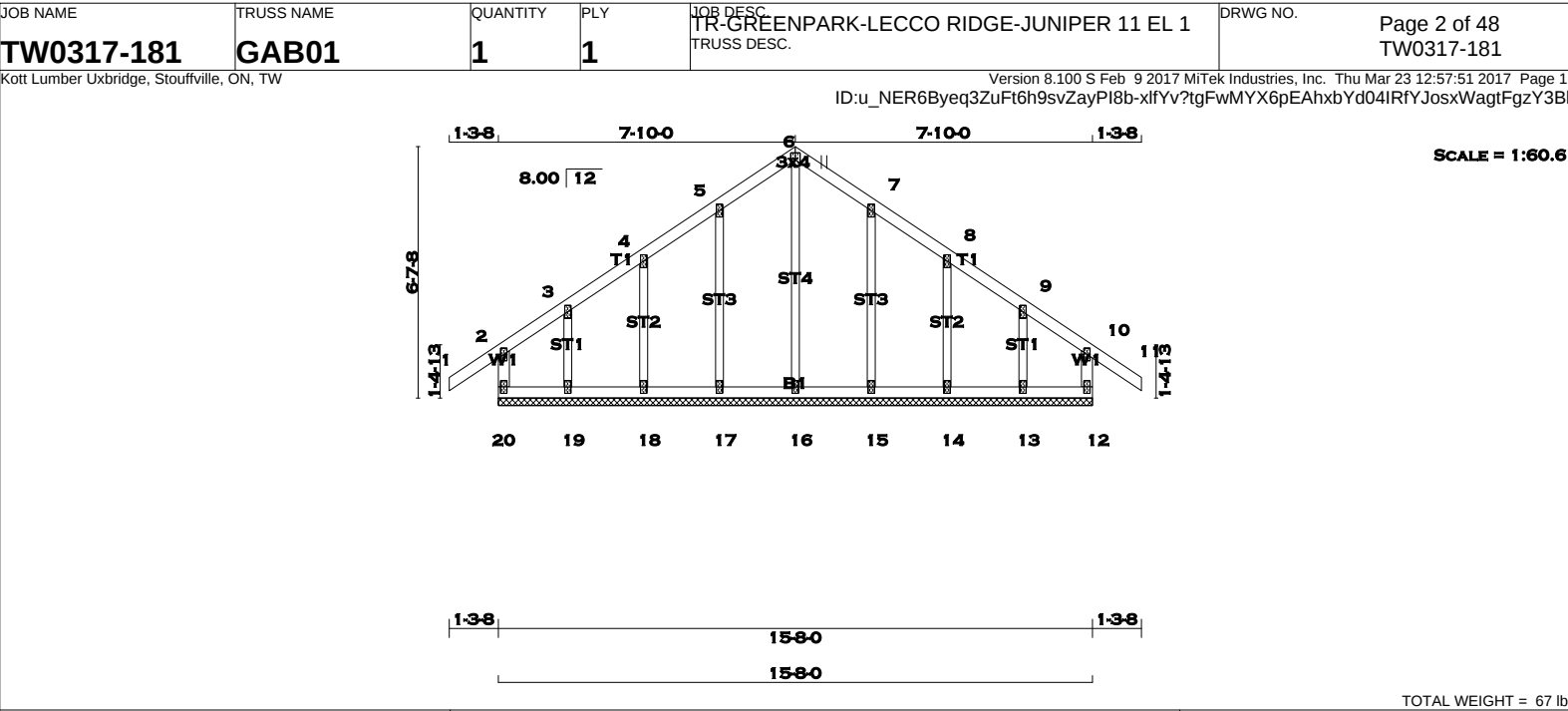
- The trusses are to be supported at the bearing points indicated and anchored to the supports where considered necessary by the designer of the overall structure
- Bearing sizes shown are the minimum required to prevent crushing of the truss members and do not necessarily take into account stability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



Kott Lumber Uxbridge, Stouffville, ON, TW

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Thu Mar 23 12:57:51 2017 Page 1

ID:u_NER6Byeq3ZuFt6h9svZayPI8b-xfYv?tgFwMYX6pEAhxbYd04IRfYJosxWagtFgzY3Bk

1-38

7-100

6

7-100

1-38

8.00

12

5

7

3

4

5

6

7

8

9

10

2

3

4

5

6

7

8

9

10

1-4-13

1-4-13

20

19

18

17

16

15

14

13

12

67-8

1-4-13

1-4-13

1-38

1580

1-38

1580

SCALE = 1:60.6

TOTAL WEIGHT = 67 lb

[M]

LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

20 - 2

2x4

DRY

No.2

SPF

1 - 6

2x4

DRY

No.2

SPF

6 - 11

2x4

DRY

No.2

SPF

12 - 10

2x4

DRY

No.2

SPF

20 - 12

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

ALL GABLE WEBS

2x3

DRY

No.2

SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT

2-0-0 OC.

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS

MEMB.

MAX. FACTORED FORCE (LBS)

FACTORED VERT. LOAD (PLF)

LC1 MAX (LC)

UNBRAC LENGTH

FR-TO

WEBS

MEMB.

MAX. FACTORED FORCE (LBS)

FACTORED MAX (LC)

20-2

-184 / 0

0.0

0.0

0.03 (1)

7.81

16-6

-191 / 0

0.13 (1)

1-2

0 / 29

-77.3

-77.3

0.10 (1)

10.00

17-5

-157 / 0

0.07 (1)

2-3

-2 / 6

-77.3

-77.3

0.07 (1)

10.00

18-4

-158 / 0

0.04 (1)

3-4

0 / 25

-77.3

-77.3

0.04 (1)

10.00

19-3

-117 / 0

0.02 (1)

4-5

0 / 26

-77.3

-77.3

0.04 (1)

10.00

15-7

-157 / 0

0.07 (1)

5-6

0 / 28

-77.3

-77.3

0.04 (1)

10.00

14-8

-158 / 0

0.04 (1)

6-7

0 / 28

-77.3

-77.3

0.04 (1)

10.00

13-9

-117 / 0

0.02 (1)

7-8

0 / 26

-77.3

-77.3

0.04 (1)

10.00

8-9

0 / 25

-77.3

-77.3

0.04 (1)

10.00

9-10

-2 / 6

-77.3

-77.3

0.07 (1)

10.00

10-11

0 / 29

-77.3

-77.3

0.10 (1)

10.00

12-10

-184 / 0

0.0

0.0

0.03 (1)

7.81

20-19

-14 / 0

-17.5

-17.5

0.01 (3)

6.25

19-18

-18 / 0

-17.5

-17.5

0.01 (3)

6.25

18-17

-21 / 0

-17.5

-17.5

0.01 (3)

6.25

17-16

-24 / 0

-17.5

-17.5

0.01 (3)

6.25

16-15

-24 / 0

-17.5

-17.5

0.01 (3)

6.25

15-14

-21 / 0

-17.5

-17.5

0.01 (3)

6.25

14-13

-18 / 0

-17.5

-17.5

0.01 (3)

6.25

13-12

-14 / 0

-17.5

-17.5

0.01 (3)

6.25

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF

DL = 3.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.0 PSF

TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

- CSA 086-09

- TPIC 2011

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

CSI: TC=0.10 (10-11:1) , BC=0.01 (13-14:3) , WB=0.13 (6-16:1) , SSI=0.07 (10-11:1)

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 (6) (INPUT = 0.90)

JSI METAL= 0.07 (6) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER

T.L. WISE

100083566

PROVINCE OF ONTARIO

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.

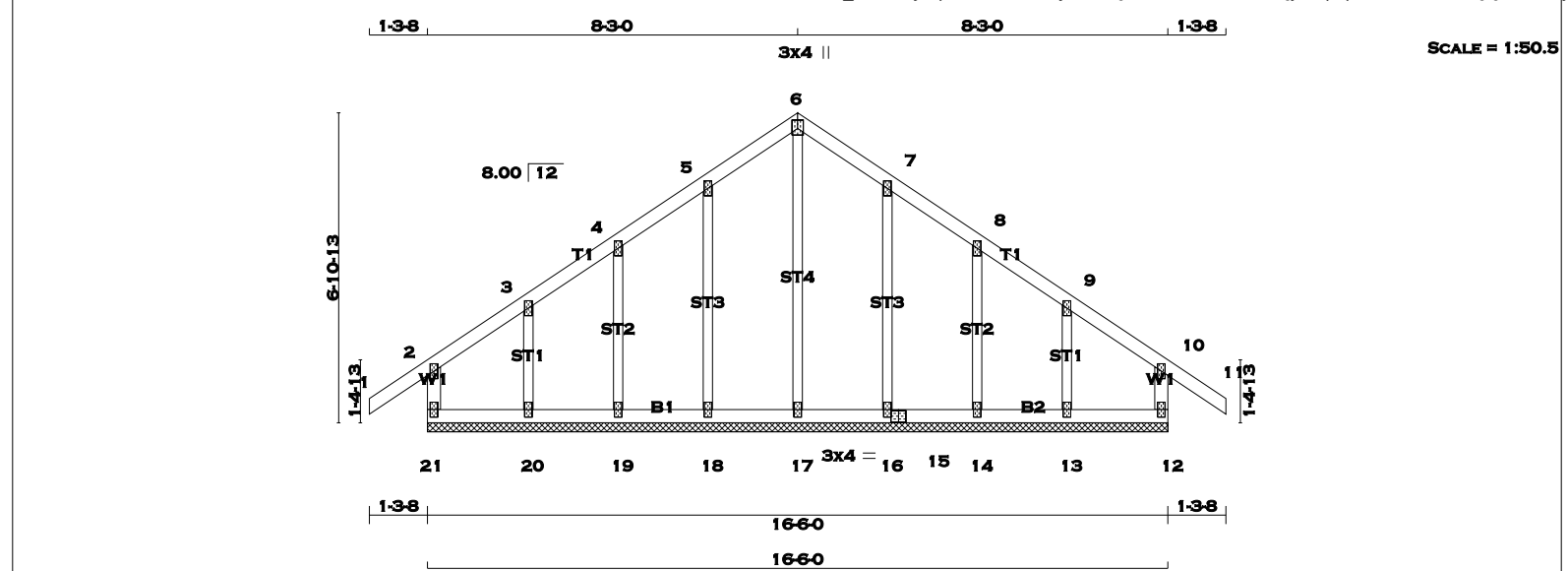
RECEIVED

TOWN OF MILTON

MAR 29, 2017

JUNIPER 11F

BUILDING DIVISION



LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

21 - 2

2x4

DRY

No.2

SPF

1 - 6

2x4

DRY

No.2

SPF

6 - 11

2x4

DRY

No.2

SPF

12 - 10

2x4

DRY

No.2

SPF

21 - 15

2x4

DRY

No.2

SPF

15 - 12

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

ALL GABLE WEBS

2x3

DRY

No.2

SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (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

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 (10-11:1) , BC=0.02 (20-21:3) , WB=0.12 (6-17:1) , SS=0.07 (10-11:1)

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

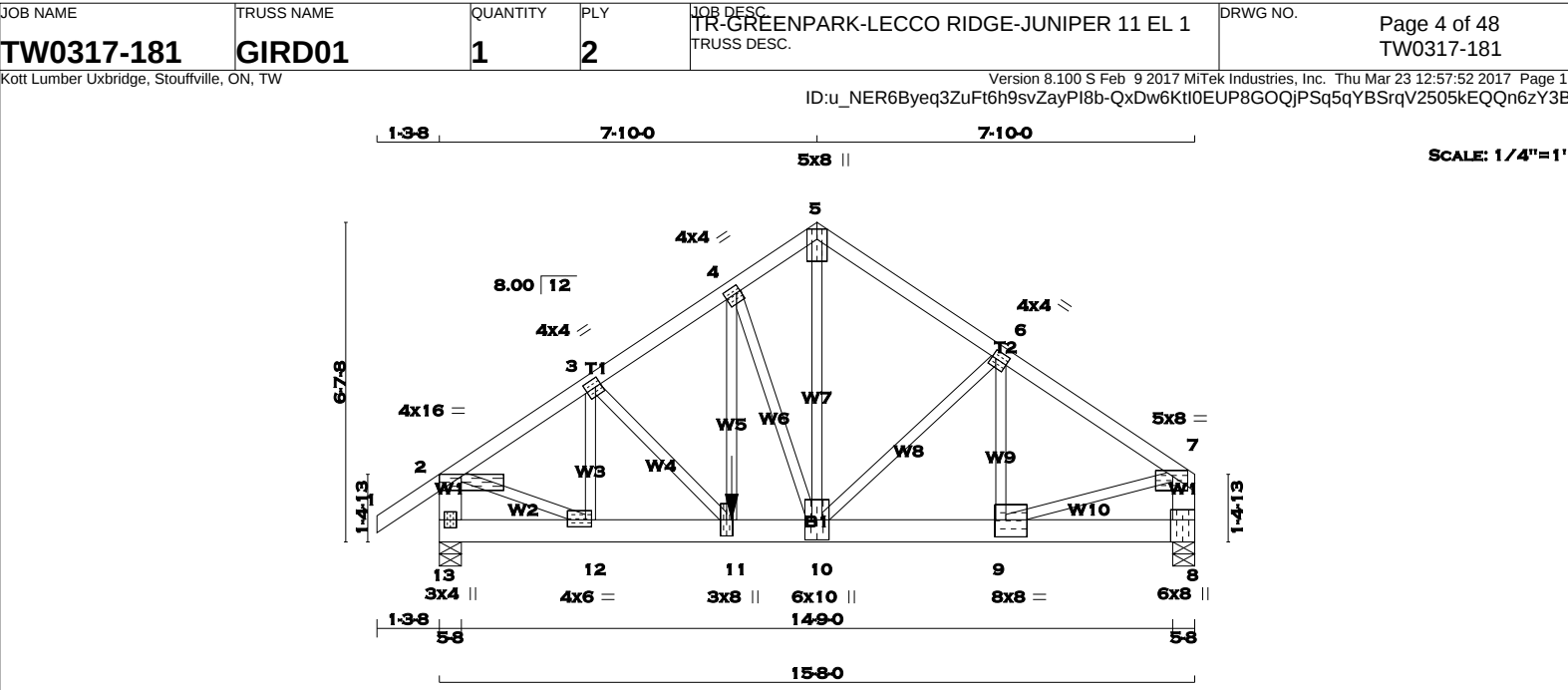
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.54 (6) (INPUT = 0.90)

JSI METAL= 0.06 (6) (INPUT = 1.00)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3, 4, 5, 7, 8, 9						
3	TMW+w	MT20	2.0	4.0		
6	TTW+p	MT20	3.0	4.0	2.25	1.50
10	TMV+p	MT20	2.0	4.0		
12	BMV1+p	MT20	2.0	4.0		
13, 14, 16, 17, 18, 19, 20						
13	BMW1+w	MT20	2.0	4.0		
15	BS-t	MT20	3.0	4.0		
21	BMV1+p	MT20	2.0	4.0		
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.						

MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (CSI (LC)	UNBRAC LENGTH (FR-TO	MEMB.	FORCE (LBS)	MAX (CSI (LC)
21-2	-206 / 0	0.0	0.0 0.02 (1)	7.81	17-6	-148 / 0	0.12 (1)
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	18-5	-157 / 0	0.07 (1)
2-3	-26 / 0	-77.3	-77.3 0.04 (1)	6.25	19-4	-151 / 0	0.04 (1)
3-4	-20 / 0	-77.3	-77.3 0.04 (1)	6.25	20-3	-157 / 0	0.03 (1)
4-5	-15 / 0	-77.3	-77.3 0.04 (1)	6.25	16-7	-157 / 0	0.07 (1)
5-6	-12 / 0	-77.3	-77.3 0.04 (1)	6.25	14-8	-151 / 0	0.04 (1)
6-7	-12 / 0	-77.3	-77.3 0.04 (1)	6.25	13-9	-157 / 0	0.03 (1)
7-8	-15 / 0	-77.3	-77.3 0.04 (1)	6.25			
8-9	-20 / 0	-77.3	-77.3 0.04 (1)	6.25			
9-10	-26 / 0	-77.3	-77.3 0.04 (1)	6.25			
10-11	0 / 29	-77.3	-77.3 0.10 (1)	10.00			
12-10	-206 / 0	0.0	0.0 0.02 (1)	7.81			
21-20	0 / 21	-17.5	-17.5 0.02 (3)	10.00			
20-19	0 / 16	-17.5	-17.5 0.02 (3)	10.00			
19-18	0 / 13	-17.5	-17.5 0.02 (3)	10.00			
18-17	0 / 10	-17.5	-17.5 0.02 (3)	10.00			
17-16	0 / 10	-17.5	-17.5 0.02 (3)	10.00			
16-15	0 / 13	-17.5	-17.5 0.02 (3)	10.00			
15-14	0 / 13	-17.5	-17.5 0.02 (3)	10.00			
14-13	0 / 16	-17.5	-17.5 0.02 (3)	10.00			
13-12	0 / 21	-17.5	-17.5 0.02 (3)	10.00			



LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 5	2x4	DRY	No.2	SPF
5 - 7	2x4	DRY	No.2	SPF
13 - 2	2x6	DRY	No.2	SPF
8 - 7	2x6	DRY	No.2	SPF
13 - 8	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
1- 5	12	TOP
5- 7	12	TOP
13- 2	12	TOP
8- 7	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
13- 8	6	SIDE(385.3)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-p	MT20	4.0	16.0	Edge	5.50
3	TMWW-t	MT20	4.0	4.0	2.00	1.50
4	TMWW-t	MT20	4.0	4.0	1.75	1.00
5	TTW+p	MT20	5.0	8.0	Edge	
6	TMWW-t	MT20	4.0	4.0	2.00	1.00
7	TMVW-p	MT20	5.0	8.0	1.50	3.75
8	BMV1-t	MT20	6.0	8.0	Edge	0.50

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	DOWN	HORZ	UPLIFT
13	5048	0	5048	0	5-8
8	7094	0	7094	0	5-8

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
13	3541	2490 / 0	0 / 0	0 / 0	0 / 0	1050 / 0	0 / 0
8	4979	3483 / 0	0 / 0	0 / 0	0 / 0	1496 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.42 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 (LBS)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	
FR-TO				LENGTH FR-TO			
1-2	0 / 29	-77.3	-77.3 0.06 (1)	10.00	12-3	-1337 / 0	0.14 (1)
2-3	-5843 / 0	-77.3	-77.3 0.18 (1)	3.92	3-11	0 / 870	0.11 (1)
3-4	-6602 / 0	-77.3	-77.3 0.26 (1)	3.63	11-4	0 / 2252	0.28 (1)
4-5	-5744 / 0	-77.3	-77.3 0.19 (1)	3.92	4-10	-1986 / 0	0.48 (1)
5-6	-5787 / 0	-77.3	-77.3 0.23 (1)	3.90	10-5	0 / 6144	0.76 (1)
6-7	-7346 / 0	-77.3	-77.3 0.33 (1)	3.42	10-6	-1819 / 0	0.43 (1)
13-2	-5005 / 0	0.0	0.0 0.18 (1)	6.50	9-6	0 / 1807	0.22 (1)
8-7	-5738 / 0	0.0	0.0 0.21 (1)	6.15	2-12	0 / 5109	0.63 (1)
					9-7	0 / 6303	0.78 (1)
13-12	0 / 0	-17.5	-17.5 0.02 (1)	10.00			
12-11	0 / 4869	-17.5	-17.5 0.52 (1)	10.00			
11-10	0 / 5468	-788.1	-788.1 0.68 (1)	10.00			
10-9	0 / 6118	-788.1	-788.1 0.74 (1)	10.00			
9-8	0 / 0	-788.1	-788.1 0.43 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
11	6-0-12	-3149	-3149	---	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

GIRDER TYPE: CStdGirder
START DISTANCE = 6-0-12
START SPAN CARRIED = 34-11-8
END DISTANCE = 15-8-0
END SPAN CARRIED = 34-11-8
END WALL WIDTH = 5-8
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 (0.52")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (0.52")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.14")

CSI: TC=0.33 (6-7:1), BC=0.74 (9-10:1), WB=0.78 (7-9:1), SSI=0.60 (8-9:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION

JSI GRIP= 0.90 (7)
JSI METAL= 0.61 (7)

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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
9	BMWW-t	MT20	8.0	8.0	4.25	2.75
10	BMWWW+t	MT20	6.0	10.0		
11	BMWW+t	MT20	3.0	8.0		
12	BMWW-t	MT20	4.0	6.0	1.75	1.50
13	BMV1+p	MT20	3.0	4.0		

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

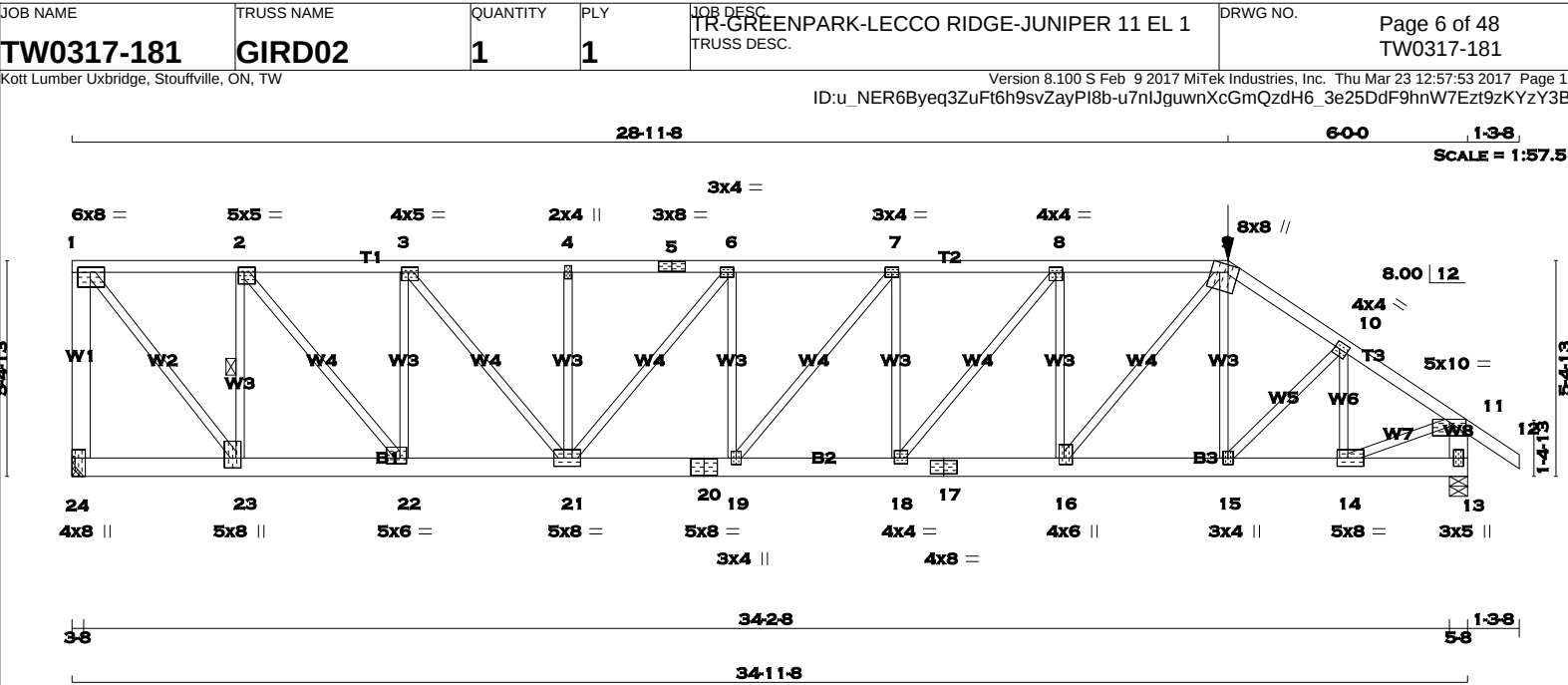
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH
TEE-LOK TL20 PLATES IS ALLOWED.

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S)
REQUIRED TO SUPPORT CONCENTRATED
LOAD(S) 3149.0 lbs FACTORED DOWN AT 6-0-12
ON BOTTOM CHORD. DESIGN FOR
UNSPECIFIED CONNECTION(S) IS DELEGATED
TO THE BUILDING DESIGNER.



