

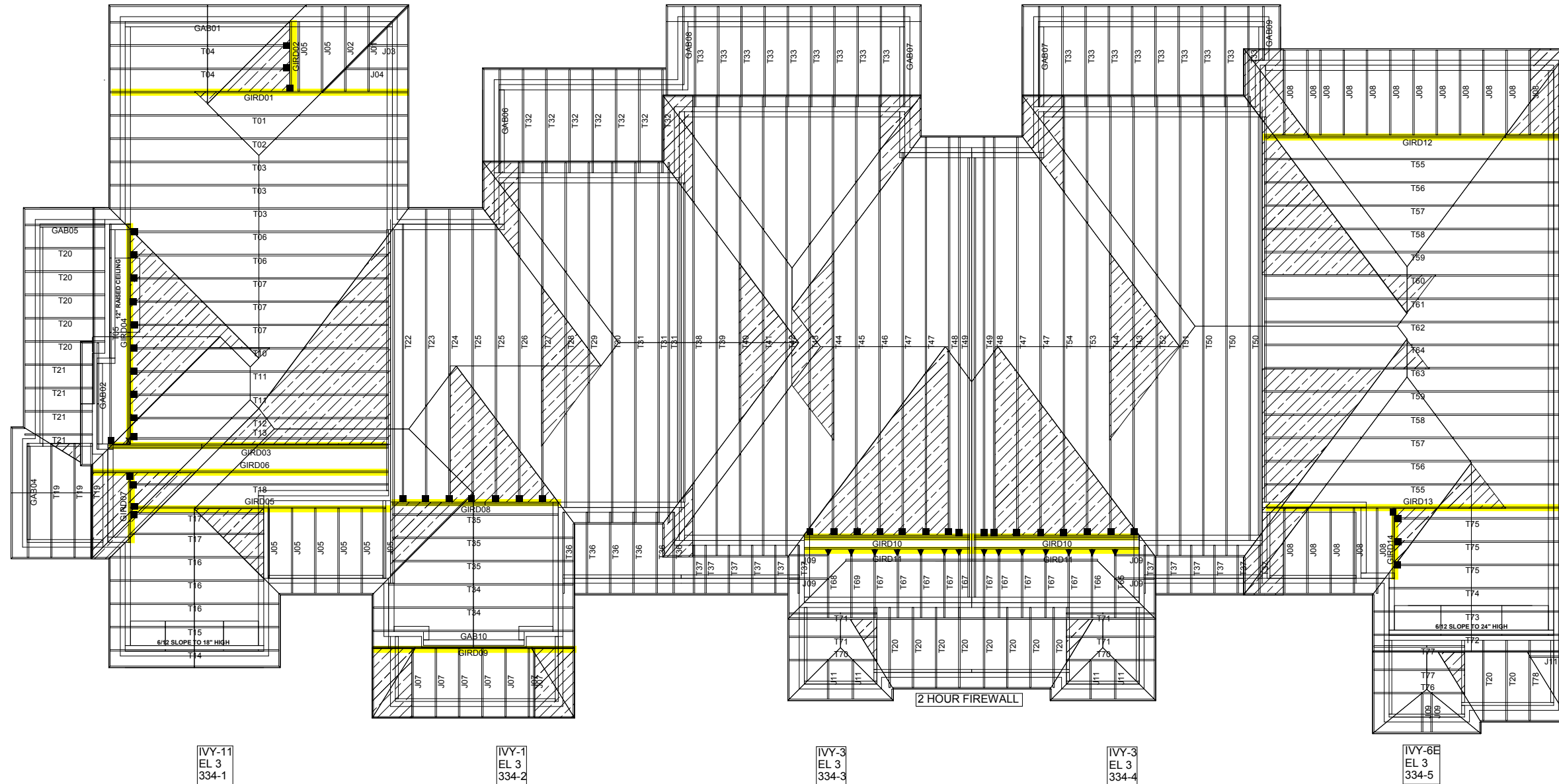


TOWN OF MILTON
PLANNING AND DEVELOPMENT
BUILDING PERMIT:17-5181

BUILDING: REVIEWED
SCOTT SHERRIFFS APR 24, 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

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TOP OF ALL PORCH BEAMS
AT 8' 7 1/4" A.F.F.