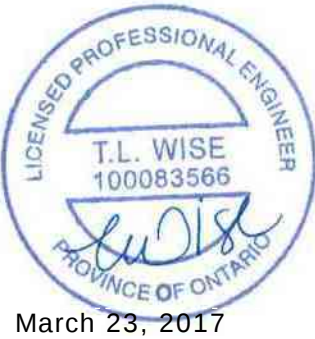
READ ALL NOTES ON THIS PAGE AND ON THE
ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE
IS AN INTEGRAL PART OF THIS DRAWING AS IT
CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.

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BUILDING DIVISION



TOTAL WEIGHT = 184 lb										[M]																																																																																																																																																																																																																																																																																																																																																				
LUMBER N. L. G. A. RULES <table><tr><td>CHORDS</td><td>SIZE</td><td>LUMBER</td><td>DESCR.</td></tr><tr><td>24 - 1</td><td>2x6</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>1 - 5</td><td>2x4</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>5 - 9</td><td>2x4</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>9 - 12</td><td>2x4</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>13 - 11</td><td>2x6</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>24 - 20</td><td>2x6</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>20 - 17</td><td>2x6</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>17 - 13</td><td>2x6</td><td>DRY</td><td>No.2 SPF</td></tr></table> ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.										CHORDS	SIZE	LUMBER	DESCR.	24 - 1	2x6	DRY	No.2 SPF	1 - 5	2x4	DRY	No.2 SPF	5 - 9	2x4	DRY	No.2 SPF	9 - 12	2x4	DRY	No.2 SPF	13 - 11	2x6	DRY	No.2 SPF	24 - 20	2x6	DRY	No.2 SPF	20 - 17	2x6	DRY	No.2 SPF	17 - 13	2x6	DRY	No.2 SPF	DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><td></td><td>FACTORED GROSS REACTION</td><td>MAXIMUM FACTORED GROSS REACTION</td><td>INPUT BRG</td><td>REQRD BRG</td></tr><tr><td>JT</td><td>VERT</td><td>HORZ</td><td>DOWN</td><td>HORZ</td></tr><tr><td>24</td><td>3150</td><td>0</td><td>3150</td><td>0</td></tr><tr><td>13</td><td>3145</td><td>0</td><td>3145</td><td>0</td></tr></table> UNFACTORED REACTIONS <table><tr><td>JT</td><td>1ST LCASE</td><td>MAX./MIN.</td><td>COMPONENT REACTIONS</td></tr><tr><td></td><td>COMBINED</td><td>SNOW</td><td>LIVE PERM.LIVE WIND DEAD SOIL</td></tr><tr><td>24</td><td>2210</td><td>1549 / 0</td><td>0 / 0 0 / 0 661 / 0 0 / 0</td></tr><tr><td>13</td><td>2206</td><td>1546 / 0</td><td>0 / 0 0 / 0 661 / 0 0 / 0</td></tr></table> BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 13 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.12 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 2-23. DBS = 4-0-0 . 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) <table><tr><td colspan="4">C H O R D S</td><td colspan="4">W E B S</td></tr><tr><td>MEMB.</td><td>MAX. FACTORED FORCE (LBS)</td><td>FACTORED VERT. LOAD (PLF)</td><td>LC1 MAX (LC)</td><td>MAX. UNBRAC LENGTH</td><td>MEMB.</td><td>MAX. FACTORED FORCE (LBS)</td><td>MAX. CSI (LC)</td></tr><tr><td>FR-TO</td><td></td><td>FROM TO</td><td></td><td></td><td>FR-TO</td><td></td><td></td></tr><tr><td>24-1</td><td>-3089 / 0</td><td>0.0 0.0 0.95 (1)</td><td>5.96</td><td>1-23</td><td>0 / 3708</td><td>0.92 (1)</td></tr><tr><td>1-2</td><td>-2381 / 0</td><td>-145.8 -145.8 0.51 (1)</td><td>3.85</td><td>23-2</td><td>-2684 / 0</td><td>0.59 (1)</td></tr><tr><td>2-3</td><td>-4014 / 0</td><td>-145.8 -145.8 0.71 (1)</td><td>2.81</td><td>2-22</td><td>0 / 2580</td><td>0.64 (1)</td></tr><tr><td>3-4</td><td>-5065 / 0</td><td>-145.8 -145.8 0.76 (1)</td><td>2.48</td><td>22-3</td><td>-1864 / 0</td><td>0.78 (1)</td></tr><tr><td>4-5</td><td>-5065 / 0</td><td>-145.8 -145.8 0.79 (1)</td><td>2.44</td><td>3-21</td><td>0 / 1662</td><td>0.41 (1)</td></tr><tr><td>5-6</td><td>-5065 / 0</td><td>-145.8 -145.8 0.79 (1)</td><td>2.44</td><td>21-4</td><td>-598 / 0</td><td>0.25 (1)</td></tr><tr><td>6-7</td><td>-5535 / 0</td><td>-145.8 -145.8 0.88 (1)</td><td>2.22</td><td>21-6</td><td>-742 / 0</td><td>0.55 (1)</td></tr><tr><td>7-8</td><td>-5385 / 0</td><td>-145.8 -145.8 0.94 (1)</td><td>2.12</td><td>19-6</td><td>-35 / 97</td><td>0.04 (3)</td></tr><tr><td>8-9</td><td>-4663 / 0</td><td>-145.8 -145.8 0.82 (1)</td><td>2.49</td><td>19-7</td><td>0 / 237</td><td>0.06 (1)</td></tr><tr><td>9-10</td><td>-3941 / 0</td><td>-77.3 -77.3 0.30 (1)</td><td>3.30</td><td>18-7</td><td>-757 / 0</td><td>0.32 (1)</td></tr><tr><td>10-11</td><td>-3463 / 0</td><td>-77.3 -77.3 0.28 (1)</td><td>3.53</td><td>18-8</td><td>0 / 1141</td><td>0.28 (1)</td></tr><tr><td>11-12</td><td>0 / 29</td><td>-77.3 -77.3 0.11 (1)</td><td>10.00</td><td>16-8</td><td>-1551 / 0</td><td>0.65 (1)</td></tr><tr><td>13-11</td><td>-3062 / 0</td><td>0.0 0.0 0.22 (1)</td><td>5.98</td><td>16-9</td><td>0 / 2183</td><td>0.54 (1)</td></tr><tr><td></td><td></td><td></td><td></td><td>15-9</td><td>-185 / 61</td><td>0.08 (1)</td></tr><tr><td>24-23</td><td>0 / 0</td><td>-33.0 -33.0 0.07 (3)</td><td>10.00</td><td>15-10</td><td>0 / 532</td><td>0.13 (1)</td></tr><tr><td>23-22</td><td>0 / 2381</td><td>-33.0 -33.0 0.36 (1)</td><td>10.00</td><td>14-10</td><td>-915 / 0</td><td>0.19 (1)</td></tr><tr><td>22-21</td><td>0 / 4014</td><td>-33.0 -33.0 0.60 (1)</td><td>10.00</td><td>14-11</td><td>0 / 3035</td><td>0.75 (1)</td></tr><tr><td>21-20</td><td>0 / 5535</td><td>-33.0 -33.0 0.80 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>20-19</td><td>0 / 5535</td><td>-33.0 -33.0 0.80 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>19-18</td><td>0 / 5385</td><td>-33.0 -33.0 0.77 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>18-17</td><td>0 / 4663</td><td>-33.0 -33.0 0.67 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>17-16</td><td>0 / 4663</td><td>-33.0 -33.0 0.67 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>16-15</td><td>0 / 3258</td><td>-33.0 -33.0 0.48 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>15-14</td><td>0 / 2890</td><td>-33.0 -33.0 0.45 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>14-13</td><td>0 / 0</td><td>-33.0 -33.0 0.08 (1)</td><td>10.00</td><td></td><td></td><td></td></tr></table> FACTORED CONCENTRATED LOADS (LBS) <table><tr><td>JT</td><td>LOC.</td><td>LC1</td><td>MAX-</td><td>MAX+</td><td>FACE</td><td>DIR.</td><td>TYPE</td></tr><tr><td>9</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	HORZ	24	3150	0	3150	0	13	3145	0	3145	0	JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS		COMBINED	SNOW	LIVE PERM.LIVE WIND DEAD SOIL	24	2210	1549 / 0	0 / 0 0 / 0 661 / 0 0 / 0	13	2206	1546 / 0	0 / 0 0 / 0 661 / 0 0 / 0	C H O R D S				W E B S				MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	FR-TO		FROM TO			FR-TO			24-1	-3089 / 0	0.0 0.0 0.95 (1)	5.96	1-23	0 / 3708	0.92 (1)	1-2	-2381 / 0	-145.8 -145.8 0.51 (1)	3.85	23-2	-2684 / 0	0.59 (1)	2-3	-4014 / 0	-145.8 -145.8 0.71 (1)	2.81	2-22	0 / 2580	0.64 (1)	3-4	-5065 / 0	-145.8 -145.8 0.76 (1)	2.48	22-3	-1864 / 0	0.78 (1)	4-5	-5065 / 0	-145.8 -145.8 0.79 (1)	2.44	3-21	0 / 1662	0.41 (1)	5-6	-5065 / 0	-145.8 -145.8 0.79 (1)	2.44	21-4	-598 / 0	0.25 (1)	6-7	-5535 / 0	-145.8 -145.8 0.88 (1)	2.22	21-6	-742 / 0	0.55 (1)	7-8	-5385 / 0	-145.8 -145.8 0.94 (1)	2.12	19-6	-35 / 97	0.04 (3)	8-9	-4663 / 0	-145.8 -145.8 0.82 (1)	2.49	19-7	0 / 237	0.06 (1)	9-10	-3941 / 0	-77.3 -77.3 0.30 (1)	3.30	18-7	-757 / 0	0.32 (1)	10-11	-3463 / 0	-77.3 -77.3 0.28 (1)	3.53	18-8	0 / 1141	0.28 (1)	11-12	0 / 29	-77.3 -77.3 0.11 (1)	10.00	16-8	-1551 / 0	0.65 (1)	13-11	-3062 / 0	0.0 0.0 0.22 (1)	5.98	16-9	0 / 2183	0.54 (1)					15-9	-185 / 61	0.08 (1)	24-23	0 / 0	-33.0 -33.0 0.07 (3)	10.00	15-10	0 / 532	0.13 (1)	23-22	0 / 2381	-33.0 -33.0 0.36 (1)	10.00	14-10	-915 / 0	0.19 (1)	22-21	0 / 4014	-33.0 -33.0 0.60 (1)	10.00	14-11	0 / 3035	0.75 (1)	21-20	0 / 5535	-33.0 -33.0 0.80 (1)	10.00				20-19	0 / 5535	-33.0 -33.0 0.80 (1)	10.00				19-18	0 / 5385	-33.0 -33.0 0.77 (1)	10.00				18-17	0 / 4663	-33.0 -33.0 0.67 (1)	10.00				17-16	0 / 4663	-33.0 -33.0 0.67 (1)	10.00				16-15	0 / 3258	-33.0 -33.0 0.48 (1)	10.00				15-14	0 / 2890	-33.0 -33.0 0.45 (1)	10.00				14-13	0 / 0	-33.0 -33.0 0.08 (1)	10.00				JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	9	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>33.3</td><td>PSF</td><td></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 = 0-0 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 (0.30") ALLOWABLE DEFL.(TL)= L/360 (1.17") CALCULATED VERT. DEFL.(TL) = L/ 798 (0.53") CSI: TC=0.95 (1-24:1) , BC=0.80 (19-21:1) , WB=0.92 (1-23:1) , SSI=0.32 (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 <table><tr><td>PLATE GRIP(DRY)</td><td>SHEAR (PSI)</td><td>SECTION (PLI)</td></tr><tr><td>MAX MIN</td><td>MAX MIN</td><td>MAX MIN</td></tr><tr><td>MT20 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 (23) (INPUT = 0.90) JSI METAL= 0.97 (17) (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)	SHEAR (PSI)	SECTION (PLI)	MAX MIN	MAX MIN	MAX MIN	MT20 618 354	1667 822	2284 1656
CHORDS	SIZE	LUMBER	DESCR.																																																																																																																																																																																																																																																																																																																																																											
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2-3	-4014 / 0	-145.8 -145.8 0.71 (1)	2.81	2-22	0 / 2580	0.64 (1)																																																																																																																																																																																																																																																																																																																																																								
3-4	-5065 / 0	-145.8 -145.8 0.76 (1)	2.48	22-3	-1864 / 0	0.78 (1)																																																																																																																																																																																																																																																																																																																																																								
4-5	-5065 / 0	-145.8 -145.8 0.79 (1)	2.44	3-21	0 / 1662	0.41 (1)																																																																																																																																																																																																																																																																																																																																																								
5-6	-5065 / 0	-145.8 -145.8 0.79 (1)	2.44	21-4	-598 / 0	0.25 (1)																																																																																																																																																																																																																																																																																																																																																								
6-7	-5535 / 0	-145.8 -145.8 0.88 (1)	2.22	21-6	-742 / 0	0.55 (1)																																																																																																																																																																																																																																																																																																																																																								
7-8	-5385 / 0	-145.8 -145.8 0.94 (1)	2.12	19-6	-35 / 97	0.04 (3)																																																																																																																																																																																																																																																																																																																																																								
8-9	-4663 / 0	-145.8 -145.8 0.82 (1)	2.49	19-7	0 / 237	0.06 (1)																																																																																																																																																																																																																																																																																																																																																								
9-10	-3941 / 0	-77.3 -77.3 0.30 (1)	3.30	18-7	-757 / 0	0.32 (1)																																																																																																																																																																																																																																																																																																																																																								
10-11	-3463 / 0	-77.3 -77.3 0.28 (1)	3.53	18-8	0 / 1141	0.28 (1)																																																																																																																																																																																																																																																																																																																																																								
11-12	0 / 29	-77.3 -77.3 0.11 (1)	10.00	16-8	-1551 / 0	0.65 (1)																																																																																																																																																																																																																																																																																																																																																								
13-11	-3062 / 0	0.0 0.0 0.22 (1)	5.98	16-9	0 / 2183	0.54 (1)																																																																																																																																																																																																																																																																																																																																																								
				15-9	-185 / 61	0.08 (1)																																																																																																																																																																																																																																																																																																																																																								
24-23	0 / 0	-33.0 -33.0 0.07 (3)	10.00	15-10	0 / 532	0.13 (1)																																																																																																																																																																																																																																																																																																																																																								
23-22	0 / 2381	-33.0 -33.0 0.36 (1)	10.00	14-10	-915 / 0	0.19 (1)																																																																																																																																																																																																																																																																																																																																																								
22-21	0 / 4014	-33.0 -33.0 0.60 (1)	10.00	14-11	0 / 3035	0.75 (1)																																																																																																																																																																																																																																																																																																																																																								
21-20	0 / 5535	-33.0 -33.0 0.80 (1)	10.00																																																																																																																																																																																																																																																																																																																																																											
20-19	0 / 5535	-33.0 -33.0 0.80 (1)	10.00																																																																																																																																																																																																																																																																																																																																																											
19-18	0 / 5385	-33.0 -33.0 0.77 (1)	10.00																																																																																																																																																																																																																																																																																																																																																											
18-17	0 / 4663	-33.0 -33.0 0.67 (1)	10.00																																																																																																																																																																																																																																																																																																																																																											
17-16	0 / 4663	-33.0 -33.0 0.67 (1)	10.00																																																																																																																																																																																																																																																																																																																																																											
16-15	0 / 3258	-33.0 -33.0 0.48 (1)	10.00																																																																																																																																																																																																																																																																																																																																																											
15-14	0 / 2890	-33.0 -33.0 0.45 (1)	10.00																																																																																																																																																																																																																																																																																																																																																											
14-13	0 / 0	-33.0 -33.0 0.08 (1)	10.00																																																																																																																																																																																																																																																																																																																																																											
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE																																																																																																																																																																																																																																																																																																																																																							
9	28-11-8	-348	-348	---	FRONT	VERT	TOTAL																																																																																																																																																																																																																																																																																																																																																							
TOP CH.	LL	=	23.3	PSF																																																																																																																																																																																																																																																																																																																																																										
	DL	=	3.0	PSF																																																																																																																																																																																																																																																																																																																																																										
BOT CH.	LL	=	0.0	PSF																																																																																																																																																																																																																																																																																																																																																										
	DL	=	7.0	PSF																																																																																																																																																																																																																																																																																																																																																										
TOTAL LOAD	=	33.3	PSF																																																																																																																																																																																																																																																																																																																																																											
PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)																																																																																																																																																																																																																																																																																																																																																												
MAX MIN	MAX MIN	MAX MIN																																																																																																																																																																																																																																																																																																																																																												
MT20 618 354	1667 822	2284 1656																																																																																																																																																																																																																																																																																																																																																												

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TOWN OF MILTON
MAR 29, 2017
JUNIPER 11F
BUILDING DIVISION

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC. TRUSS DESC.	DRWG NO.
TW0317-181	GIRD02	1	1	TR-GREENPARK-LECCO RIDGE-JUNIPER 11 EL 1	Page 7 of 48 TW0317-181

Kott Lumber Uxbridge, Stouffville, ON, TW

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Thu Mar 23 12:57:53 2017 Page 2

ID:u_NER6Byeq3ZuFt6h9svZayPI8b-u7nIJguwnXcGmQzdH6_3e25DdF9hnW7Ezt9zKYzY3Bi

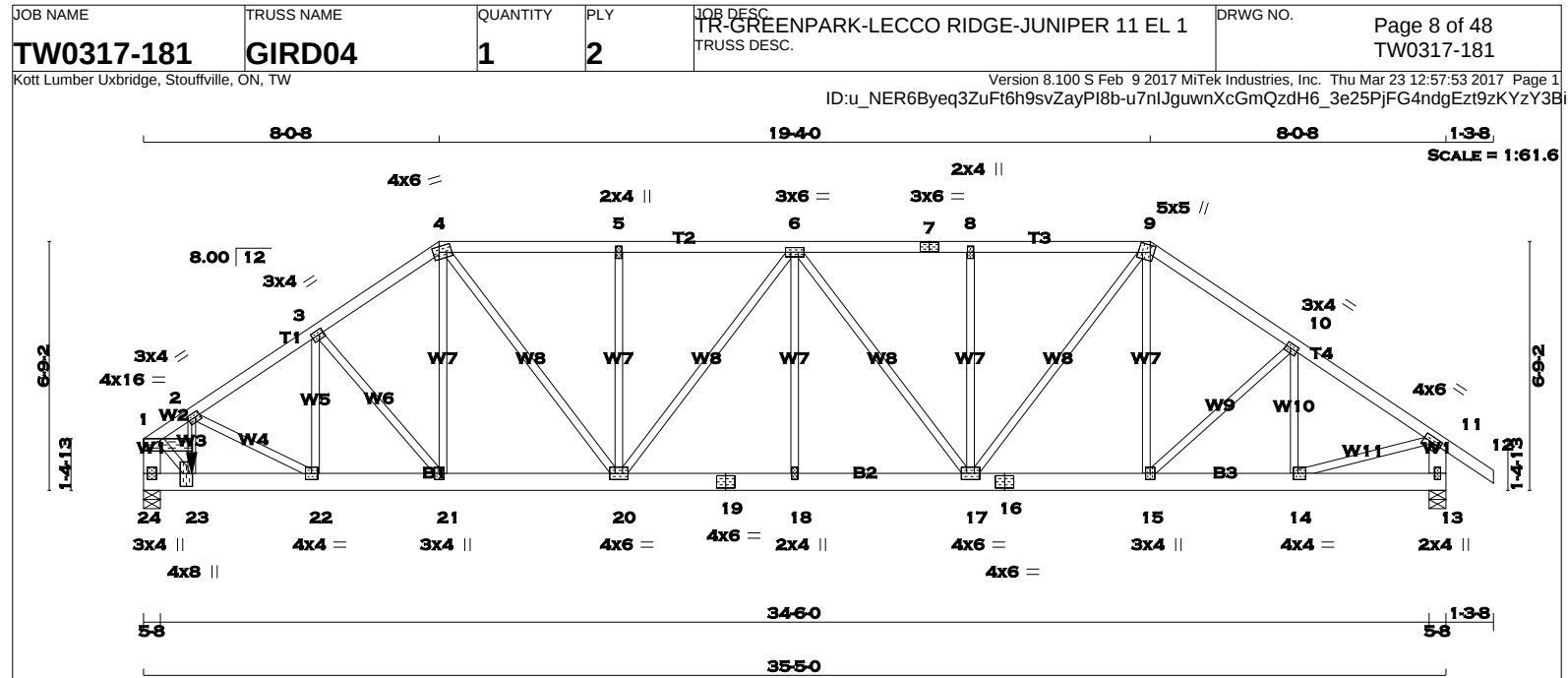
HANGERS NOTES

- 1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 348.1 lbs FACTORED DOWN AT 28-11-8 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.

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BUILDING DIVISION



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. LUMBER DESCR. 1 - 4 2x4 DRY No.2 SPF 4 - 7 2x4 DRY No.2 SPF 7 - 9 2x4 DRY No.2 SPF 9 - 12 2x4 DRY No.2 SPF 24 - 1 2x6 DRY No.2 SPF 13 - 11 2x6 DRY No.2 SPF 24 - 19 2x6 DRY No.2 SPF 19 - 16 2x6 DRY No.2 SPF 16 - 13 2x6 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT 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 TOP 4-7 1 12 TOP 7-9 1 12 TOP 9-12 1 12 TOP 24-1 2 12 TOP 13-11 2 12 TOP BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS 24-19 2 12 SIDE(0.0) 19-16 2 12 TOP 16-13 2 12 TOP 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 JT VERT HORZ 24 4896 0 13 1910 0 MAXIMUM FACTORED GROSS REACTION DOWN HORZ UPLIFT 4896 0 0 1910 0 0 INPUT BRG IN-SX 5-8 5-8 5-8 REQRD BRG IN-SX 5-8 5-8 5-8 UNFACTORED REACTIONS 1ST LCASE MAX/MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 24 3436 2404 / 0 0 / 0 0 / 0 1032 / 0 0 / 0 13 1338 949 / 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 MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD LC1 MAX (PLF) MAX. CSI (LC) UNBRAC LENGTH FR-TO MEMB. WEBS MAX. FACTORED FORCE (LBS) MAX. CSI (LC) FR-TO FROM TO 1-2 -3861 / 0 -77.3 -77.3 0.06 (1) 4.79 23-2 0 / 592 0.07 (1) 2-3 -3118 / 0 -77.3 -77.3 0.11 (1) 5.16 2-22 -687 / 0 0.09 (1) 3-4 -2624 / 0 -77.3 -77.3 0.10 (1) 5.53 22-3 0 / 492 0.06 (1) 4-5 -2622 / 0 -77.3 -77.3 0.17 (1) 5.44 3-21 -687 / 0 0.17 (1) 5-6 -2622 / 0 -77.3 -77.3 0.17 (1) 5.44 21-4 0 / 608 0.08 (1) 6-7 -2436 / 0 -77.3 -77.3 0.17 (1) 5.60 4-20 0 / 734 0.09 (1) 7-8 -2436 / 0 -77.3 -77.3 0.17 (1) 5.60 20-5 -414 / 0 0.15 (1) 8-9 -2435 / 0 -77.3 -77.3 0.17 (1) 5.60 20-6 -118 / 0 0.08 (1) 9-10 -2189 / 0 -77.3 -77.3 0.13 (1) 5.88 18-6 0 / 92 0.02 (3) 10-11 -2138 / 0 -77.3 -77.3 0.13 (1) 5.93 6-17 -430 / 0 0.28 (1) 11-12 0 / 29 -77.3 -77.3 0.06 (1) 10.00 17-8 -415 / 0 0.15 (1) 24-1 -4634 / 0 0.0 0.0 0.17 (1) 6.71 17-9 0 / 1039 0.13 (1) 13-11 -1862 / 0 0.0 0.0 0.07 (1) 7.81 15-9 0 / 108 0.02 (3) 15-10 0 / 10 0.00 (3) 24-23 0 / 0 -17.5 -17.5 0.12 (1) 10.00 14-10 -398 / 0 0.05 (1) 23-22 0 / 3209 -17.5 -17.5 0.33 (1) 10.00 1-23 0 / 4029 0.50 (1) 22-21 0 / 2608 -17.5 -17.5 0.18 (1) 10.00 14-11 0 / 1846 0.23 (1) 21-20 0 / 2176 -17.5 -17.5 0.15 (1) 10.00 20-19 0 / 2693 -17.5 -17.5 0.19 (1) 10.00 19-18 0 / 2693 -17.5 -17.5 0.19 (1) 10.00 18-17 0 / 2693 -17.5 -17.5 0.19 (1) 10.00 17-16 0 / 1803 -17.5 -17.5 0.14 (1) 10.00 16-15 0 / 1803 -17.5 -17.5 0.14 (1) 10.00 15-14 0 / 1795 -17.5 -17.5 0.14 (1) 10.00 14-13 0 / 0 -17.5 -17.5 0.02 (1) 10.00 FACTORED CONCENTRATED LOADS (LBS) JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE 23 1-3-12 -3340 -3340 --- 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 *** 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 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 (10) (INPUT = 0.90) JSI METAL= 0.52 (23) (INPUT = 1.00) RECEIVED TOWN OF MILTON MAR 29, 2017 JUNIPER 11F BUILDING DIVISION TOTAL WEIGHT = 2 X 184 = 368 lb [M] CONTINUED ON PAGE 2		
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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, 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.

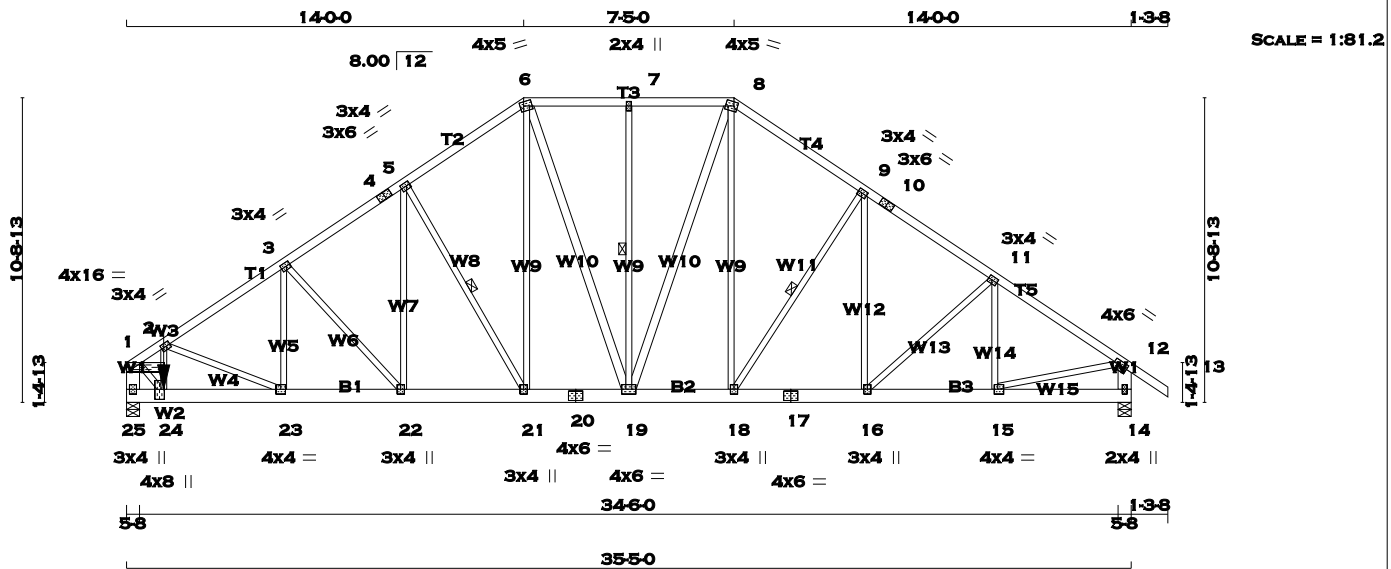
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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			
CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
6 - 8	2x4	DRY	No.2
8 - 10	2x4	DRY	No.2
10 - 13	2x4	DRY	No.2
25 - 1	2x6	DRY	No.2
14 - 12	2x6	DRY	No.2
25 - 20	2x6	DRY	No.2
20 - 17	2x6	DRY	No.2
17 - 14	2x6	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
6 - 19	2x4	DRY	No.2
19 - 8	2x4	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	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	0	4896	0	0	5-8	5-8	
14	1910	0	0	1910	0	0	5-8	5-8	

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE
25	3436	2404 / 0	0 / 0
14	1338	949 / 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

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)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH	FACTORED 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
14-12	-1863 / 0	0.0	0.0	0.07 (1)	7.81	16-11	-76 / 0
						15-11	-309 / 0
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)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
24	1-3-12	-3340	-3340	---	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

*** 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 822 2284 1656

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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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, 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	BMWWW-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.

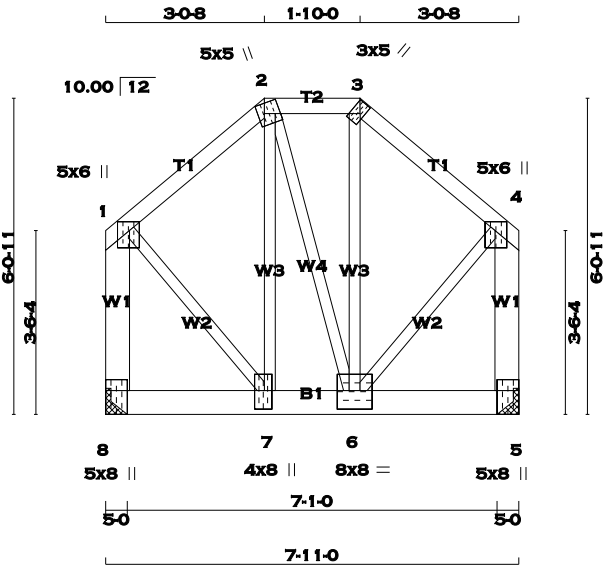
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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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TOTAL WEIGHT = 57 lb [M]

LUMBER		N. L. G. A. RULES		LUMBER	DESCR.
CHORDS	SIZE				
1 - 2	2x4	DRY	No.2	SPF	SPF
2 - 3	2x4	DRY	No.2		SPF
3 - 4	2x4	DRY	No.2		SPF
8 - 1	2x6	DRY	No.2		SPF
5 - 4	2x6	DRY	No.2		SPF
8 - 5	2x6	DRY	No.2		SPF
ALL WEBS 2x3 DRY No.2 EXCEPT					SPF

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	TTWW+m	MT20	5.0	5.0	2.25	1.50
3	TTW+h	MT20	3.0	5.0	2.50	1.00
4	TMVW+p	MT20	5.0	6.0	2.00	2.25
5	BMV1+t	MT20	5.0	8.0	Edge	0.50
6	BMVWW-t	MT20	8.0	8.0	4.25	4.00
7	BMVWW+t	MT20	4.0	8.0	4.25	1.75
8	BMV1+t	MT20	5.0	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.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
8	3340	0		3340	0	0	HANGER BY OTHERS		
5	3340	0		3340	0	0	MIN. SEAT SIZE: 5-0		

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
8	2344	1640 / 0	0 / 0	0 / 0	0 / 0	704 / 0	0 / 0
5	2344	1640 / 0	0 / 0	0 / 0	0 / 0	704 / 0	0 / 0

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.06 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	-1544 / 0	-77.3	-77.3	0.17 (1)	5.10	7-2	0 / 729
2-3	-1218 / 0	-77.3	-77.3	0.07 (1)	5.72	2-6	0 / 79
3-4	-1572 / 0	-77.3	-77.3	0.18 (1)	5.06	6-3	0 / 823
8-1	-2277 / 0	0.0	0.0	0.31 (1)	6.75	1-7	0 / 1660
5-4	-2316 / 0	0.0	0.0	0.32 (1)	6.71	6-4	0 / 1690
8-7	0 / 0	-766.4	-766.4	0.54 (1)	10.00		
7-6	0 / 1195	-766.4	-766.4	0.58 (1)	10.00		
6-5	0 / 0	-766.4	-766.4	0.50 (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: 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.
- 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 (0.26")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.26")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.32 (4-5:1) , BC=0.58 (6-7:1) , WB=0.42 (4-6:1) , SSI=0.92 (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

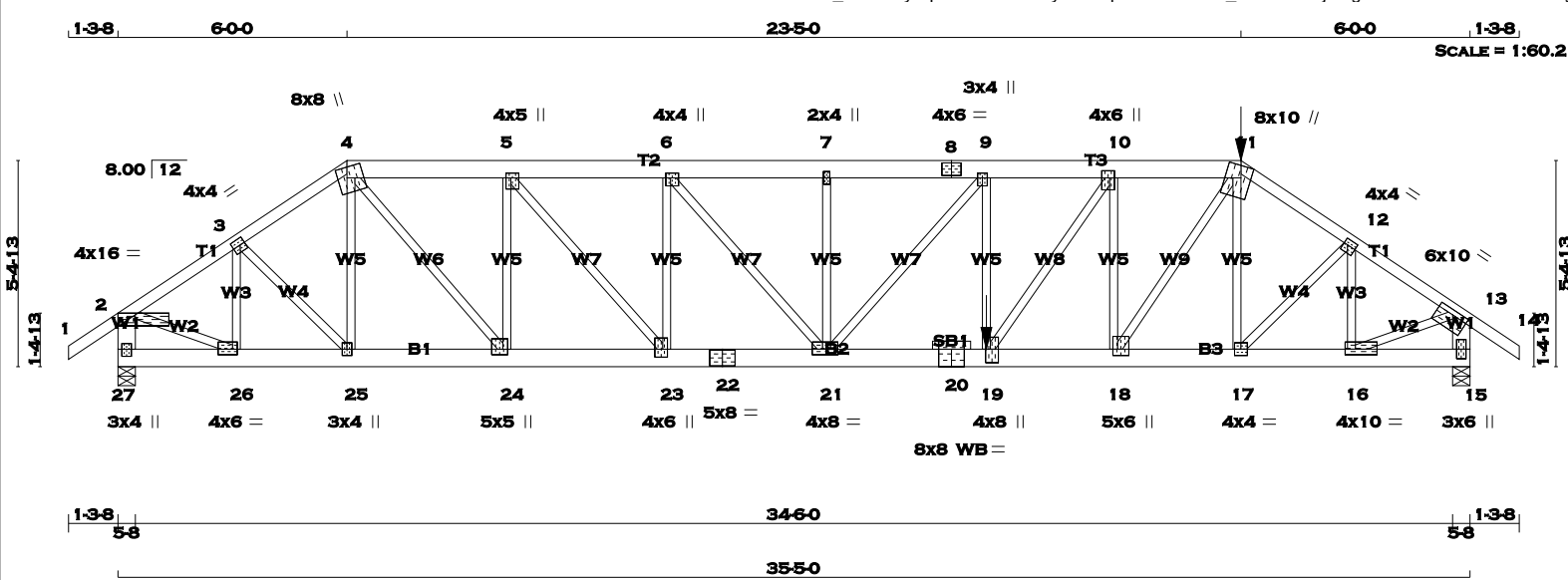
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (3) (INPUT = 0.90)
JSI METAL= 0.39 (7) (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 = 199 lb
[M]

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 EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-p	MT20	4.0	16.0	Edge 5.50
3	TMVW-t	MT20	4.0	4.0	2.00 1.50
4	TTVW+m	MT20	8.0	8.0	4.00 2.75
5	TMVW+t	MT20	4.0	5.0	1.50 1.50
6	TMVW+t	MT20	4.0	4.0	1.50 1.50
7	TMVW+w	MT20	2.0	4.0	
8	TS-t	MT20	4.0	6.0	
9	TMVW+t	MT20	3.0	4.0	1.50 1.50
10	TMVW+t	MT20	4.0	6.0	2.25 1.50
11	TTVW+m	MT20	8.0	10.0	4.50 2.50
12	TMVW-t	MT20	4.0	4.0	1.75 1.25
13	TMVW-t	MT20	6.0	10.0	1.50 5.00
15	BMV1+p	MT20	3.0	6.0	
16	BMVW-t	MT20	4.0	10.0	1.75 3.25
17	BMVW-t	MT20	4.0	4.0	
18	BMVW+t	MT20	5.0	6.0	2.00 1.50
19	BMVW+t	MT20	4.0	8.0	4.25 1.50
20	BS-t	MT20	8.0	8.0	
21	BMVWVW-t	MT20	4.0	8.0	1.75 3.25
22	BS-t	MT20	5.0	8.0	
23	BMVW+t	MT20	4.0	6.0	2.50 1.50
24	BMVW+t	MT20	5.0	5.0	1.75 1.50
25	BMVW+t	MT20	3.0	4.0	
26	BMVW-t	MT20	4.0	6.0	1.75 1.50
27	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.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
GROSS REACTION		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	JT	HORZ	JT	HORZ	JT	UPLIFT	JT	IN-SX
27	2787	0	2787	0	0	5-8	5-8	5-8	5-8
15	3986	0	3986	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	JT	SNOW	JT	LIVE	JT	PERM.LIVE
27	1953	1383 / 0	0 / 0	0 / 0	0 / 0	570 / 0	0 / 0
15	2797	1959 / 0	0 / 0	0 / 0	0 / 0	838 / 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 = 2.72 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING				TOTAL LOAD CASES: (3)			
CHORDS		WEBS		FACTORED		FACTORED	
MEMB.	FORCE (LBS)	MEMB.	FORCE (LBS)	MEMB.	FORCE (LBS)	MEMB.	FORCE (LBS)
FR-TO		FR-TO		FR-TO		FR-TO	
1-2	0 / 29	-77.3	-77.3 0.11 (1)	10.00	26-3	-873 / 0	0.18 (1)
2-3	-3049 / 0	-77.3	-77.3 0.23 (1)	3.78	3-25	0 / 530	0.13 (1)
3-4	-3503 / 0	-77.3	-77.3 0.27 (1)	3.52	25-4	-223 / 0	0.09 (1)
4-5	-4546 / 0	-77.3	-77.3 0.23 (1)	3.90	4-24	0 / 2535	0.63 (1)
5-6	-5815 / 0	-77.3	-77.3 0.30 (1)	3.44	24-5	-1883 / 0	0.74 (1)
6-7	-6770 / 0	-77.3	-77.3 0.39 (1)	3.12	5-23	0 / 1963	0.49 (1)
7-8	-6770 / 0	-77.3	-77.3 0.41 (1)	3.10	23-6	-1438 / 0	0.56 (1)
8-9	-6770 / 0	-77.3	-77.3 0.41 (1)	3.10	6-21	0 / 1478	0.37 (1)
9-10	-7324 / 0	-145.8	-145.8 0.48 (1)	2.90	21-7	-340 / 0	0.13 (1)
10-11	-6057 / 0	-145.8	-145.8 0.38 (1)	3.29	21-9	-857 / 0	0.62 (1)
11-12	-5176 / 0	-77.3	-77.3 0.46 (1)	2.72	19-9	0 / 274	0.07 (1)
12-13	-4460 / 0	-77.3	-77.3 0.39 (1)	3.02	19-10	0 / 2266	0.56 (1)
13-14	0 / 29	-77.3	-77.3 0.11 (1)	10.00	18-10	-2438 / 0	0.96 (1)
27-2	-2721 / 0	0.0	0.0 0.19 (1)	6.29	18-11	0 / 3139	0.78 (1)
15-13	-3883 / 0	0.0	0.0 0.28 (1)	5.39	17-11	-393 / 0	0.15 (1)
					17-12	0 / 855	0.21 (1)
27-26	0 / 0	-17.5	-17.5 0.05 (1)	10.00	16-12	-1236 / 0	0.26 (1)
26-25	0 / 2546	-17.5	-17.5 0.18 (1)	10.00	2-26	0 / 2674	0.66 (1)
25-24	0 / 2912	-17.5	-17.5 0.19 (1)	10.00	16-13	0 / 3906	0.97 (1)
24-23	0 / 4546	-17.5	-17.5 0.27 (1)	10.00			
23-22	0 / 5815	-17.5	-17.5 0.34 (1)	10.00			
22-21	0 / 5815	-17.5	-17.5 0.34 (1)	10.00			
21-20	0 / 7324	-17.5	-17.5 0.49 (1)	10.00			
20-19	0 / 7324	-17.5	-17.5 0.49 (1)	10.00			
19-18	0 / 6057	-33.0	-33.0 0.42 (1)	10.00			
18-17	0 / 4309	-33.0	-33.0 0.27 (1)	10.00			
17-16	0 / 3719	-33.0	-33.0 0.26 (1)	10.00			
16-15	0 / 0	-33.0	-33.0 0.07 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)							
JT	LOC.	JT	LOC.	JT	LOC.	JT	LOC.
11	29-5-0	-348	-348	---	FRONT	DIR.	TYPE
19	22-9-0	-2201	-2201	---	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.

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: CPrimeHip
SIDE 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.
LOADS APPLIED TO FIRST 12-8-0 OF SPAN
MEASURED FROM THE RIGHT.

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 (0.28")
ALLOWABLE DEFL.(TL)= L/360 (1.18")
CALCULATED VERT. DEFL.(TL) = L/860 (0.49")

CSI: TC=0.48 (9-10:1) , BC=0.49 (19-21:1) , WB=0.97 (13-16:1) , SSI=0.17 (10-11:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI)
MAX MIN
MT20 618 354
PLATE PLACEMENT
PLATE ROTATION

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MAR 29, 2017
JUNIPER 11F
BUILDING DIVISION

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
TW0317-181	GIRD08	1	1	TR- GREENPARK-LECCO RIDGE-JUNIPER 11 EL 1	Page 14 of 48 TW0317-181

Kott Lumber Uxbridge, Stouffville, ON, TW

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Thu Mar 23 12:57:55 2017 Page 2

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WB - INDICATES BLOCKING REQUIRED

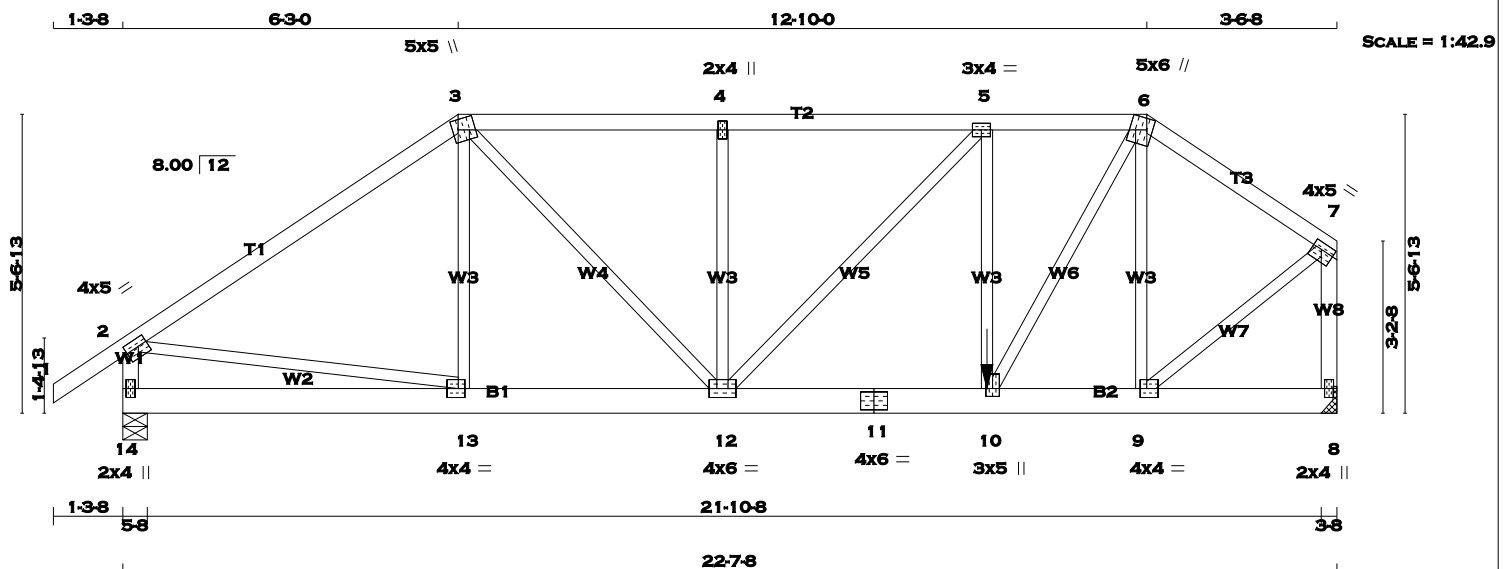
HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 348.1 lbs FACTORED DOWN AT .29-5-0 ON TOP CHORD AND 2201.4 lbs FACTORED DOWN AT .22-9-0 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

JSI GRIP= 0.90 (12) (INPUT = 0.90)
JSI METAL= 0.93 (20) (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	
14 - 2	2x4	DRY	No.2	SPF	
8 - 7	2x4	DRY	No.2	SPF	
14 - 11	2x6	DRY	No.2	SPF	
11 - 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
2	TMVW-t	MT20	4.0	5.0	1.75	2.00
3	TTWW+m	MT20	5.0	5.0	2.25	1.25
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	5.0	1.50	2.00
8	BMV1+p	MT20	2.0	4.0		
9	BMVW-t	MT20	4.0	4.0	2.00	1.50
10	BMVW+t	MT20	3.0	5.0	1.75	1.50
11	BS-t	MT20	4.0	6.0		
12	BMVWV-t	MT20	4.0	6.0		
13	BMVW-t	MT20	4.0	4.0	2.00	1.50
14	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.						

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 532.9 lbs FACTORED DOWN AT 16-1-4 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		MAXIMUM FACTORED		INPUT		REQRD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
14		1333	0	1333	0	0	5-8	5-8	
8		1452	0	1452	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	SOIL	
14		933	666 / 0	0 / 0	0 / 0	0 / 0	267 / 0	0 / 0	
8		1019	713 / 0	0 / 0	0 / 0	0 / 0	306 / 0	0 / 0	

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 14									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.55 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.									
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.									
LOADING									
TOTAL LOAD CASES: (3)									
		CHORDS			WEBS				
		MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	FACTORED MAX. (LC)
FR-TO				FROM	TO	FR-TO			
1-2	0 / 29		-77.3	-77.3	0.11 (1)	10.00	13-3	-63 / 74	0.03 (1)
2-3	-1365 / 0		-77.3	-77.3	0.72 (1)	4.55	3-12	0 / 586	0.15 (1)
3-4	-1537 / 0		-77.3	-77.3	0.35 (1)	4.87	12-4	-435 / 0	0.20 (1)
4-5	-1537 / 0		-77.3	-77.3	0.35 (1)	4.87	12-5	0 / 128	0.03 (1)
5-6	-1449 / 0		-77.3	-77.3	0.19 (1)	5.20	10-5	-407 / 0	0.18 (1)
6-7	-1085 / 0		-77.3	-77.3	0.21 (1)	5.79	10-6	0 / 1122	0.28 (1)
14-2	-1284 / 0		0.0	0.0	0.14 (1)	7.08	9-6	-593 / 0	0.27 (1)
8-7	-1434 / 0		0.0	0.0	0.25 (1)	6.77	2-13	0 / 1148	0.28 (1)
							9-7	0 / 1137	0.28 (1)
14-13	0 / 0		-17.5	-17.5	0.08 (3)	10.00			
13-12	0 / 1133		-17.5	-17.5	0.18 (1)	10.00			
12-11	0 / 1449		-17.5	-17.5	0.24 (1)	10.00			
11-10	0 / 1449		-17.5	-17.5	0.24 (1)	10.00			
10-9	0 / 889		-17.5	-17.5	0.15 (1)	10.00			
9-8	0 / 0		-17.5	-17.5	0.04 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)						
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.
10	16-1-4	-533	-533	---	FRONT	VERT
						TYPE 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

*** 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 (0.09")

CSI: TC=0.72 (2-3:1), BC=0.24 (10-12:1), WB=0.28 (2-13:1), 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

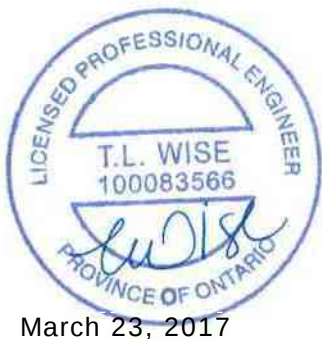
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

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

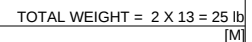
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (13) (INPUT = 0.90)
JSI METAL= 0.47 (2) (INPUT = 1.00)



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DRY: SEASONED LUMBER.

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

FACTORED GROSS REACTION			MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
5	265	0	265	0	0	5-8	5-8
3	60	0	60	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

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					SOIL
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	
5	188	123 / 0	0 / 0	0 / 0	0 / 0	65 / 0	0 / 0
3	40	36 / 0	0 / 0	0 / 0	0 / 0	5 / 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

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.