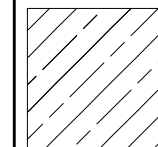
UNDERSIDE OF SOFFIT
FOR PORCHES AT
8' 6" A.F.F.

GARAGE WALL PLATES
AT 9' 1 2/16" A.F.F.

PARTY WALLS TO BE
FRAMED ON SITE A.P.P.

HANGER LEGEND:

▼ LUS24 ■ LJS26DS
● HGUS26 × HGUS26-2



CONVENTIONAL FRAMING BY OTHERS

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

ALL CONVENTIONAL FRAMING TO CONFORM WITH
PART 9 OF THE O.B.C.
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'.

Model: **BLOCK 334**
Customer: GREENPARK
Project: LECCO RIDGE
Location: MILTON
Date: 3/13/2017 Drawn by: BB

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

RESPONSIBILITIES

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

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

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

USE AND OCCUPANCY

- The building is of the type indicated on the drawing

LOADING

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

HANDLING, INSTALLATION AND BRACING

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

SUPPORTS

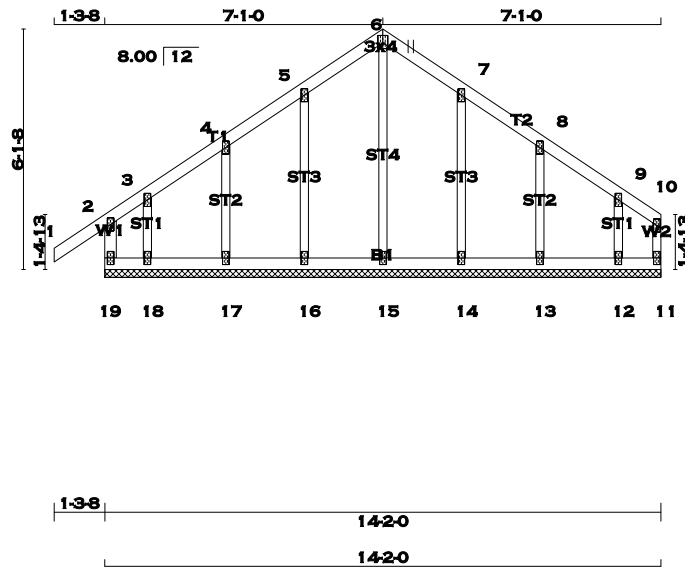
- The trusses are to be supported at the bearing points indicated and anchored to the supports where considered necessary by the designer of the overall structure
- Bearing sizes shown are the minimum required to prevent crushing of the truss members and do not necessarily take into account stability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

DIMENSIONS

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

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01/29/2013



SCALE = 1:58.7

TOTAL WEIGHT = 58 lb [M]

LUMBER				DESCR.	
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
19 - 2	2x4	DRY	No.2	SPF	
1 - 6	2x4	DRY	No.2	SPF	
6 - 10	2x4	DRY	No.2	SPF	
11 - 10	2x3	DRY	No.2	SPF	
19 - 11	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" O.C.					

PLATES (table is in inches)					
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	
11	BMV1+p	MT20	2.0	4.0	
12, 13, 14, 15, 16, 17, 18					
12	BMW1+w	MT20	2.0	4.0	
19	BMV1+p	MT20	2.0	4.0	