TOTAL LOAD CASES: (3)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	TO		LENGTH	FR-TO			
5-2	-204 / 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	-11 / 0	-77.3	-77.3	0.05 (1)	6.25				
5-4	0 / 0	-17.5	-17.5	0.13 (3)	10.00				

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

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=0.12 (2-5:3) , BC=0.13 (4-5:3) , WB=0.00 (n/a:0) , SSI=0.08 (4-5:3)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

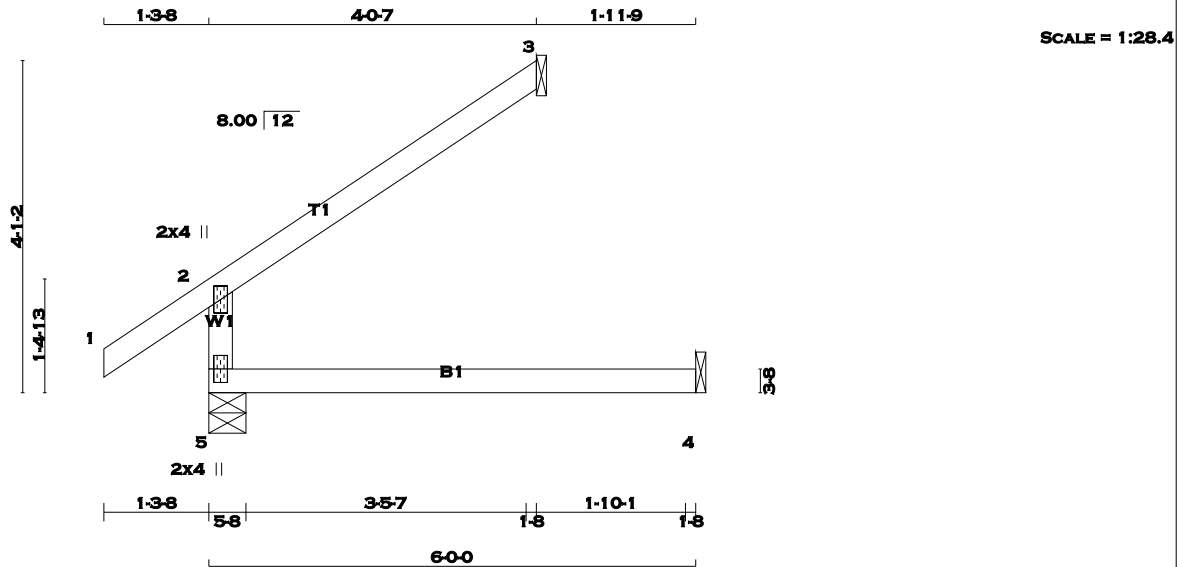


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Kott Lumber Uxbridge, Stouffville, ON, TW

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Thu Mar 23 12:57:56 2017 Page 1
ID:u_NER6Byeq3ZuFt6h9svZayPI8b-liSRyiw3S_rdtHCyEXmFgjkSKv_4CgfrOewtzY3Bf



TOTAL WEIGHT = 2 X 15 = 31 lb [M]

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

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		FACTORED		WEBS		FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX. CSI (LC)	MAX. UNBRAC	MEMB. FORCE (LBS)	MAX. CSI (LC)	
FR-TO					LENGTH 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)			
	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)

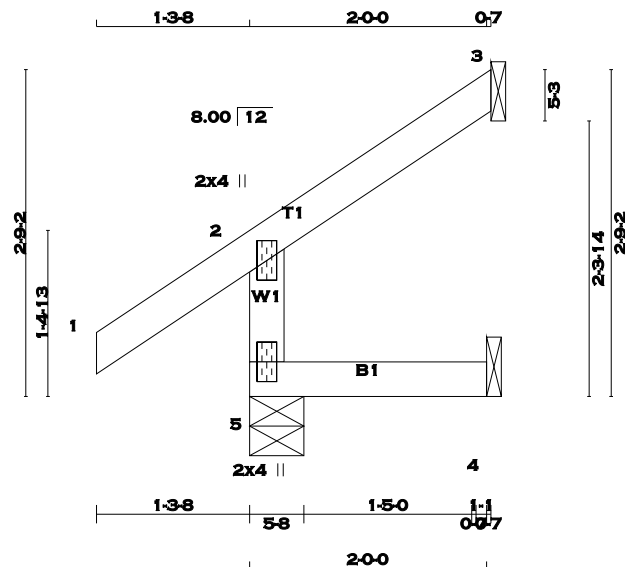


March 23, 2017



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

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	223	0	223	0	0	5-8	5-8	
3	60	0	60	0	0	1-8	1-8	
4	16	0	18	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		LIVE	PERM.LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	SNOW	WIND					
5	154	123 / 0	0 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0	0 / 0
3	40	36 / 0	0 / 0	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0	0 / 0
4	13	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0	0 / 0

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

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

LOADING
 TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. FORCE (LBS)	VERT. LOAD (PLF)
FR-TO			FROM TO		FR-TO		FROM TO	
5-2	-204 / 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	-11 / 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

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)

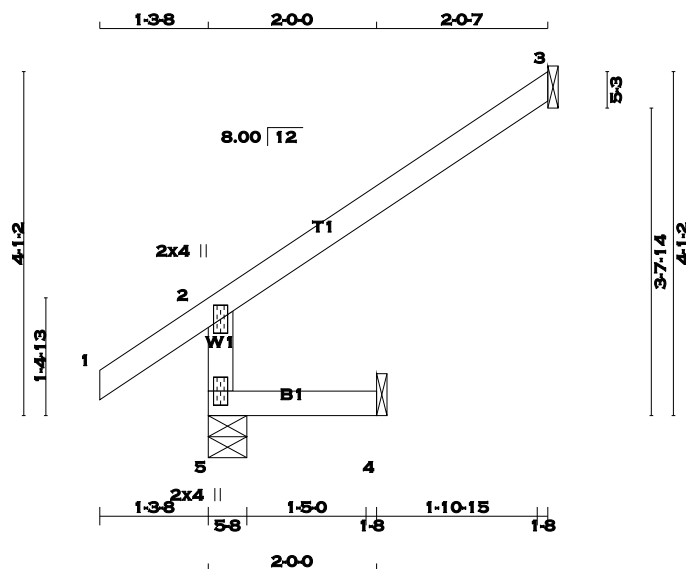


March 23, 2017



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RECEIVED
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JUNIPER 11F
BUILDING DIVISION



TOTAL WEIGHT = 2 X 11 = 22 lb [M]

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

		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
5		320	0	320	0	0	5-8	5-8	
3		117	0	117	0	0	1-8	1-8	
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. SNOW	MAX./MIN. LIVE	MAX./MIN. PERM. LIVE	MAX./MIN. WIND	MAX./MIN. DEAD	MAX./MIN. SOIL
JT		COMBINED						
5		220	181 / 0	0 / 0	0 / 0	0 / 0	39 / 0	0 / 0
3		80	71 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
4		13	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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			
		MAX. FACTORED	FACTORED	VERT. LOAD	LC1 MAX	MAX. UNBRAC	MEMB. FORCE	MAX. FACTORED	CS1 (LC)
		FORCE (LBS)	(PLF)					FORCE (LBS)	
				FROM	TO	LENGTH	FR-TO		
5-2		-301 / 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		-22 / 0	-77.3	-77.3	0.21 (1)	6.25			
5-4		0 / 0	-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

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=0.21 (2-3:1) , BC=0.02 (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)
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= 0.19 (2) (INPUT = 0.90)
JSI METAL= 0.07 (2) (INPUT = 1.00)

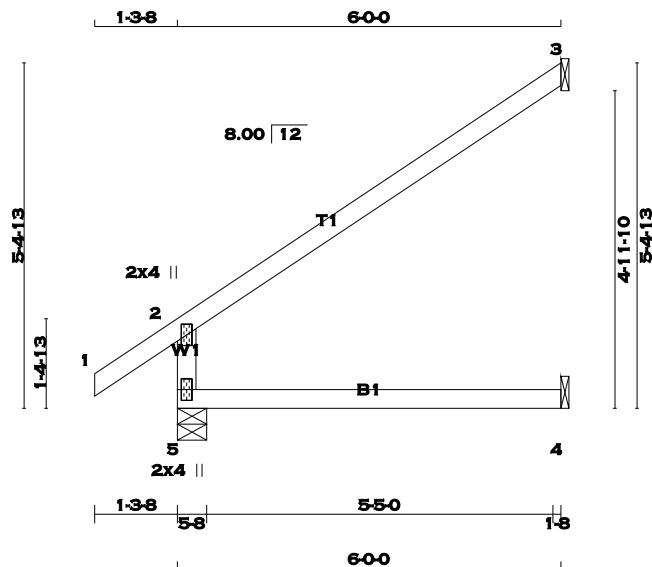


March 23, 2017



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RECEIVED
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JUNIPER 11F
BUILDING DIVISION



TOTAL WEIGHT = 19 X 18 = 345 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									
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG		
	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							
JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	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)				
MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH FR-TO	MAX. FACTORED FORCE (LBS)
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

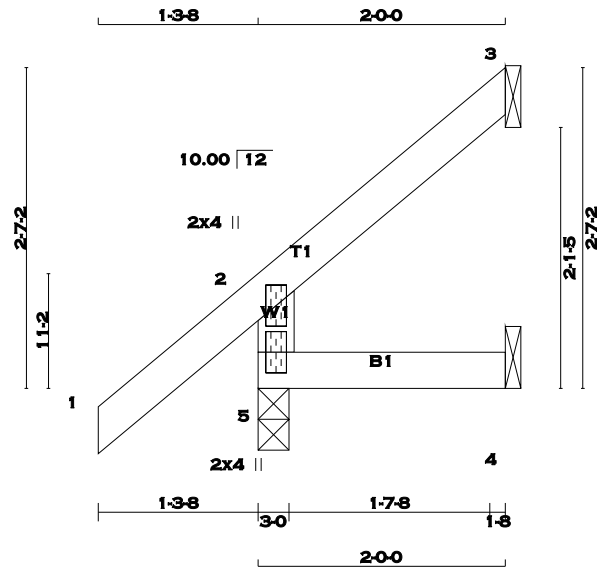
PLATE ROTATION TOL. = 5.0 Deg.

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



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JUNIPER 11F
BUILDING DIVISION



SCALE = 1:18.6

TOTAL WEIGHT = 3 X 8 = 24 lb

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
5	223	0	223	0	0	3-0	3-0	
3	58	0	58	0	0	1-8	1-8	
4	15	0	17	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.			
5	154	123 / 0	0 / 0	0 / 0	0 / 0	32 / 0	0 / 0
3	40	35 / 0	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0
4	12	0 / 0	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRACED LENGTH	MEMB. FORCE (LBS)	MAX. CSI (LC)	MAX. FORCE (LBS)	MAX. CSI (LC)
FR-TO								
5-2	-204 / 0	0.0	0.0 0.01 (3)	7.81				
1-2	0 / 34	-77.3	-77.3 0.11 (1)	10.00				
2-3	-12 / 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

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

CSI: TC=0.11 (1-2:1) , BC=0.02 (4-5:3) , WB=0.00 (n/a:0) , SSI=0.06 (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= 0.15 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)

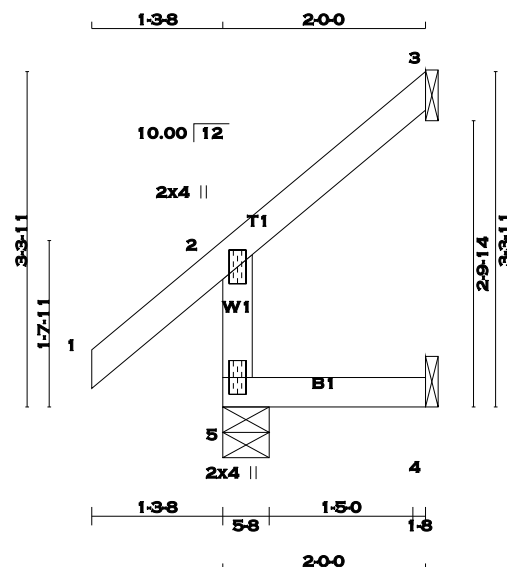


March 23, 2017



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RECEIVED
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JUNIPER 11F
BUILDING DIVISION



SCALE = 1:22.7

TOTAL WEIGHT = 4 X 9 = 35 lb [M]

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	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	

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

UNFACTORED REACTIONS

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

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX. FACTORED	FORCE	VERT. LOAD	LC1 MAX	MAX. UNBRAC	MEMB. FORCE	MAX. FORCE	MAX. CSI (LC)
	(LBS)	(LBS)	(PLF)	CSI (LC)	LENGTH	(LBS)	(LBS)	(LC)
FR-TO			FROM TO		FR-TO			
5-2	-203 / 0	0.0	0.0	0.01 (3)	7.81			
1-2	0 / 34	-77.3	-77.3	0.11 (1)	10.00			
2-3	-12 / 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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

CSI: TC=0.11 (1-2:1) , BC=0.02 (4-5:3) , WB=0.00 (n/a:0) , SSI=0.06 (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)	(PSI)	(PLI)	(PSI)	(PLI)	(PSI)	(PLI)
MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	822	2284	1656	

PLATE PLACEMENT TOL. = 0.250 inches

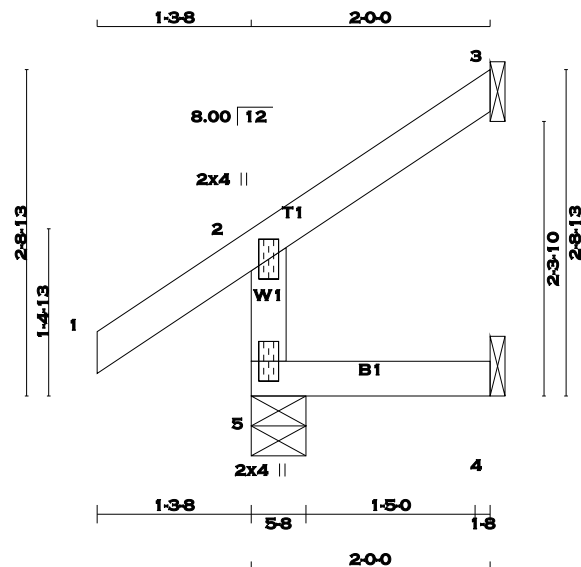
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)



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RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 11F
BUILDING DIVISION



SCALE = 1:19.3

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

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

		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	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	

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		153	122 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0	
3		40	35 / 0	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0	
4		13	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0	

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

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

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

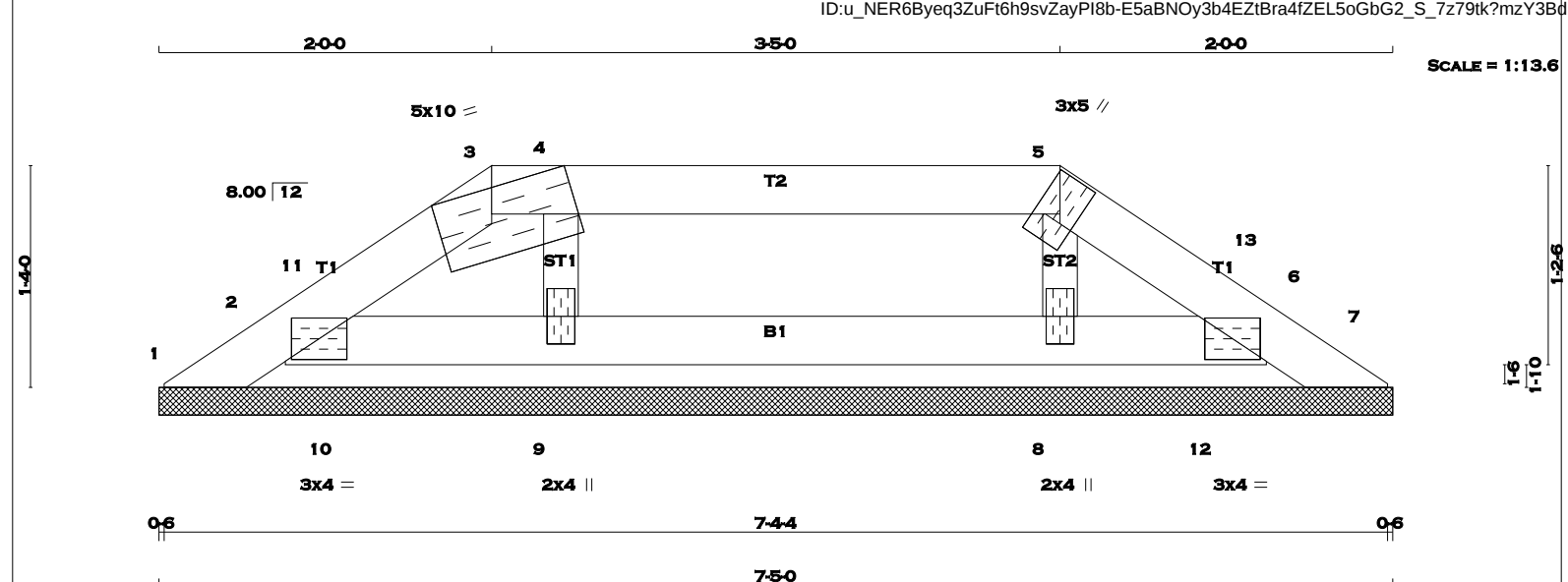


March 23, 2017



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TOTAL WEIGHT = 17 lb [M]

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 - 7 2x4 DRY No.2 SPF
2 - 6 2x4 DRY No.2 SPF

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

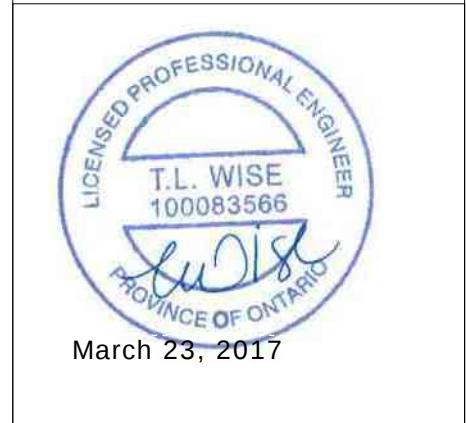
GABLE STUDS SPACED AT 3-0-0 OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMB1-l	MT20	3.0	4.0		
3						
4	TTW-m	MT20	5.0	10.0	Edge	4.00
5	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					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH
FR-TO		FROM TO		FR-TO			FR-TO		
1-2	0 / 2	-94.8	-94.8 0.01 (1)	10.00	8-5	-178 / 0	0.03 (1)		
2-11	0 / 49	-77.3	-77.3 0.03 (1)	10.00	9-4	-262 / 0	0.04 (1)		
11-3	0 / 90	-77.3	-77.3 0.04 (1)	10.00	10-11	0 / 17	0.00 (1)		
3-4	0 / 71	-77.3	-77.3 0.07 (1)	10.00	12-13	-42 / 0	0.00 (1)		
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					

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

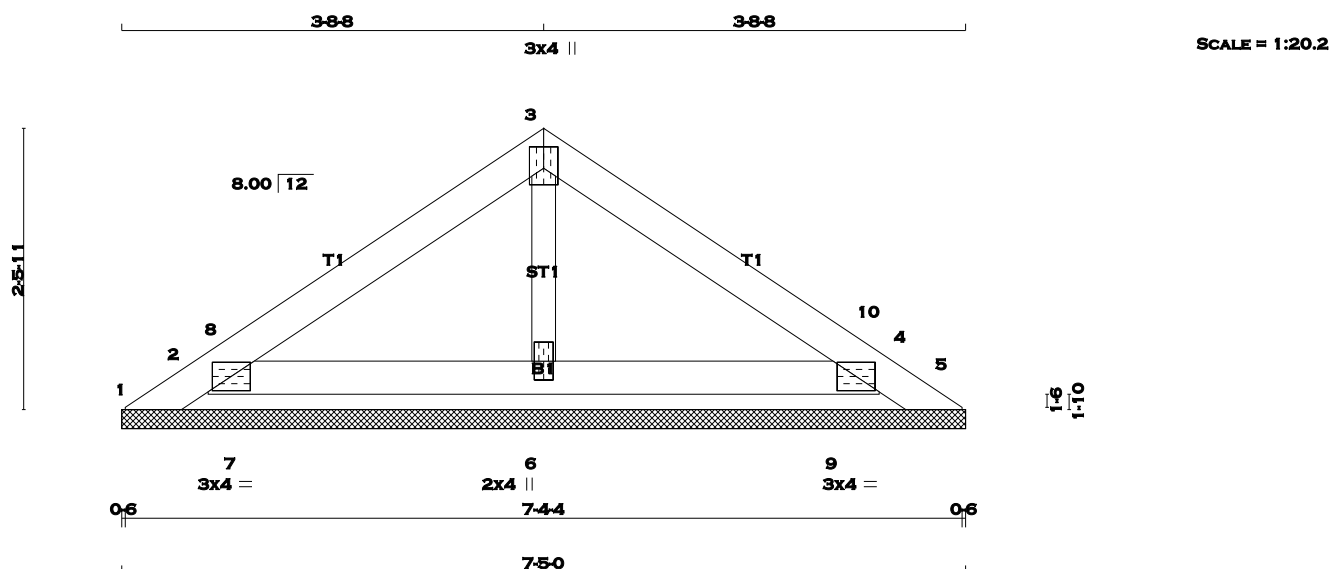
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (5) (INPUT = 0.90)
JSI METAL= 0.05 (9) (INPUT = 1.00)



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TOTAL WEIGHT = $3 \times 18 = 54$ lb

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" OC.				

PLATES (table is in inches)

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

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)

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				
1-2	0 / 40	-94.8	-94.8 0.08 (1)	10.00	6-3	-121 / 0	0.02 (1)		
2-8	-84 / 0	-77.3	-77.3 0.07 (1)	6.25	7-8	-74 / 29	0.00 (1)		
8-3	-57 / 0	-77.3	-77.3 0.07 (1)	6.25	9-10	-74 / 29	0.00 (1)		
3-10	-57 / 0	-77.3	-77.3 0.07 (1)	6.25					
10-4	-84 / 0	-77.3	-77.3 0.07 (1)	6.25					
4-5	0 / 40	-94.8	-94.8 0.08 (1)	10.00					
2-7	0 / 41	-17.5	-17.5 0.04 (1)	10.00					
7-6	0 / 41	-17.5	-17.5 0.05 (1)	10.00					
6-9	0 / 41	-17.5	-17.5 0.05 (1)	10.00					
9-4	0 / 41	-17.5	-17.5 0.04 (1)	10.00					

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012 , 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	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)

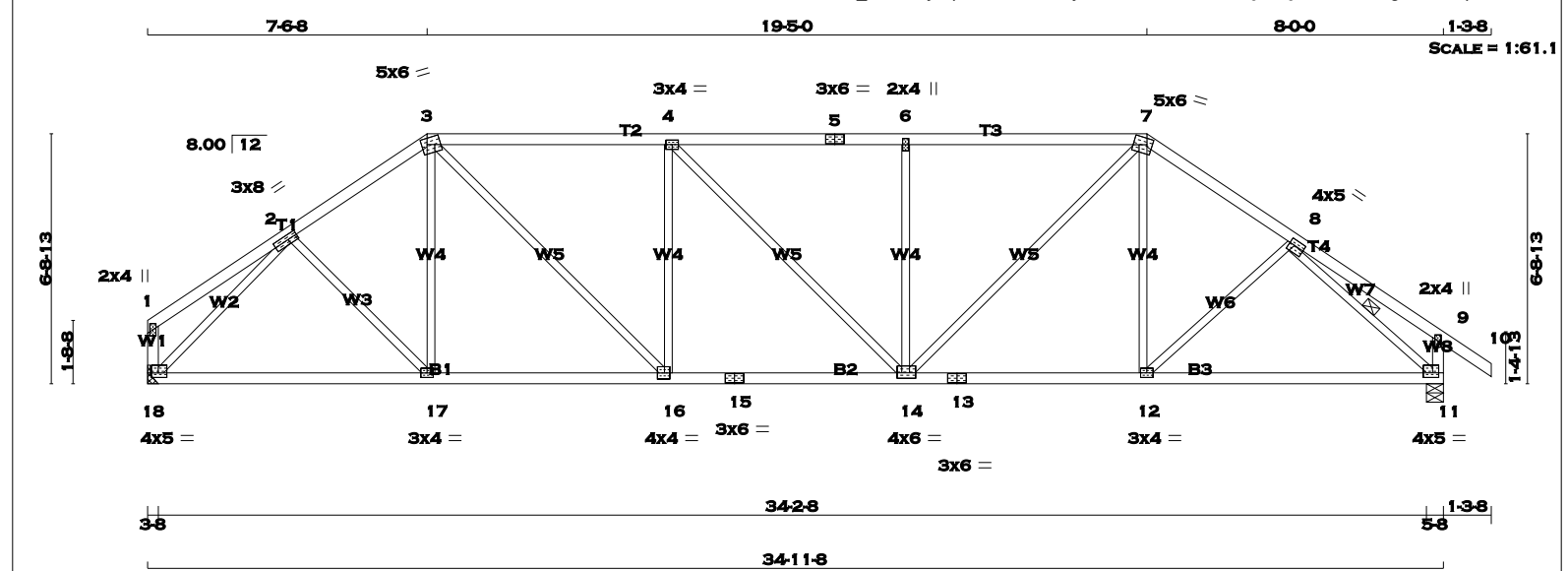


March 23, 2017



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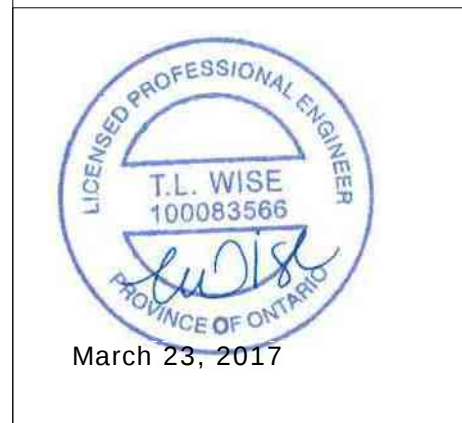


TOTAL WEIGHT = 146 lb [M]

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
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		
11		1764	0	1764	0	0	MIN. SEAT SIZE: 3-8		

UNFACTORED REACTIONS							
		1ST LCASE	MAX./MIN. COMPONENT REACTIONS				
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
18		1164	814 / 0	0 / 0	0 / 0	0 / 0	350 / 0
11		1236	878 / 0	0 / 0	0 / 0	0 / 0	358 / 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)	MAX LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 17	-77.3 -77.3	0.16 (1)	10.00	2-17	0 / 144	0.03 (1)
2-3	-1872 / 0	-77.3 -77.3	0.21 (1)	4.71	17-3	0 / 94	0.03 (3)
3-4	-2218 / 0	-77.3 -77.3	0.62 (1)	3.96	3-16	0 / 952	0.21 (1)
4-5	-2238 / 0	-77.3 -77.3	0.62 (1)	3.94	16-4	-563 / 0	0.43 (1)
5-6	-2238 / 0	-77.3 -77.3	0.62 (1)	3.94	4-14	0 / 28	0.01 (1)
6-7	-2238 / 0	-77.3 -77.3	0.62 (1)	3.95	14-6	-541 / 0	0.41 (1)
7-8	-1952 / 0	-77.3 -77.3	0.25 (1)	4.60	14-7	0 / 886	0.20 (1)
8-9	0 / 18	-77.3 -77.3	0.18 (1)	10.00	12-7	0 / 123	0.04 (3)
9-10	0 / 29	-77.3 -77.3	0.10 (1)	10.00	12-8	0 / 67	0.02 (3)
18-1	-115 / 0	0.0 0.0	0.01 (1)	7.81	18-2	-2070 / 0	0.98 (1)
11-9	-228 / 0	0.0 0.0	0.02 (1)	7.81	8-11	-2161 / 0	0.49 (1)
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			

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 (1.17")
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)		
	MAX	MIN	MAX	MIN	MAX
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

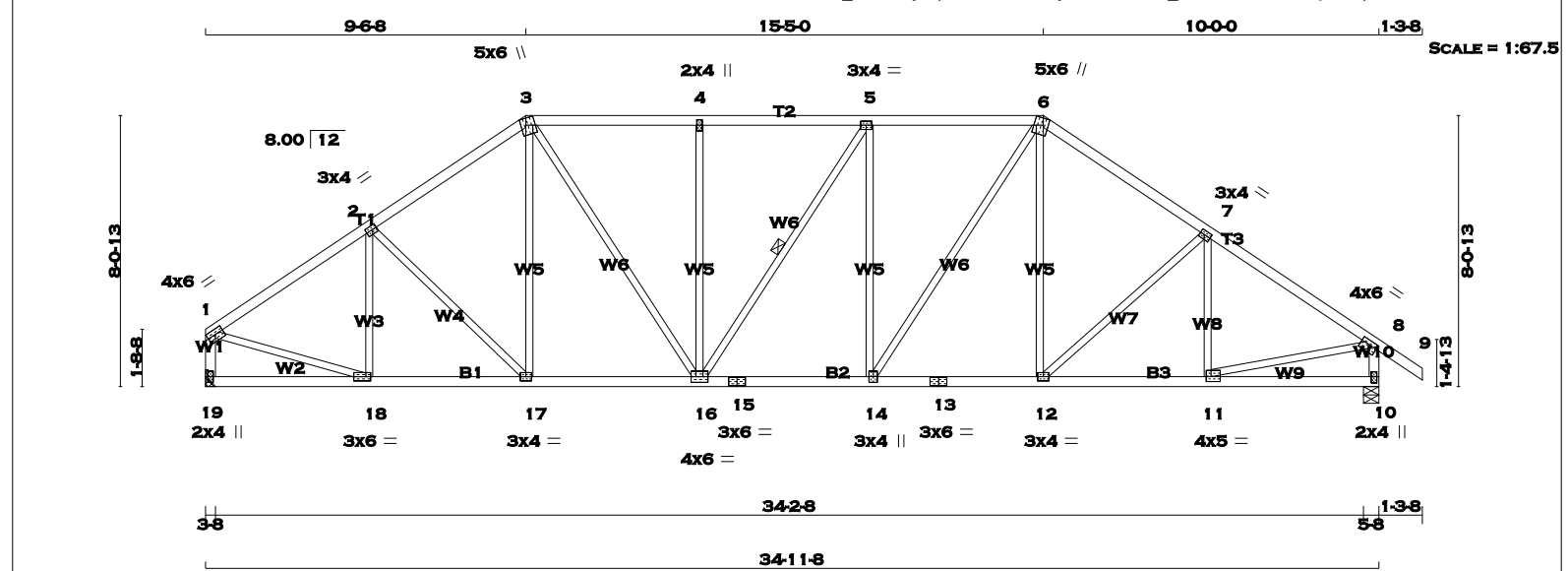
PLATE ROTATION TOL. = 5.0 Deg.

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

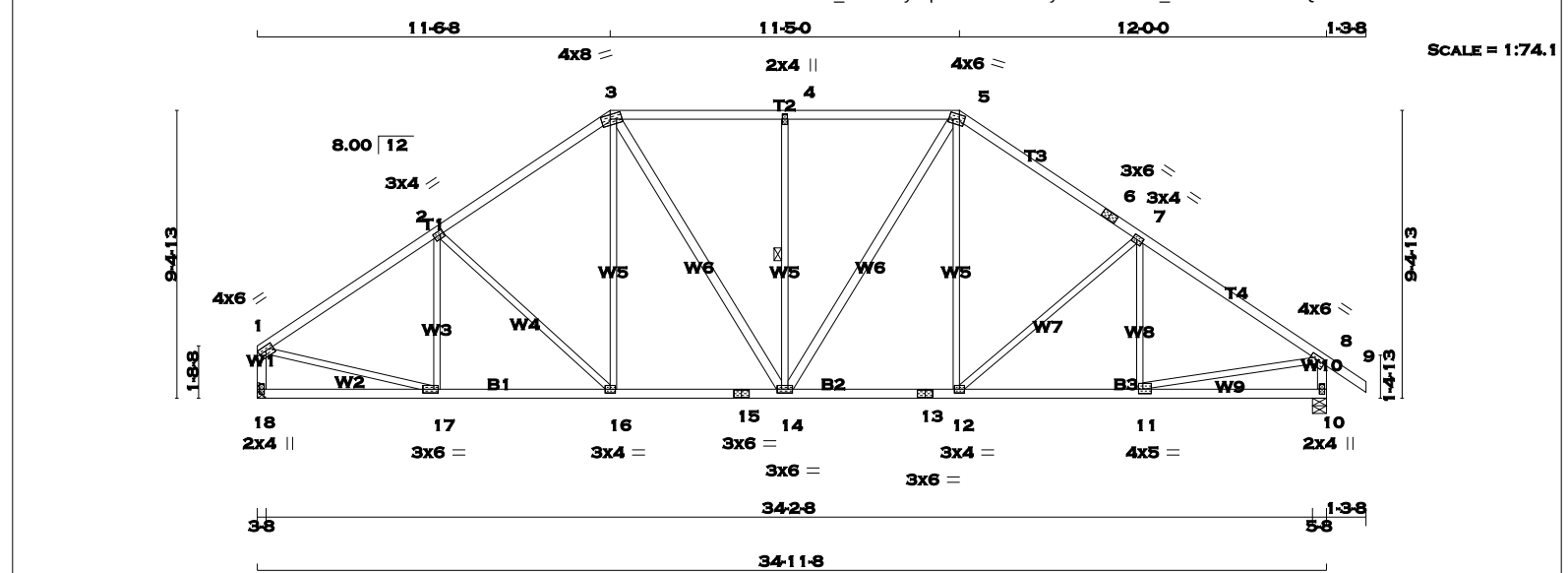


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LUMBER							DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA									
N. L. G. A. RULES																										
CHORDS SIZE																										
LUMBER							DESCR.																			
1 - 3 2x4 DRY No.2							SPF										SPECIFIED LOADS:									
3 - 6 2x4 DRY No.2							SPF										TOP CH. LL = 23.3 PSF									
6 - 9 2x4 DRY No.2							SPF										DL = 3.0 PSF									
19 - 1 2x4 DRY No.2							SPF										BOT CH. LL = 0.0 PSF									
10 - 8 2x4 DRY No.2							SPF										DL = 7.0 PSF									
19 - 15 2x4 DRY No.2							SPF										TOTAL LOAD = 33.3 PSF									
15 - 13 2x4 DRY No.2							SPF																			
13 - 10 2x4 DRY No.2							SPF																			
ALL WEBS 2x3 DRY No.2							SPF										SPACING = 24.0 IN./C									
EXCEPT																	LOADING IN FLAT SECTION BASED ON A SLOPE OF 8.00/12									
DRY: SEASONED LUMBER.																	THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010									
PLATES (table is in inches)																	THIS DESIGN COMPLIES WITH:									
JT TYPE PLATES W LEN Y X																	- PART 9 OF OBC 2012, BCBC 2012, ABC 2014									
1 TMVW-t MT20 4.0 6.0 1.75 Edge																	- CSA 086-09									
2 TMVW-t MT20 3.0 4.0 1.50 1.50																	- TPIC 2011									
3 TTWW+m MT20 5.0 6.0 Edge 1.75																	(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									
4 TMVW-w MT20 2.0 4.0																	ALLOWABLE DEFL.(LL)= L/360 (1.17")									
5 TMVW-t MT20 3.0 4.0																	CALCULATED VERT. DEFL.(LL)= L/ 999 (0.09")									
6 TTWW+m MT20 5.0 6.0 Edge 1.75																	ALLOWABLE DEFL.(TL)= L/360 (1.17")									
7 TMVW-t MT20 3.0 4.0 1.50 1.50																	CALCULATED VERT. DEFL.(TL)= L/ 999 (0.17")									
8 TMVW-t MT20 4.0 6.0 1.50 3.00																	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)									
10 BMV1+p MT20 2.0 4.0 2.25 1.00																	DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10									
11 BMVW-t MT20 4.0 5.0 1.75 1.75																	COMP=1.10 SHEAR=1.10 TENS= 1.10									
12 BMVW-t MT20 3.0 4.0																	COMPANION LIVE LOAD FACTOR = 0.50									
13 BS-t MT20 3.0 6.0																	TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .									
14 BMVW+t MT20 3.0 4.0																	NAIL VALUES									
15 BS-t MT20 3.0 6.0																	PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)									
16 BMVW-t MT20 4.0 6.0																	MAX MIN MAX MIN MAX MIN									
17 BMVW-t MT20 3.0 4.0																	MT20 618 354 1667 822 2284 1656									
18 BMVW-t MT20 3.0 6.0 1.50 1.75																	PLATE PLACEMENT TOL. = 0.250 inches									
19 BMV1+p MT20 2.0 4.0																	PLATE ROTATION TOL. = 5.0 Deg.									
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.																	JSI GRIP= 0.90 (18) (INPUT = 0.90)									
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.																	JSI METAL= 0.54 (8) (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 MAR 29, 2017 JUNIPER 11F BUILDING DIVISION									



TOTAL WEIGHT = 165 lb
[M][F]

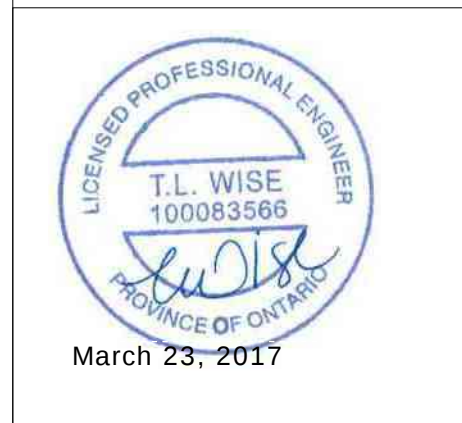
LUMBER			N. L. G. A. RULES		
CHORDS	SIZE		LUMBER	DESCR.	
1 - 3	2x4	DRY	No.2	SPF	
3 - 5	2x4	DRY	No.2	SPF	
5 - 6	2x4	DRY	No.2	SPF	
6 - 9	2x4	DRY	No.2	SPF	
18 - 1	2x4	DRY	No.2	SPF	
10 - 8	2x4	DRY	No.2	SPF	
18 - 15	2x4	DRY	No.2	SPF	
15 - 13	2x4	DRY	No.2	SPF	
13 - 10	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	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	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	TMVW-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	BMVW-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	BMVW-t	MT20	3.0	6.0	
15	BS-t	MT20	3.0	6.0	
16	BMVW-t	MT20	3.0	4.0	
17	BMVW-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			MAXIMUM FACTORED			INPUT			REQRD		
JT	COMBINED	SNOW	GROSS REACTION	DOWN	HORZ	GROSS REACTION	DOWN	HORZ	BRG	IN-SX	IN-SX	BRG	IN-SX	IN-SX
18	1658	0	1658	0	0	1658	0	0	5-8	5-8	5-8	5-8	5-8	5-8
10	1764	0	1764	0	0	1764	0	0	5-8	5-8	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT	REACTIONS			
18	1164	814 / 0	0 / 0	PERM.LIVE	WIND	DEAD	SOIL
10	1236	878 / 0	0 / 0	0 / 0	0 / 0	350 / 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/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	MAX MIN		
MT20	618	354	1667	822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

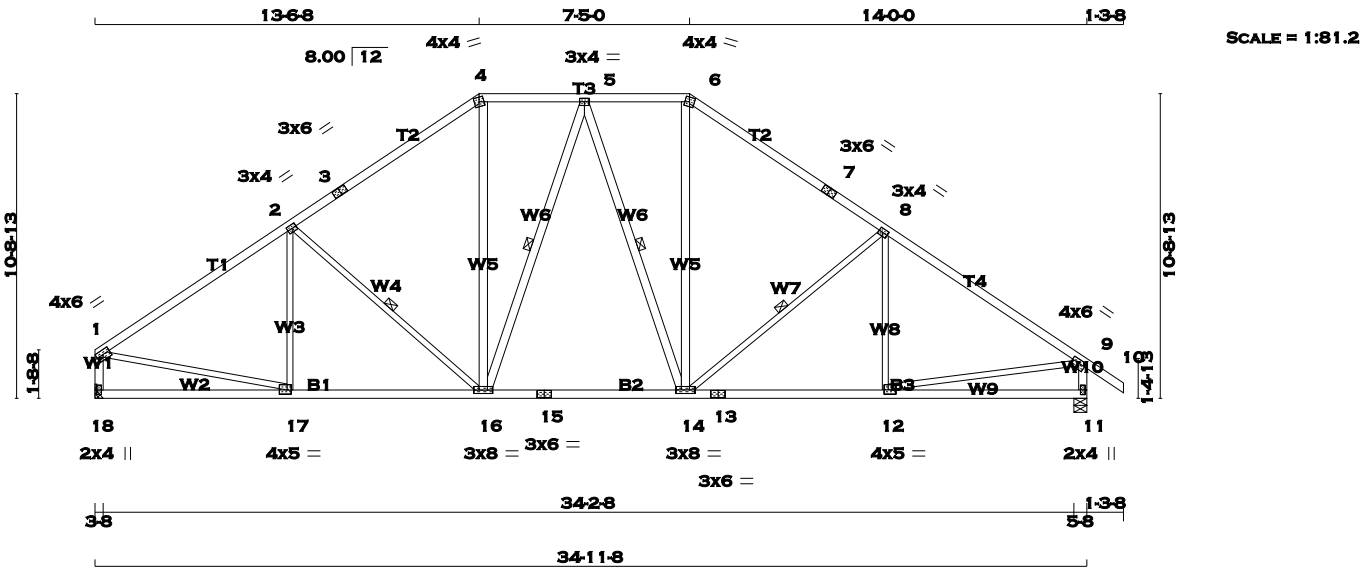
PLATE ROTATION TOL. = 5.0 Deg.

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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MAR 29, 2017
JUNIPER 11F
BUILDING DIVISION



LUMBER			N. L. G. A. RULES		
CHORDS	SIZE	LUMBER	DESCR.	SPF	
1 - 3	2x4	DRY	No.2	SPF	
3 - 4	2x4	DRY	No.2	SPF	
4 - 6	2x4	DRY	No.2	SPF	
6 - 7	2x4	DRY	No.2	SPF	
7 - 10	2x4	DRY	No.2	SPF	
18 - 1	2x4	DRY	No.2	SPF	
11 - 9	2x4	DRY	No.2	SPF	
18 - 15	2x4	DRY	No.2	SPF	
15 - 13	2x4	DRY	No.2	SPF	
13 - 11	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	
16 - 4	2x4	DRY	No.2	SPF	
16 - 5	2x4	DRY	No.2	SPF	
5 - 14	2x4	DRY	No.2	SPF	
14 - 6	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

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

FACTORED GROSS REACTION			MAXIMUM FACTORED GROSS REACTION			INPUT		REQRD	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG	IN-SX	BRG	IN-SX
18	1658	0	1658	0	0	HANGER BY OTHERS			
11	1764	0	1764	0	0	MIN. SEAT SIZE: 3-8	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 = 4.08 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 2-16, 5-16, 5-14, 8-14. DBS = 20-0-0 . CBF = 60 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. FACTORED UNBRAC LENGTH (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO	
1-2	-1910 / 0	-77.3 -77.3	0.60 (1)	4.25 17-2	-195 / 54
2-3	-1625 / 0	-77.3 -77.3	0.54 (1)	4.58 2-16	-396 / 0
3-4	-1625 / 0	-77.3 -77.3	0.54 (1)	4.58 16-4	0 / 574
4-5	-1329 / 0	-77.3 -77.3	0.14 (1)	5.48 16-5	-203 / 0
5-6	-1344 / 0	-77.3 -77.3	0.14 (1)	5.46 5-14	-156 / 0
6-7	-1644 / 0	-77.3 -77.3	0.59 (1)	4.49 14-6	0 / 577
7-8	-1644 / 0	-77.3 -77.3	0.59 (1)	4.49 14-8	-480 / 0
8-9	-2015 / 0	-77.3 -77.3	0.66 (1)	4.08 12-8	-124 / 79
9-10	0 / 29	-77.3 -77.3	0.10 (1)	10.00 1-17	0 / 1651
18-1	-1608 / 0	0.0 0.0	0.17 (1)	6.52 12-9	0 / 1726
11-9	-1713 / 0	0.0 0.0	0.18 (1)	6.36	
18-17	0 / 0	-17.5 -17.5	0.19 (3)	10.00	
17-16	0 / 1619	-17.5 -17.5	0.36 (1)	10.00	
16-15	0 / 1394	-17.5 -17.5	0.32 (1)	10.00	
15-14	0 / 1394	-17.5 -17.5	0.32 (1)	10.00	
14-13	0 / 1706	-17.5 -17.5	0.38 (1)	10.00	
13-12	0 / 1706	-17.5 -17.5	0.38 (1)	10.00	
12-11	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

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 (0.17")

CSI: TC=0.66 (8-9:1) , BC=0.38 (12-14:1) , WB=0.39 (9-12:1) , SSI=0.22 (8-9:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES					
PLATE	GRIP(DRY)	SHEAR	SECTION	(PSI)	(PLI)
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= 0.56 (9) (INPUT = 1.00)

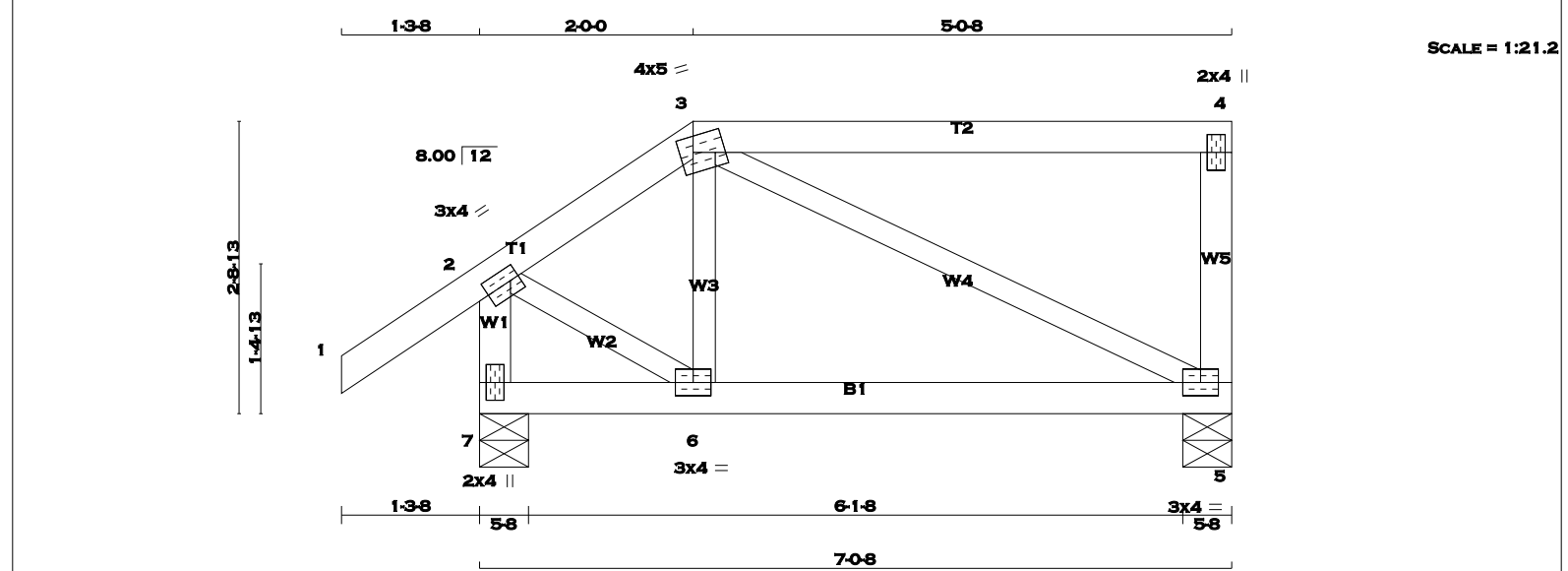


March 23, 2017

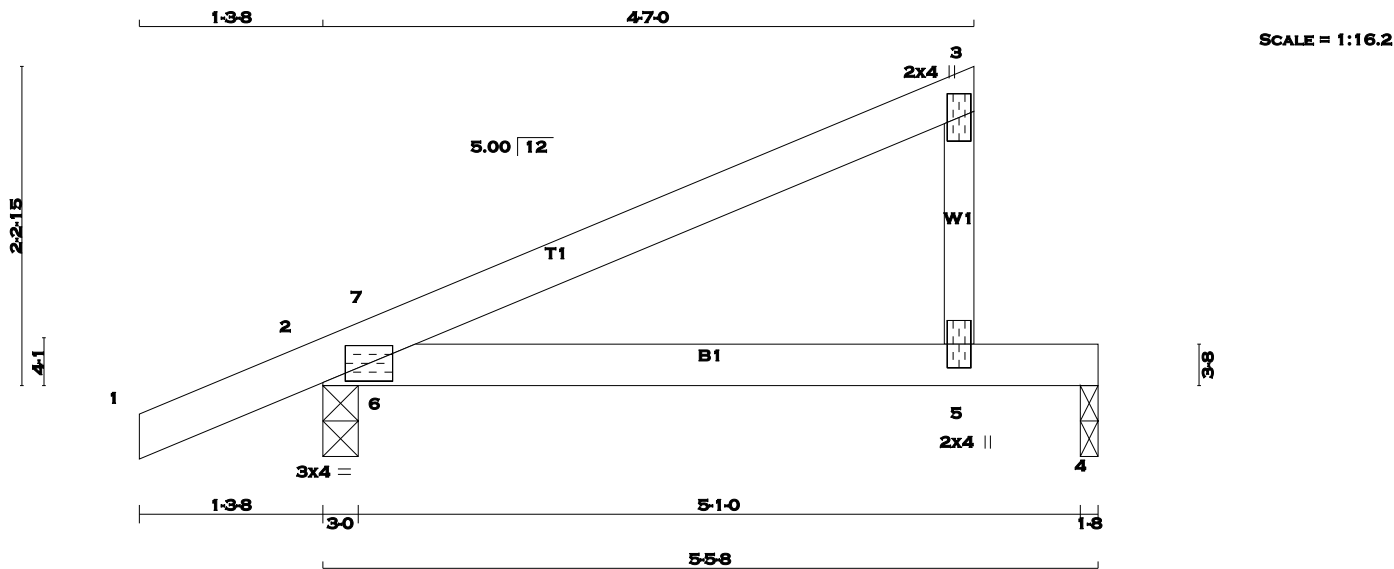


READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

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LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										TOTAL WEIGHT = 29 lb [M]
					BEARINGS										DESIGN CRITERIA
					FACTORED		MAXIMUM FACTORED		INPUT		REQRD		SPECIFIED LOADS:		
					GROSS REACTION		GROSS REACTION		BRG		BRG		TOP CH. LL = 23.3 PSF		
1 - 3 2x4 DRY No.2 SPF					JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	DL = 3.0 PSF		
3 - 4 2x4 DRY No.2 SPF					5	334	0	334	0	0	5-8	5-8	BOT CH. LL = 0.0 PSF		
5 - 4 2x4 DRY No.2 SPF					7	440	0	440	0	0	5-8	5-8	DL = 7.0 PSF		
7 - 2 2x4 DRY No.2 SPF													TOTAL LOAD = 33.3 PSF		
7 - 5 2x4 DRY No.2 SPF													SPACING = 24.0 IN. C/C		
ALL WEBS 2x3 DRY No.2 SPF					UNFACTORED REACTIONS								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		
													(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		
PLATES (table is in inches)													ALLOWABLE DEFL.(LL)= L/360 (0.23")		
JT	TYPE	PLATES	W	LEN	Y	X							CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")		
2	TMVW-t	MT20	3.0	4.0	1.50	1.00							ALLOWABLE DEFL.(TL)= L/360 (0.23")		
3	TTWW-m	MT20	4.0	5.0	1.75	1.50							CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")		
4	TMV+p	MT20	2.0	4.0									CSI: TC=0.33 (3-4:1) , BC=0.11 (5-6:3) , WB=0.11 (3-5:1) , SSI=0.15 (3-4:1)		
5	BMVW1-t	MT20	3.0	4.0									DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10		
6	BMWW-t	MT20	3.0	4.0									COMPANION LIVE LOAD FACTOR = 0.50		
7	BMV1+p	MT20	2.0	4.0									TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .		
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.													NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION 		



TOTAL WEIGHT = 8 X 15 = 120 lb [M]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMB1-I	MT20	3.0	4.0		
3	TMV+p	MT20	2.0	4.0		
5	BMV+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

JT		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
2		358	0	358	0	0	3-0	3-0	
4		197	0	197	0	0	1-8	1-8	

JT		1ST LCASE		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
		COMBINED	SNOW	LIVE	PERM.LIVE			
2		249	187 / 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) 2, 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.

FR-TO		CHORDS		WEBS		MEMB.	FORCE (LBS)	MAX. UNBRACED LENGTH	FACTORED FORCE (LBS)	MAX. CSI (LC)
		MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LC)	MAX. UNBRACED LENGTH					
1-2		0 / 19	-77.3	-77.3 0.10 (1)	10.00	6-7	-110 / 65	0.00 (1)		
2-7		-33 / 0	-77.3	-77.3 0.08 (3)	6.25					
7-3		0 / 3	-77.3	-77.3 0.24 (1)	10.00					
5-3		-166 / 0	0.0	0.0 0.03 (1)	7.81					
2-6		0 / 0	-17.5	-17.5 0.11 (1)	10.00					
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/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 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 579 (0.11")

CSI: TC=0.24 (3-7:1) , BC=0.23 (5-6:1) , WB=0.00 (6-7:1) , 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

AUTOSOLVE LEFT HEEL ONLY

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
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= 0.20 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)

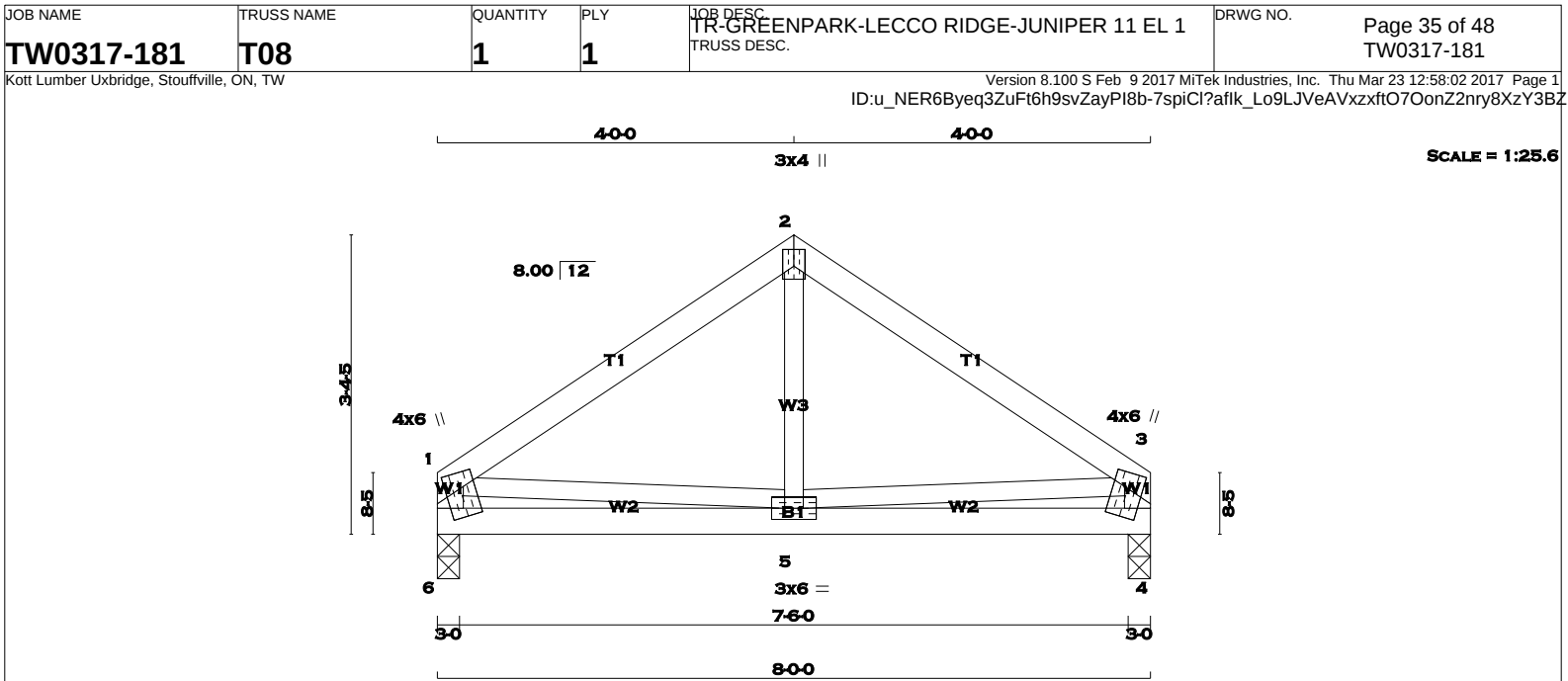


March 23, 2017



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.

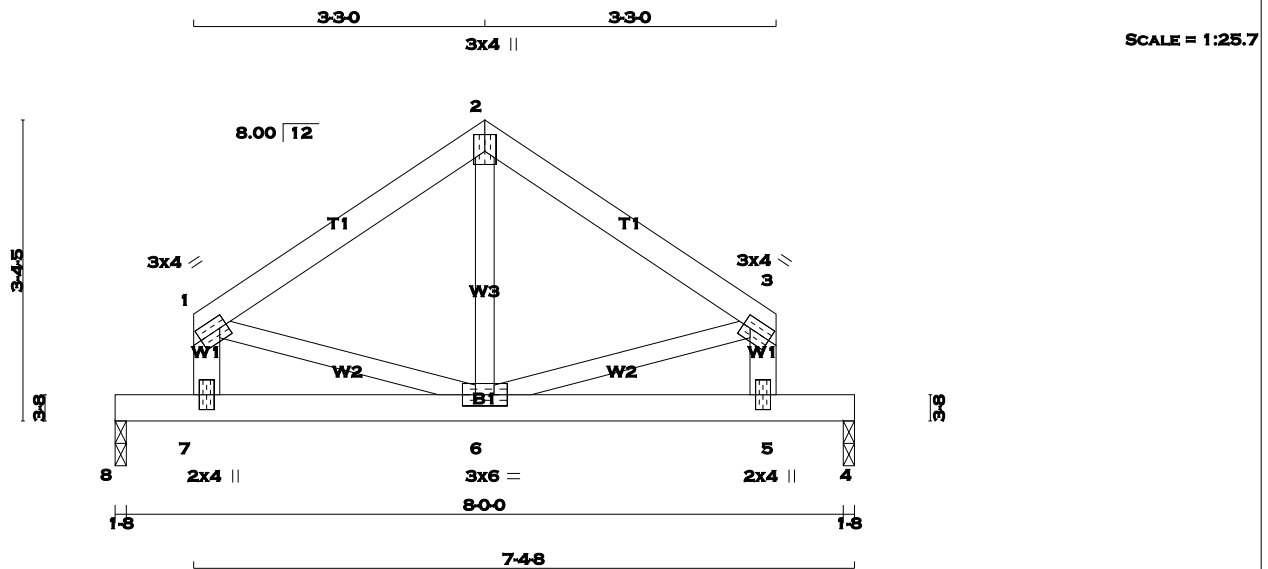
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MAR 29, 2017
JUNIPER 11F
BUILDING DIVISION



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS										DESIGN CRITERIA									
1 - 2 2x4 DRY No.2 SPF					FACTORED MAXIMUM FACTORED INPUT REQD										SPECIFIED LOADS:									
2 - 3 2x4 DRY No.2 SPF					GROSS REACTION GROSS REACTION BRG BRG										TOP CH. LL = 23.3 PSF									
6 - 1 2x4 DRY No.2 SPF					JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX										TOP CH. LL = 3.0 PSF									
4 - 3 2x4 DRY No.2 SPF					6 379 0 379 0 0 3-0 3-0										BOT CH. LL = 0.0 PSF									
6 - 4 2x4 DRY No.2 SPF					4 379 0 379 0 0 3-0 3-0										DL = 7.0 PSF									
ALL WEBS 2x3 DRY No.2 SPF					UNFACTORED REACTIONS										TOTAL LOAD = 33.3 PSF									
EXCEPT					1ST LCASE MAX./MIN. COMPONENT REACTIONS										SPACING = 24.0 IN. C/C									
DRY: SEASONED LUMBER.					JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL										THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010									
					6 266 186 / 0 0 / 0 0 / 0 0 / 0 80 / 0 0 / 0										- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014									
					4 266 186 / 0 0 / 0 0 / 0 0 / 0 80 / 0 0 / 0										- CSA 086-09									
					BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6, 4										- TPIC 2011									
					BRACING										THIS DESIGN COMPLIES WITH:									
					TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.										- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014									
					MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.										- CSA 086-09									
					ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.										- TPIC 2011									
					LOADING										(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									
					TOTAL LOAD CASES: (3)										ALLOWABLE DEFL.(LL)= L/360 (0.27")									
					CHORDS WEBS										CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")									
					MEMB. MAX. FACTORED FACTORED VERT. LOAD LC1 MAX MAX. MEMB. MAX. FACTORED										ALLOWABLE DEFL.(TL)= L/360 (0.27")									
					FORCE (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) MAX CSI (LC)										CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")									
					FR-TO FROM TO										CSI: TC=0.16 (2-3:1) , BC=0.08 (4-5:3) , WB=0.06 (1-5:1) , SSI=0.10 (2-3:1)									
					1- 2 -312 / 0 -77.3 -77.3 0.16 (1) 6.25 5- 2 0 / 81 0.03 (3)										DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10									
					2- 3 -312 / 0 -77.3 -77.3 0.16 (1) 6.25 1- 5 0 / 261 0.06 (1)										COMP=1.10 SHEAR=1.10 TENS= 1.10									
					6- 1 -352 / 0 0.0 0.0 0.04 (1) 7.81 5- 3 0 / 261 0.06 (1)										COMPANION LIVE LOAD FACTOR = 0.50									
					4- 3 -352 / 0 0.0 0.0 0.04 (1) 7.81										TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .									
					6- 5 0 / 0 -17.5 -17.5 0.08 (3) 10.00										NAIL VALUES									
					5- 4 0 / 0 -17.5 -17.5 0.08 (3) 10.00										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= 0.49 (5) (INPUT = 0.90)									
															JSI METAL= 0.16 (3) (INPUT = 1.00)									

Kott Lumber Uxbridge, Stouffville, ON, TW

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Thu Mar 23 12:58:02 2017 Page 1
ID:u_NER6Byeq3ZuFt6h9svZayPi8b-7spiCl?afIk_Lo9LJVeAVxzu3tJqOo8Z2nry8XzY3BZ



TOTAL WEIGHT = 27 lb [M]

LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
1 - 2	2x4	DRY	No.2	SPF
2 - 3	2x4	DRY	No.2	SPF
7 - 1	2x4	DRY	No.2	SPF
5 - 3	2x4	DRY	No.2	SPF
8 - 4	2x4	DRY	No.2	SPF
ALL WEBS 2x3 DRY No.2 EXCEPT				SPF
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	TTW+p	MT20	3.0	4.0	2.25	1.50
3	TMVW-t	MT20	3.0	4.0	1.50	1.00
5	BMV+p	MT20	2.0	4.0		
6	BMVWW-t	MT20	3.0	6.0		
7	BMV+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	VERT	GROSS	REACTION	GROSS	REACTION	BRG	DOWN	BRG	UP
8	391	0		391	0	0	1-8	1-8	
4	391	0		391	0	0	1-8	1-8	

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN.	COMPONENT	REACTIONS
JT	COMBINED	SNOW	LIVE	PERM.LIVE
8	275	192 / 0	0 / 0	0 / 0
4	275	192 / 0	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 4

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLINE 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)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)
FR-TO		FROM TO		FR-TO		FROM TO	
1-2	-367 / 0	-77.3 -77.3	0.10 (1)	6-2	0 / 156	0.04 (1)	
2-3	-367 / 0	-77.3 -77.3	0.10 (1)	1-6	-50 / 0	0.01 (1)	
7-1	-317 / 0	0.0 0.0	0.33 (1)	6-3	-50 / 0	0.01 (1)	
5-3	-317 / 0	0.0 0.0	0.33 (1)				
8-7	0 / 0	-94.8 -94.8	0.42 (1)				
7-6	0 / 353	-17.5 -17.5	0.15 (1)				
6-5	0 / 353	-17.5 -17.5	0.15 (1)				
5-4	0 / 0	-94.8 -94.8	0.42 (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

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 (0.28")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.28")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.33 (3-5:1), BC=0.42 (7-8:1), WB=0.04 (2-6:1), SSI=0.31 (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= 0.78 (1) (INPUT = 0.90)
JSI METAL= 0.23 (5) (INPUT = 1.00)

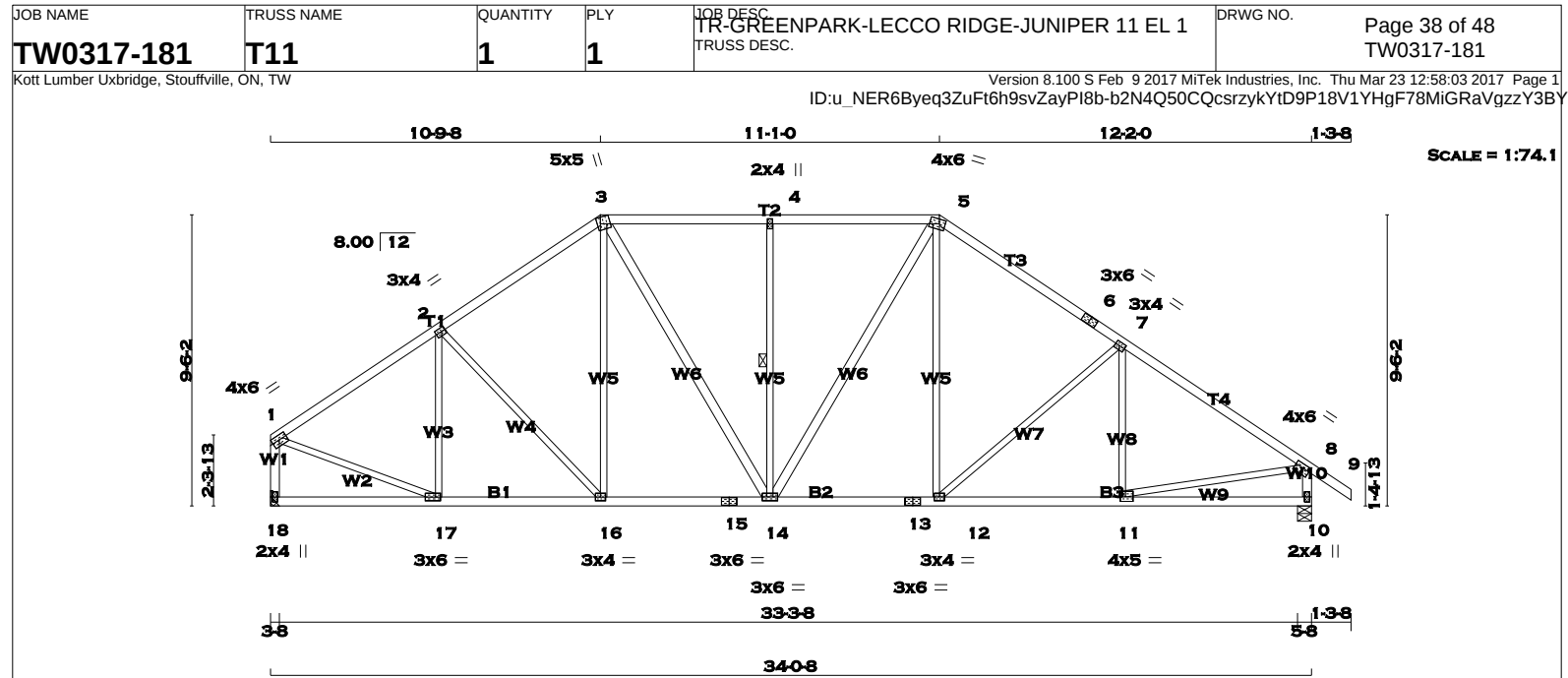


March 23, 2017



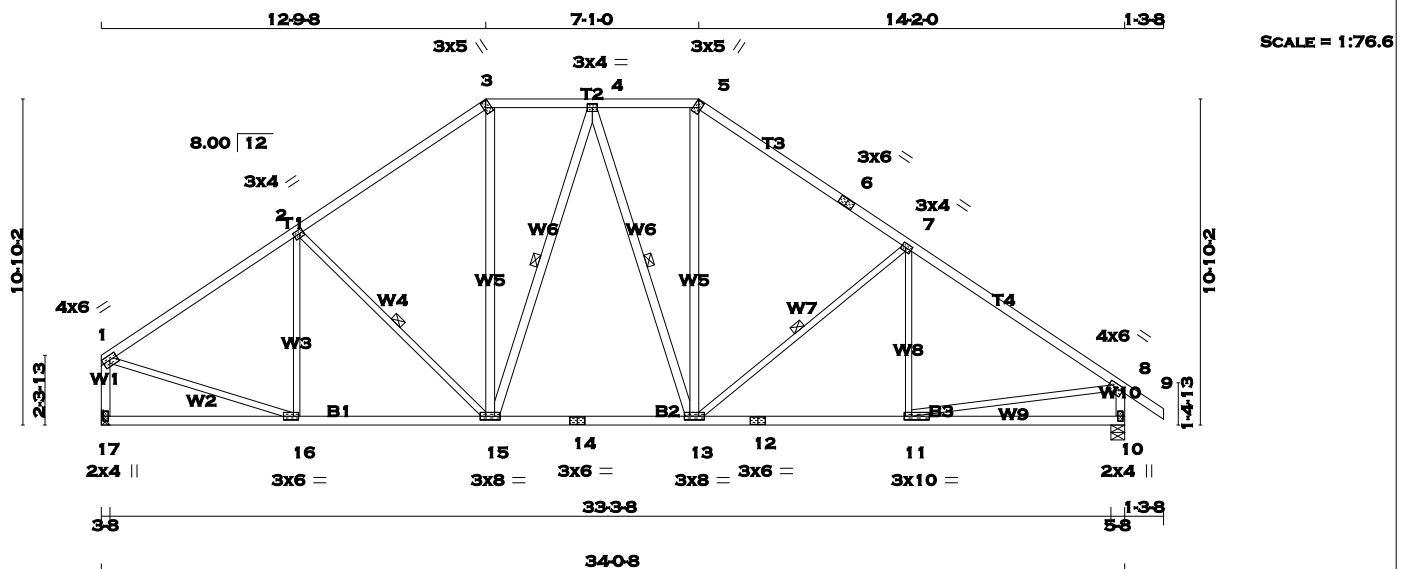
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 11F
BUILDING DIVISION



LUMBER N. L. G. A. RULES <table><tr><th>CHORDS</th><th>SIZE</th><th>LUMBER</th><th>DESCR.</th><th>SPF</th></tr><tr><td>1 - 3</td><td>2x4</td><td>DRY</td><td>No.2</td><td>SPF</td></tr><tr><td>3 - 5</td><td>2x4</td><td>DRY</td><td>No.2</td><td>SPF</td></tr><tr><td>5 - 6</td><td>2x4</td><td>DRY</td><td>No.2</td><td>SPF</td></tr><tr><td>6 - 9</td><td>2x4</td><td>DRY</td><td>No.2</td><td>SPF</td></tr><tr><td>18 - 1</td><td>2x4</td><td>DRY</td><td>No.2</td><td>SPF</td></tr><tr><td>10 - 8</td><td>2x4</td><td>DRY</td><td>No.2</td><td>SPF</td></tr><tr><td>18 - 15</td><td>2x4</td><td>DRY</td><td>No.2</td><td>SPF</td></tr><tr><td>15 - 13</td><td>2x4</td><td>DRY</td><td>No.2</td><td>SPF</td></tr><tr><td>13 - 10</td><td>2x4</td><td>DRY</td><td>No.2</td><td>SPF</td></tr><tr><td colspan="5"> </td></tr><tr><td>ALL WEBS EXCEPT</td><td>2x3</td><td>DRY</td><td>No.2</td><td>SPF</td></tr><tr><td>3 - 14</td><td>2x4</td><td>DRY</td><td>No.2</td><td>SPF</td></tr><tr><td>14 - 5</td><td>2x4</td><td>DRY</td><td>No.2</td><td>SPF</td></tr></table> DRY: SEASONED LUMBER.										CHORDS	SIZE	LUMBER	DESCR.	SPF	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	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></tr><tr><td>18</td><td>1614</td><td>0</td><td>1614</td><td>0</td></tr><tr><td>10</td><td>1721</td><td>0</td><td>1721</td><td>0</td></tr></table> UNFACTORED REACTIONS <table><tr><th>JT</th><th>1ST LCASE</th><th>MAX./MIN.</th><th>COMPONENT REACTIONS</th><th></th></tr><tr><th></th><th>COMBINED</th><th>SNOW</th><th>LIVE</th><th>PERM.LIVE</th></tr><tr><td>18</td><td>1133</td><td>793 / 0</td><td>0 / 0</td><td>0 / 0</td></tr><tr><td>10</td><td>1205</td><td>856 / 0</td><td>0 / 0</td><td>0 / 0</td></tr></table> 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) <table><tr><th colspan="4">C H O R D S</th><th colspan="4">W E B S</th></tr><tr><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>FACTORED VERT. LOAD (PLF)</th><th>MAX LC1 (LC)</th><th>MAX. UNBRAC LENGTH</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>MAX LC1 (LC)</th></tr><tr><td>FR-TO</td><td></td><td>FROM TO</td><td></td><td></td><td>FR-TO</td><td></td><td></td></tr><tr><td>1-2</td><td>-1619 / 0</td><td>-77.3 -77.3</td><td>0.34 (1)</td><td>4.86</td><td>17-2</td><td>-393 / 0</td><td>0.22 (1)</td></tr><tr><td>2-3</td><td>-1587 / 0</td><td>-77.3 -77.3</td><td>0.33 (1)</td><td>4.91</td><td>2-16</td><td>-108 / 0</td><td>0.14 (1)</td></tr><tr><td>3-4</td><td>-1523 / 0</td><td>-77.3 -77.3</td><td>0.34 (1)</td><td>4.97</td><td>16-3</td><td>0 / 172</td><td>0.04 (3)</td></tr><tr><td>4-5</td><td>-1523 / 0</td><td>-77.3 -77.3</td><td>0.34 (1)</td><td>4.97</td><td>3-14</td><td>0 / 437</td><td>0.07 (1)</td></tr><tr><td>5-6</td><td>-1684 / 0</td><td>-77.3 -77.3</td><td>0.43 (1)</td><td>4.68</td><td>14-4</td><td>-524 / 0</td><td>0.31 (1)</td></tr><tr><td>6-7</td><td>-1684 / 0</td><td>-77.3 -77.3</td><td>0.43 (1)</td><td>4.68</td><td>14-5</td><td>0 / 284</td><td>0.05 (1)</td></tr><tr><td>7-8</td><td>-1949 / 0</td><td>-77.3 -77.3</td><td>0.47 (1)</td><td>4.38</td><td>12-5</td><td>0 / 335</td><td>0.08 (1)</td></tr><tr><td>8-9</td><td>0 / 29</td><td>-77.3 -77.3</td><td>0.10 (1)</td><td>10.00</td><td>12-7</td><td>-362 / 0</td><td>0.48 (1)</td></tr><tr><td>18-1</td><td>-1574 / 0</td><td>0.0 0.0</td><td>0.20 (1)</td><td>6.58</td><td>11-7</td><td>-169 / 52</td><td>0.08 (1)</td></tr><tr><td>10-8</td><td>-1675 / 0</td><td>0.0 0.0</td><td>0.17 (1)</td><td>6.41</td><td>1-17</td><td>0 / 1458</td><td>0.33 (1)</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>11-8</td><td>0 / 1672</td><td>0.38 (1)</td></tr><tr><td>18-17</td><td>0 / 0</td><td>-17.5 -17.5</td><td>0.12 (3)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>17-16</td><td>0 / 1370</td><td>-17.5 -17.5</td><td>0.28 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>16-15</td><td>0 / 1297</td><td>-17.5 -17.5</td><td>0.26 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>15-14</td><td>0 / 1297</td><td>-17.5 -17.5</td><td>0.26 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>14-13</td><td>0 / 1376</td><td>-17.5 -17.5</td><td>0.28 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>13-12</td><td>0 / 1376</td><td>-17.5 -17.5</td><td>0.28 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>12-11</td><td>0 / 1647</td><td>-17.5 -17.5</td><td>0.34 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>11-10</td><td>0 / 0</td><td>-17.5 -17.5</td><td>0.16 (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	18	1614	0	1614	0	10	1721	0	1721	0	JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS			COMBINED	SNOW	LIVE	PERM.LIVE	18	1133	793 / 0	0 / 0	0 / 0	10	1205	856 / 0	0 / 0	0 / 0	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	-1619 / 0	-77.3 -77.3	0.34 (1)	4.86	17-2	-393 / 0	0.22 (1)	2-3	-1587 / 0	-77.3 -77.3	0.33 (1)	4.91	2-16	-108 / 0	0.14 (1)	3-4	-1523 / 0	-77.3 -77.3	0.34 (1)	4.97	16-3	0 / 172	0.04 (3)	4-5	-1523 / 0	-77.3 -77.3	0.34 (1)	4.97	3-14	0 / 437	0.07 (1)	5-6	-1684 / 0	-77.3 -77.3	0.43 (1)	4.68	14-4	-524 / 0	0.31 (1)	6-7	-1684 / 0	-77.3 -77.3	0.43 (1)	4.68	14-5	0 / 284	0.05 (1)	7-8	-1949 / 0	-77.3 -77.3	0.47 (1)	4.38	12-5	0 / 335	0.08 (1)	8-9	0 / 29	-77.3 -77.3	0.10 (1)	10.00	12-7	-362 / 0	0.48 (1)	18-1	-1574 / 0	0.0 0.0	0.20 (1)	6.58	11-7	-169 / 52	0.08 (1)	10-8	-1675 / 0	0.0 0.0	0.17 (1)	6.41	1-17	0 / 1458	0.33 (1)						11-8	0 / 1672	0.38 (1)	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: <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>33.3</td><td>PSF</td><td></td></tr></table> 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 (0.14") 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 <table><tr><td>PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>MAX MIN</td><td>MAX MIN</td><td>MAX MIN</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><td></td><td></td></tr></table> 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)										TOP CH.	LL	=	23.3	PSF		DL	=	3.0	PSF	BOT CH.	LL	=	0.0	PSF		DL	=	7.0	PSF	TOTAL LOAD	=	33.3	PSF		PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)						MAX MIN	MAX MIN	MAX MIN	MAX MIN	MAX MIN	MAX MIN	MT20	618 354	1667 822	2284 1656		
CHORDS	SIZE	LUMBER	DESCR.	SPF																																																																																																																																																																																																																																																																																																																																																																		
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18	1614	0	1614	0																																																																																																																																																																																																																																																																																																																																																																		
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MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)																																																																																																																																																																																																																																																																																																																																																															
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1-2	-1619 / 0	-77.3 -77.3	0.34 (1)	4.86	17-2	-393 / 0	0.22 (1)																																																																																																																																																																																																																																																																																																																																																															
2-3	-1587 / 0	-77.3 -77.3	0.33 (1)	4.91	2-16	-108 / 0	0.14 (1)																																																																																																																																																																																																																																																																																																																																																															
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5-6	-1684 / 0	-77.3 -77.3	0.43 (1)	4.68	14-4	-524 / 0	0.31 (1)																																																																																																																																																																																																																																																																																																																																																															
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TOTAL WEIGHT = 172 lb
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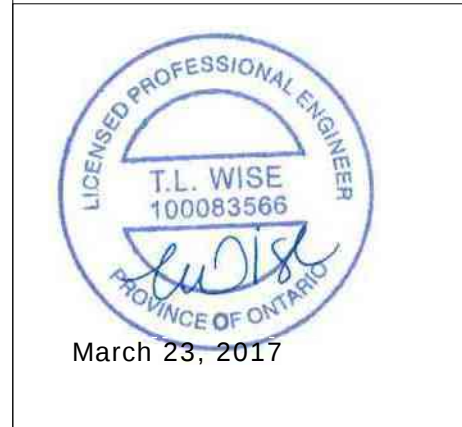
LUMBER				N. L. G. A. RULES	
CHORDS	SIZE	LUMBER	DESCR.		
1 - 3	2x4	DRY	No.2	SPF	
3 - 5	2x4	DRY	No.2	SPF	
5 - 6	2x4	DRY	No.2	SPF	
6 - 9	2x4	DRY	No.2	SPF	
17 - 1	2x4	DRY	No.2	SPF	
10 - 8	2x4	DRY	No.2	SPF	
17 - 14	2x4	DRY	No.2	SPF	
14 - 12	2x4	DRY	No.2	SPF	
12 - 10	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	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	TMWW-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	BMWW-t	MT20	3.0	8.0		
14	BS-t	MT20	3.0	6.0		
15	BMWW-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.



March 23, 2017

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. HORIZ. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. HORIZ. LOAD (LC)	
FR-TO		FROM TO	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 1-16	0 / 1478	0.33 (1)	
10-8	-1669 / 0	0.0 0.0	0.17 (1)	6.42 11-8	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

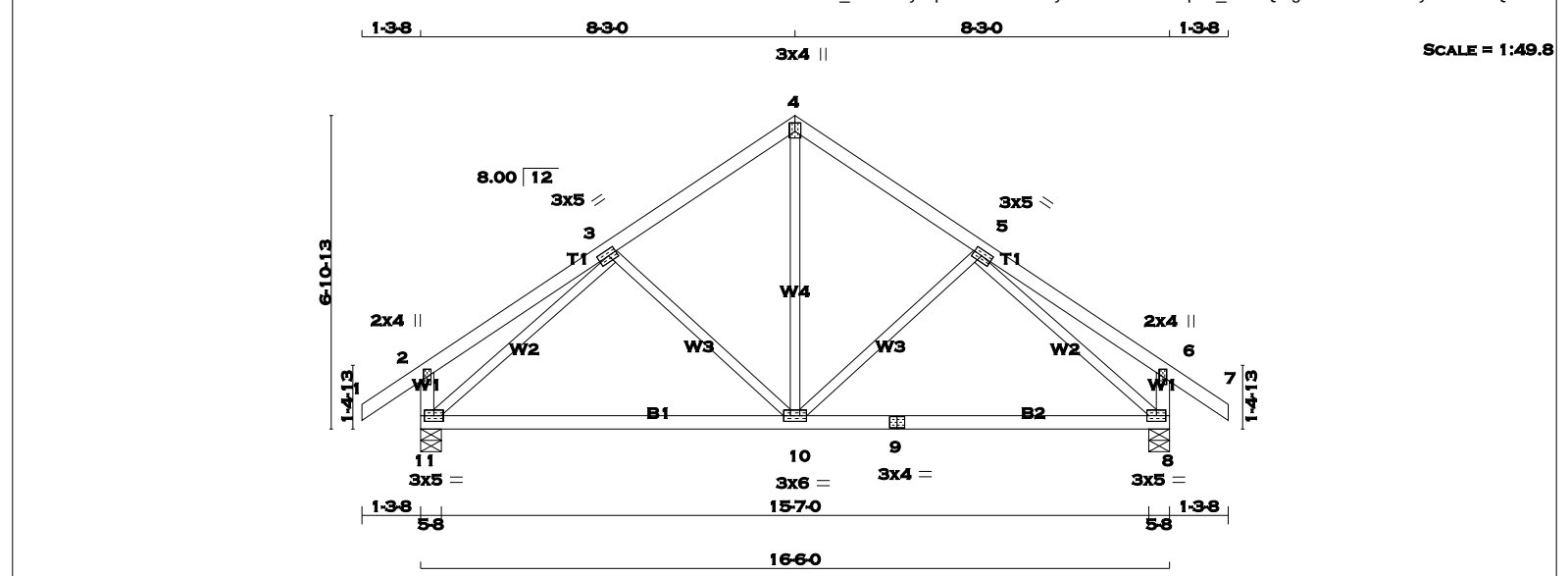
PLATE ROTATION TOL. = 5.0 Deg.

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.

RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 11F
BUILDING DIVISION



LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

1 - 4

2x4

DRY

No.2

SPF

4 - 7

2x4

DRY

No.2

SPF

11 - 2

2x4

DRY

No.2

SPF

8 - 6

2x4

DRY

No.2

SPF

11 - 9

2x4

DRY

No.2

SPF

9 - 8

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	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
11		889	0	889	0	0	5-8	5-8	
8		889	0	889	0	0	5-8	5-8	
UNFACTORED REACTIONS									
1ST LCASE MAX/MIN. COMPONENT REACTIONS									
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
11		621	448 / 0	0 / 0	0 / 0	0 / 0	173 / 0	0 / 0	
8		621	448 / 0	0 / 0	0 / 0	0 / 0	173 / 0	0 / 0	

PLATES (table is in inches)

JT

TYPE

PLATES

W

LEN

Y

X

2

TMV+p

MT20

2.0

4.0

3

TMVW-t

MT20

3.0

5.0

1.50

2.25

4

TTW+p

MT20

3.0

4.0

2.25

1.50

5

TMVW-t

MT20

3.0

5.0

1.50

2.25

6

TMV+p

MT20

2.0

4.0

8

BMVW1-t

MT20

3.0

5.0

9

BS-t

MT20

3.0

4.0

10

BMVW-t

MT20

3.0

6.0

11

BMVW1-t

MT20

3.0

5.0

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

LOADING									
TOTAL LOAD CASES: (3)									
CHORDS									
		MAX. FACTORED		FACTORED		WEBS		MAX. FACTORED	
		MEMB. FORCE		VERT. LOAD LC1 MAX		MEMB. FORCE		MEMB. FORCE	
		(LBS)		(PLF)		(LBS)		(LBS)	
				CSI (LC)				CSI (LC)	
				UNBRAC					
				LENGTH					
				FR-TO					
1-2		0 / 29		-77.3	-77.3	0.10 (1)	10.00	10-4	0 / 437
2-3		0 / 21		-77.3	-77.3	0.21 (1)	10.00	10-5	-190 / 2
3-4		-636 / 0		-77.3	-77.3	0.16 (1)	6.25	3-10	-190 / 2
4-5		-636 / 0		-77.3	-77.3	0.16 (1)	6.25	11-3	-889 / 0
5-6		0 / 21		-77.3	-77.3	0.21 (1)	10.00	5-8	-889 / 0
6-7		0 / 29		-77.3	-77.3	0.10 (1)	10.00		
11-2		-228 / 0		0.0	0.0	0.02 (1)	7.81		
8-6		-228 / 0		0.0	0.0	0.02 (1)	7.81		
11-10		0 / 651		-17.5	-17.5	0.39 (3)	10.00		
10-9		0 / 651		-17.5	-17.5	0.39 (3)	10.00		
9-8		0 / 651		-17.5	-17.5	0.39 (3)	10.00		

LICENSED PROFESSIONAL ENGINEER

T.L. WISE

100083566

PROVINCE OF ONTARIO

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.

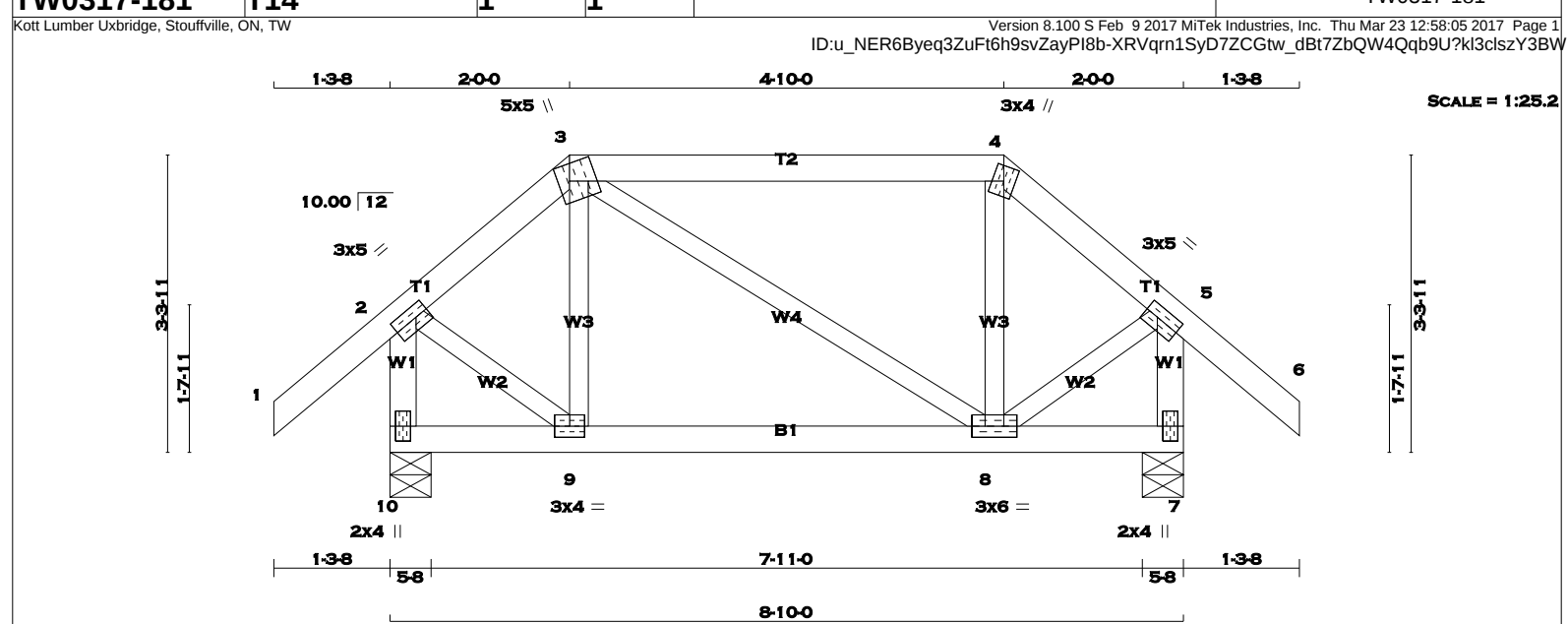
RECEIVED

TOWN OF MILTON

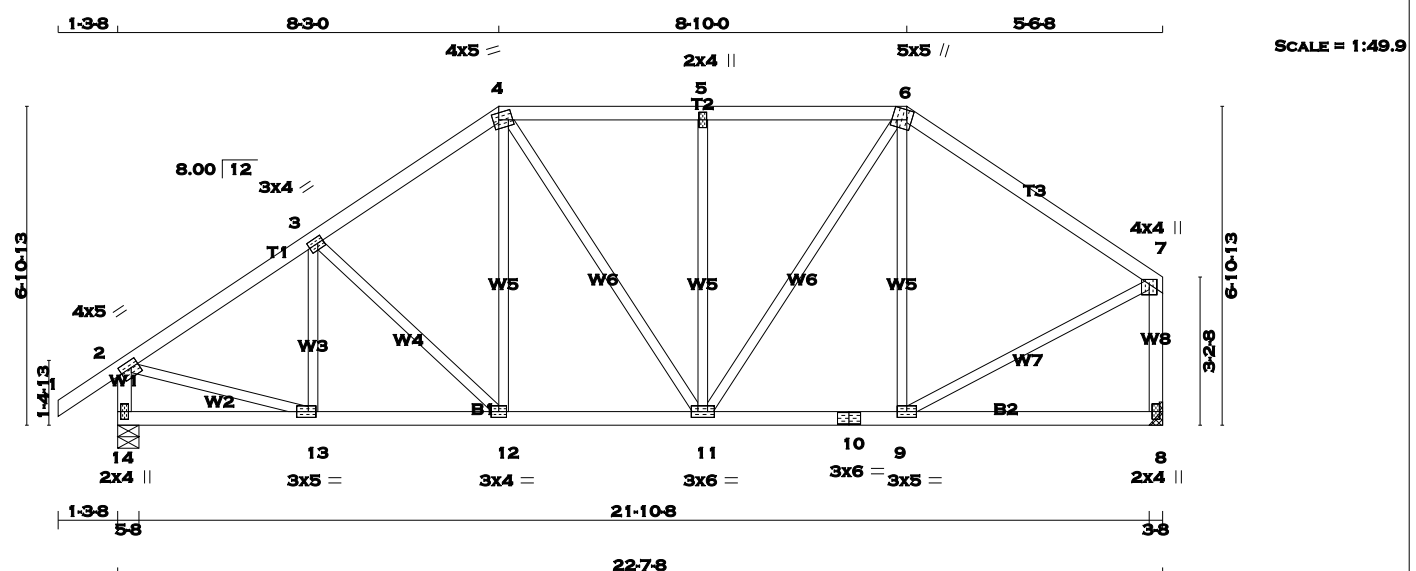
MAR 29, 2017

JUNIPER 11F

BUILDING DIVISION



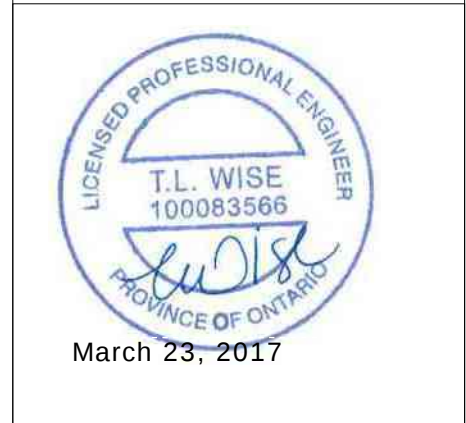
TOTAL WEIGHT = 41 lb							[M]																																																																																																																																																																																																																																																								
LUMBER N. L. G. A. RULES <table><tr><td>CHORDS</td><td>SIZE</td><td>LUMBER</td><td>DESCR.</td></tr><tr><td>1 - 3</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>3 - 4</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>4 - 6</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>10 - 2</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>7 - 5</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>10 - 7</td><td>2x4</td><td>DRY</td><td>No.2</td></tr></table> ALL WEBS 2x3 DRY No.2 EXCEPT DRY: SEASONED LUMBER.							CHORDS	SIZE	LUMBER	DESCR.	1 - 3	2x4	DRY	No.2	3 - 4	2x4	DRY	No.2	4 - 6	2x4	DRY	No.2	10 - 2	2x4	DRY	No.2	7 - 5	2x4	DRY	No.2	10 - 7	2x4	DRY	No.2	DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><td></td><td>FACTORED</td><td>MAXIMUM FACTORED</td><td>INPUT</td><td>REQRD</td></tr><tr><td></td><td>GROSS REACTION</td><td>GROSS REACTION</td><td>BRG</td><td>BRG</td></tr><tr><td>JT</td><td>VERT</td><td>HORZ</td><td>DOWN</td><td>HORZ</td></tr><tr><td>10</td><td>526</td><td>0</td><td>526</td><td>0</td></tr><tr><td>7</td><td>526</td><td>0</td><td>526</td><td>0</td></tr></table> UNFACTORED REACTIONS <table><tr><td>1ST LCASE</td><td colspan="7">MAX./MIN. COMPONENT REACTIONS</td></tr><tr><td>JT</td><td>COMBINED</td><td>SNOW</td><td>LIVE</td><td>PERM.LIVE</td><td>WIND</td><td>DEAD</td><td>SOIL</td></tr><tr><td>10</td><td>367</td><td>270 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>97 / 0</td><td>0 / 0</td></tr><tr><td>7</td><td>367</td><td>270 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>97 / 0</td><td>0 / 0</td></tr></table> BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 10, 7 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (3) <table><tr><td colspan="4">CHORDS</td><td colspan="4">WEBS</td></tr><tr><td>MEMB.</td><td>MAX. FACTORED FORCE (LBS)</td><td>FACTORED VERT. LOAD (PLF)</td><td>MAX LC1 (LC)</td><td>MEMB.</td><td>MAX. FACTORED FORCE (LBS)</td><td>FACTORED VERT. LOAD (LBS)</td><td>MAX LC1 (LC)</td></tr><tr><td>FR-TO</td><td></td><td>FROM</td><td>TO</td><td>FR-TO</td><td></td><td>FROM</td><td>TO</td></tr><tr><td>1-2</td><td>0 / 34</td><td>-77.3</td><td>-77.3 0.11 (1)</td><td>10.00</td><td>9-3</td><td>-71 / 34</td><td>0.01 (1)</td></tr><tr><td>2-3</td><td>-299 / 0</td><td>-77.3</td><td>-77.3 0.05 (1)</td><td>6.25</td><td>3-8</td><td>0 / 0</td><td>0.00 (1)</td></tr><tr><td>3-4</td><td>-226 / 0</td><td>-77.3</td><td>-77.3 0.31 (1)</td><td>6.25</td><td>8-4</td><td>-72 / 34</td><td>0.01 (1)</td></tr><tr><td>4-5</td><td>-298 / 0</td><td>-77.3</td><td>-77.3 0.05 (1)</td><td>6.25</td><td>2-9</td><td>0 / 269</td><td>0.06 (1)</td></tr><tr><td>5-6</td><td>0 / 34</td><td>-77.3</td><td>-77.3 0.11 (1)</td><td>10.00</td><td>8-5</td><td>0 / 268</td><td>0.06 (1)</td></tr><tr><td>10-2</td><td>-519 / 0</td><td>0.0</td><td>0.0 0.06 (1)</td><td>7.81</td><td></td><td></td><td></td></tr><tr><td>7-5</td><td>-518 / 0</td><td>0.0</td><td>0.0 0.06 (1)</td><td>7.81</td><td></td><td></td><td></td></tr><tr><td>10-9</td><td>0 / 0</td><td>-17.5</td><td>-17.5 0.06 (3)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>9-8</td><td>0 / 226</td><td>-17.5</td><td>-17.5 0.08 (3)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>8-7</td><td>0 / 0</td><td>-17.5</td><td>-17.5 0.06 (3)</td><td>10.00</td><td></td><td></td><td></td></tr></table>								FACTORED	MAXIMUM FACTORED	INPUT	REQRD		GROSS REACTION	GROSS REACTION	BRG	BRG	JT	VERT	HORZ	DOWN	HORZ	10	526	0	526	0	7	526	0	526	0	1ST LCASE	MAX./MIN. COMPONENT REACTIONS							JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	10	367	270 / 0	0 / 0	0 / 0	0 / 0	97 / 0	0 / 0	7	367	270 / 0	0 / 0	0 / 0	0 / 0	97 / 0	0 / 0	CHORDS				WEBS				MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX LC1 (LC)	FR-TO		FROM	TO	FR-TO		FROM	TO	1-2	0 / 34	-77.3	-77.3 0.11 (1)	10.00	9-3	-71 / 34	0.01 (1)	2-3	-299 / 0	-77.3	-77.3 0.05 (1)	6.25	3-8	0 / 0	0.00 (1)	3-4	-226 / 0	-77.3	-77.3 0.31 (1)	6.25	8-4	-72 / 34	0.01 (1)	4-5	-298 / 0	-77.3	-77.3 0.05 (1)	6.25	2-9	0 / 269	0.06 (1)	5-6	0 / 34	-77.3	-77.3 0.11 (1)	10.00	8-5	0 / 268	0.06 (1)	10-2	-519 / 0	0.0	0.0 0.06 (1)	7.81				7-5	-518 / 0	0.0	0.0 0.06 (1)	7.81				10-9	0 / 0	-17.5	-17.5 0.06 (3)	10.00				9-8	0 / 226	-17.5	-17.5 0.08 (3)	10.00				8-7	0 / 0	-17.5	-17.5 0.06 (3)	10.00				DESIGN CRITERIA SPECIFIED LOADS: <table><tr><td>TOP</td><td>CH.</td><td>LL</td><td>=</td><td>23.3</td><td>PSF</td></tr><tr><td></td><td></td><td>DL</td><td>=</td><td>3.0</td><td>PSF</td></tr><tr><td>BOT</td><td>CH.</td><td>LL</td><td>=</td><td>0.0</td><td>PSF</td></tr><tr><td></td><td></td><td>DL</td><td>=</td><td>7.0</td><td>PSF</td></tr><tr><td>TOTAL</td><td>LOAD</td><td>=</td><td>33.3</td><td>PSF</td><td></td></tr></table> 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 (0.29") 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=0.31 (3-4:1) , BC=0.08 (8-9:3) , WB=0.06 (2-9:1) , SSI=0.15 (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 <table><tr><td>PLATE</td><td>GRIP(DRY)</td><td>SHEAR</td><td>SECTION</td></tr><tr><td></td><td>(PSI)</td><td>(PLI)</td><td>(PLI)</td></tr><tr><td></td><td>MAX</td><td>MIN</td><td>MAX</td></tr><tr><td>MT20</td><td>618</td><td>354</td><td>1667</td></tr></table> PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.52 (4) (INPUT = 0.90) JSI METAL= 0.13 (2) (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)	SHEAR	SECTION		(PSI)	(PLI)	(PLI)		MAX	MIN	MAX	MT20	618	354	1667
CHORDS	SIZE	LUMBER	DESCR.																																																																																																																																																																																																																																																												
1 - 3	2x4	DRY	No.2																																																																																																																																																																																																																																																												
3 - 4	2x4	DRY	No.2																																																																																																																																																																																																																																																												
4 - 6	2x4	DRY	No.2																																																																																																																																																																																																																																																												
10 - 2	2x4	DRY	No.2																																																																																																																																																																																																																																																												
7 - 5	2x4	DRY	No.2																																																																																																																																																																																																																																																												
10 - 7	2x4	DRY	No.2																																																																																																																																																																																																																																																												
	FACTORED	MAXIMUM FACTORED	INPUT	REQRD																																																																																																																																																																																																																																																											
	GROSS REACTION	GROSS REACTION	BRG	BRG																																																																																																																																																																																																																																																											
JT	VERT	HORZ	DOWN	HORZ																																																																																																																																																																																																																																																											
10	526	0	526	0																																																																																																																																																																																																																																																											
7	526	0	526	0																																																																																																																																																																																																																																																											
1ST LCASE	MAX./MIN. COMPONENT REACTIONS																																																																																																																																																																																																																																																														
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL																																																																																																																																																																																																																																																								
10	367	270 / 0	0 / 0	0 / 0	0 / 0	97 / 0	0 / 0																																																																																																																																																																																																																																																								
7	367	270 / 0	0 / 0	0 / 0	0 / 0	97 / 0	0 / 0																																																																																																																																																																																																																																																								
CHORDS				WEBS																																																																																																																																																																																																																																																											
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX LC1 (LC)																																																																																																																																																																																																																																																								
FR-TO		FROM	TO	FR-TO		FROM	TO																																																																																																																																																																																																																																																								
1-2	0 / 34	-77.3	-77.3 0.11 (1)	10.00	9-3	-71 / 34	0.01 (1)																																																																																																																																																																																																																																																								
2-3	-299 / 0	-77.3	-77.3 0.05 (1)	6.25	3-8	0 / 0	0.00 (1)																																																																																																																																																																																																																																																								
3-4	-226 / 0	-77.3	-77.3 0.31 (1)	6.25	8-4	-72 / 34	0.01 (1)																																																																																																																																																																																																																																																								
4-5	-298 / 0	-77.3	-77.3 0.05 (1)	6.25	2-9	0 / 269	0.06 (1)																																																																																																																																																																																																																																																								
5-6	0 / 34	-77.3	-77.3 0.11 (1)	10.00	8-5	0 / 268	0.06 (1)																																																																																																																																																																																																																																																								
10-2	-519 / 0	0.0	0.0 0.06 (1)	7.81																																																																																																																																																																																																																																																											
7-5	-518 / 0	0.0	0.0 0.06 (1)	7.81																																																																																																																																																																																																																																																											
10-9	0 / 0	-17.5	-17.5 0.06 (3)	10.00																																																																																																																																																																																																																																																											
9-8	0 / 226	-17.5	-17.5 0.08 (3)	10.00																																																																																																																																																																																																																																																											
8-7	0 / 0	-17.5	-17.5 0.06 (3)	10.00																																																																																																																																																																																																																																																											
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)	SHEAR	SECTION																																																																																																																																																																																																																																																												
	(PSI)	(PLI)	(PLI)																																																																																																																																																																																																																																																												
	MAX	MIN	MAX																																																																																																																																																																																																																																																												
MT20	618	354	1667																																																																																																																																																																																																																																																												
 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 MAR 29, 2017 JUNIPER 11F BUILDING DIVISION																																																																																																																																																																																																																																																								



TOTAL WEIGHT = 104 lb
[M][F]

LUMBER									
N. L. G. A. RULES									
CHORDS	SIZE	LUMBER	DESCR.						
1 - 4	2x4	DRY	No.2	SPF					
4 - 6	2x4	DRY	No.2	SPF					
6 - 7	2x4	DRY	No.2	SPF					
14 - 2	2x4	DRY	No.2	SPF					
8 - 7	2x4	DRY	No.2	SPF					
14 - 10	2x4	DRY	No.2	SPF					
10 - 8	2x4	DRY	No.2	SPF					
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF					
DRY: SEASONED LUMBER.									

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.75	2.00
3	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TTWW-m	MT20	4.0	5.0	1.75	1.50
5	TMW+w	MT20	2.0	4.0		
6	TTWW+m	MT20	5.0	5.0	Edge 3.75	
7	TMVW+p	MT20	4.0	4.0	1.25	2.00
8	BMV1+p	MT20	2.0	4.0		
9	BMWW-t	MT20	3.0	5.0		
10	BS-t	MT20	3.0	6.0		
11	BMWWW-t	MT20	3.0	6.0		
12	BMWW-t	MT20	3.0	4.0		
13	BMWW-t	MT20	3.0	5.0	1.50	2.00
14	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.						



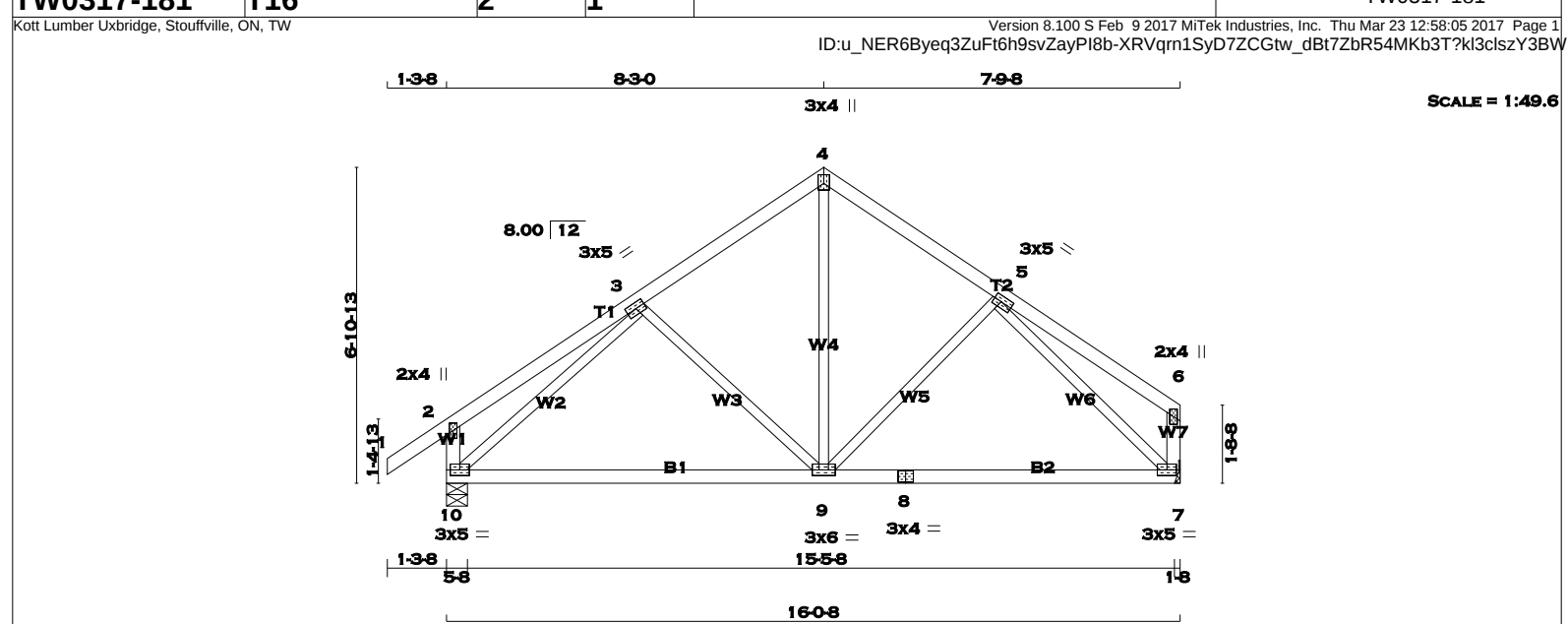
DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
	FACTORED GROSS REACTION			MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG	
JT	VERT	HORZ		DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
14	1179	0		1179	0	0	5-8	5-8	
8	1073	0		1073	0	0	HANGER BY OTHERS		
MIN. SEAT SIZE: 3-8									
UNFACTORED REACTIONS									
	1ST LCASE	MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
14	825	591 / 0	0 / 0	0 / 0	0 / 0	234 / 0	0 / 0		
8	753	527 / 0	0 / 0	0 / 0	0 / 0	226 / 0	0 / 0		
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 14									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.71 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				
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	13-3	-177 / 16	0.05 (1)		
2-3	-1170 / 0	-77.3	-77.3 0.18 (1)	5.71	3-12	-187 / 0	0.10 (1)		
3-4	-1050 / 0	-77.3	-77.3 0.18 (1)	5.94	12-4	0 / 207	0.05 (1)		
4-5	-934 / 0	-77.3	-77.3 0.20 (1)	6.18	4-11	0 / 137	0.03 (1)		
5-6	-934 / 0	-77.3	-77.3 0.20 (1)	6.18	11-5	-416 / 0	0.34 (1)		
6-7	-834 / 0	-77.3	-77.3 0.32 (1)	6.25	11-6	0 / 439	0.10 (1)		
14-2	-1147 / 0	0.0	0.0 0.12 (1)	7.43	9-6	-249 / 8	0.20 (1)		
8-7	-1033 / 0	0.0	0.0 0.18 (1)	7.72	2-13	0 / 1022	0.23 (1)		
					9-7	0 / 779	0.18 (1)		
14-13	0 / 0	-17.5	-17.5 0.07 (3)	10.00					
13-12	0 / 990	-17.5	-17.5 0.20 (1)	10.00					
12-11	0 / 858	-17.5	-17.5 0.17 (1)	10.00					
11-10	0 / 689	-17.5	-17.5 0.18 (1)	10.00					
10-9	0 / 689	-17.5	-17.5 0.18 (1)	10.00					
9-8	0 / 0	-17.5	-17.5 0.12 (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 (0.75")				
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")				
ALLOWABLE DEFL.(TL)= L/360 (0.75")				
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")				
CSI: TC=0.32 (6-7:1), BC=0.20 (12-13:1), WB=0.34 (5-11:1), SSI=0.16 (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 (PLI)	SECTION (PLI)		
	MAX MIN	MAX MIN	MAX MIN	
MT20	618 354	1667 822	2284 1656	
PLATE PLACEMENT TOL. = 0.250 inches				
PLATE ROTATION TOL. = 5.0 Deg.				
JSI GRIP= 0.89 (11) (INPUT = 0.90)				
JSI METAL= 0.40 (2) (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 - 6	2x4	DRY	No.2	SPF
10 - 2	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMVW-t	MT20	3.0	5.0		
4	TTW+p	MT20	3.0	4.0	2.25	1.50
5	TMVW-t	MT20	3.0	5.0	1.50	2.00
6	TMV+p	MT20	2.0	4.0		
7	BMVW1-t	MT20	3.0	5.0		
8	BS-t	MT20	3.0	4.0		
9	BMVW-t	MT20	3.0	6.0		
10	BMVW1-t	MT20	3.0	5.0		

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
10	867	0	867	0	0	5-8	5-8
7	761	0	761	0	0	HANGER BY OTHERS	
MIN. SEAT SIZE: 1-8							

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	SNOW	LIVE	PERM.LIVE	WIND	DEAD
10	606	437 / 0	0 / 0	0 / 0	0 / 0	0 / 0	169 / 0
7	534	373 / 0	0 / 0	0 / 0	0 / 0	0 / 0	160 / 0

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

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.

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.3 -77.3	0.10 (1)	3-9	-196 / 0	10.00	0.11 (1)
2-3	0 / 21	-77.3 -77.3	0.21 (1)	9-4	0 / 405	10.00	0.09 (1)
3-4	-602 / 0	-77.3 -77.3	0.16 (1)	6-25	-139 / 13	6.25	0.07 (1)
4-5	-600 / 0	-77.3 -77.3	0.15 (1)	6-25	-856 / 0	10-3	0.45 (1)
5-6	0 / 19	-77.3 -77.3	0.19 (1)	10-00	-831 / 0	5-7	0.42 (1)
10-2	-228 / 0	0.0 0.0	0.02 (1)	7.81			
7-6	-115 / 0	0.0 0.0	0.01 (1)	7.81			
10-9	0 / 627	-17.5 -17.5	0.37 (3)	10.00			
9-8	0 / 581	-17.5 -17.5	0.36 (3)	10.00			
8-7	0 / 581	-17.5 -17.5	0.36 (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

(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 (0.53")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.53")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.21 (2-3:1) , BC=0.37 (9-10:3) , WB=0.45 (3-10:1) , SSI=0.13 (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 .

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= 0.89 (3) (INPUT = 0.90)
JSI METAL= 0.24 (3) (INPUT = 1.00)

March 23, 2017

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

Snow Load: 30 PLF

Dead Load: 15 PLF

Member Type: Beam

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: Continuous

Moisture Condition: Dry

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

Deck Connection: Nailed

Filename: Beam1

Application: Roof

Slope: 0.00 / 12

Building Code: OBC-2012

0.720" max. LL

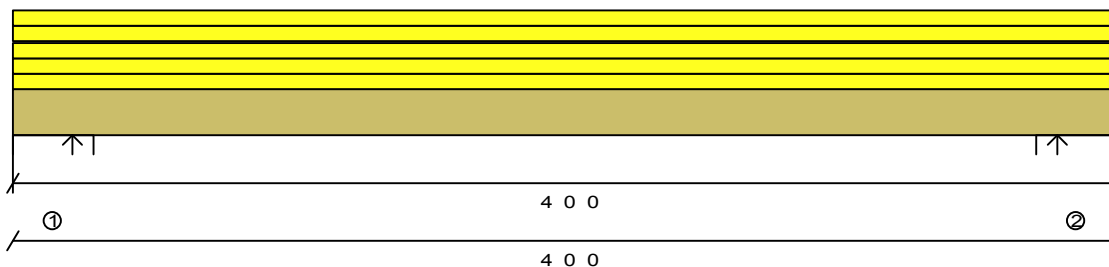
Member Weight: 3.9 PLF

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"	4' 0.00"		0		35		Live
Additional Uniform (PLF)	Top	0' 0.00"	4' 0.00"		82		0		Snow
Additional Uniform (PLF)	Top	0' 0.00"	4' 0.00"		0		10		Live
Additional Uniform (PLF)	Top	0' 0.00"	4' 0.00"		0		10		Live
Additional Uniform (PLF)	Top	0' 0.00"	4' 0.00"		23		0		Live

**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"	485#	--
2	4' 0.000"	Wall	Steel	3.500"	1.500"	485#	--

Maximum Unfactored Load Case Reactions

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

	Live	Snow	Dead
1	42#	200#	132#
2	42#	200#	132#

Design spans
3' 6.750"**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	432.#	4049.#	10%	2'	Total Load 1.25D+1.00*1.5S+0.5L
Shear	320.#	2271.#	14%	0.23'	Total Load 1.25D+1.00*1.5S+0.5L
Max. Reaction	485.#	6457.#	7%	0'	Total Load 1.25D+1.00*1.5S+0.5L
TL Deflection	0.0054"	0.1781"	L/999+	2'	Total Load D+S+0.5L
LL Deflection	0.0034"	0.1187"	L/999+	2'	Total Load S+0.5L

(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

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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.

March 23, 2017

CS Beam 4.11.26.1
kmBeamEngine 4.11.26.1
Materials Database 1516**Member Data B2****Description:****Standard Load:**

Snow Load: 30 PLF

Dead Load: 15 PLF

Member Type: Beam

Top Lateral Bracing: Continuous

Bottom Lateral Bracing: Continuous

Moisture Condition: Dry

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

Deck Connection: Nailed

Filename: Beam2

Application: Roof

Slope: 0.00 / 12

Building Code: OBC-2012

0.720" max. LL

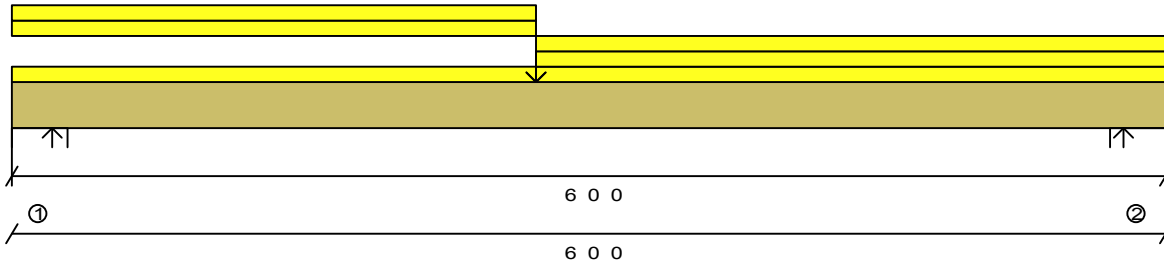
Member Weight: 3.9 PLF

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' 8.75"		0		40		Live
Additional Uniform (PLF)	Top	0' 0.00"	2' 8.75"		114		0		Snow
Point (LBS)	Top	2' 8.75"			0		306		Live
Point (LBS)	Top	2' 8.75"			713		0		Snow
Additional Uniform (PLF)	Top	2' 8.75"	6' 0.00"		0		113		Live
Additional Uniform (PLF)	Top	2' 8.75"	6' 0.00"		264		0		Snow
Additional Uniform (PLF)	Top	0' 0.00"	6' 0.00"		0		10		Live

**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"	1902#	--
2	6' 0.000"	Wall	Steel	3.500"	1.500"	2196#	--

Maximum Unfactored Load Case Reactions

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

	Snow	Dead
1	917#	421#
2	1054#	491#

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	3822.#	4049.#	94%	2.73'	Total Load 1.25D+1.00*1.5S
Shear	1822.#	2271.#	80%	5.22'	Total Load 1.25D+1.00*1.5S
Max. Reaction	2196.#	6457.#	34%	6'	Total Load 1.25D+1.00*1.5S
TL Deflection	0.1018"	0.2781"	L/655	3'	Total Load D+S
LL Deflection	0.0699"	0.1854"	L/955	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.

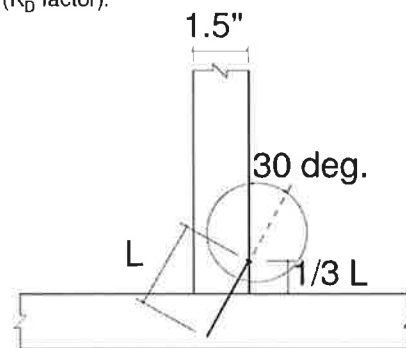
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

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



MiTek Canada Inc
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April 24, 2015

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

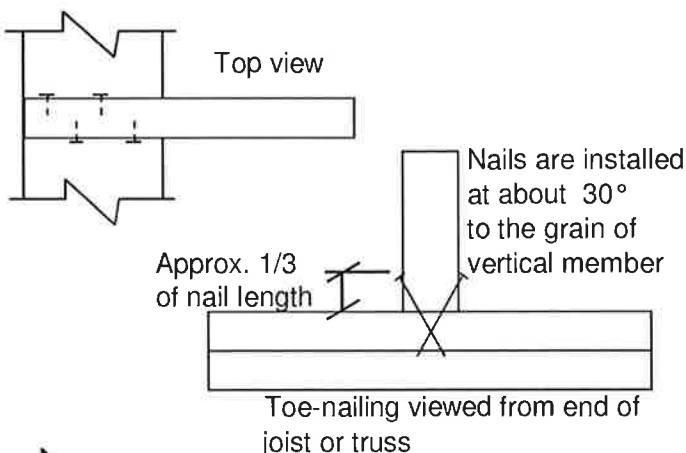
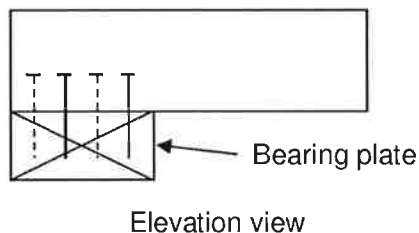
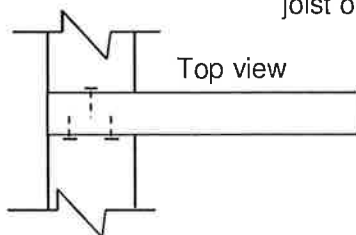
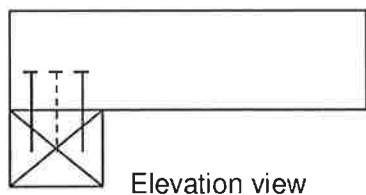
B37579H2

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**

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