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

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

BEARINGS
THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)
BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
19-2	-190 / 0	0.0	0.0 0.02 (1)	7.81	15-6	-174 / 0	0.10 (1)
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	16-5	-155 / 0	0.05 (1)
2-3	-24 / 0	-77.3	-77.3 0.08 (1)	6.25	17-4	-161 / 0	0.03 (1)
3-4	0 / 9	-77.3	-77.3 0.04 (1)	10.00	18-3	-60 / 0	0.01 (1)
4-5	0 / 9	-77.3	-77.3 0.04 (1)	10.00	14-7	-157 / 0	0.05 (1)
5-6	0 / 13	-77.3	-77.3 0.04 (1)	10.00	13-8	-156 / 0	0.03 (1)
6-7	0 / 13	-77.3	-77.3 0.04 (1)	10.00	12-9	-126 / 0	0.02 (1)
7-8	0 / 9	-77.3	-77.3 0.04 (1)	10.00			
8-9	0 / 7	-77.3	-77.3 0.04 (1)	10.00			
9-10	0 / 7	-77.3	-77.3 0.03 (1)	10.00			
11-10	-23 / 0	0.0	0.0 0.00 (1)	7.81			
19-18	0 / 0	-17.5	-17.5 0.02 (1)	10.00			
18-17	-4 / 0	-17.5	-17.5 0.01 (4)	10.00			
17-16	-8 / 0	-17.5	-17.5 0.01 (4)	10.00			
16-15	-11 / 0	-17.5	-17.5 0.01 (4)	6.25			
15-14	-11 / 0	-17.5	-17.5 0.01 (4)	6.25			
14-13	-8 / 0	-17.5	-17.5 0.01 (4)	10.00			
13-12	-4 / 0	-17.5	-17.5 0.01 (4)	10.00			
12-11	0 / 2	-17.5	-17.5 0.01 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

CSI: TC=0.10 (1-2:1), BC=0.02 (18-19:1), WB=0.10 (6-15:1), 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.

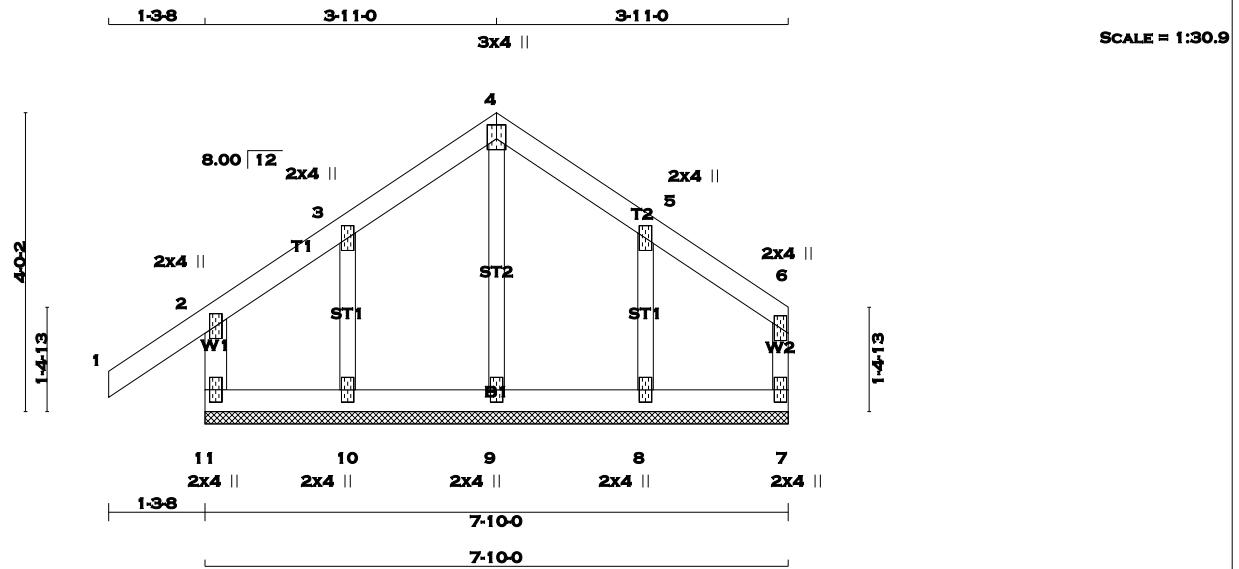
JSI GRIP= 0.12 (2) (INPUT = 0.90)
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TOTAL WEIGHT = 30 lb [M]

LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
11 - 2	2x4	DRY	No.2	SPF
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
7 - 6	2x3	DRY	No.2	SPF
11 - 7	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" O.C.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMV+p	MT20	2.0	4.0	
3	TMW+w	MT20	2.0	4.0	
4	TTW+p	MT20	3.0	4.0	2.25 1.50
5	TMW+w	MT20	2.0	4.0	
6	TMV+p	MT20	2.0	4.0	
7	BMV1+p	MT20	2.0	4.0	
8, 9, 10					
8	BMW1+w	MT20	2.0	4.0	
11	BMV1+p	MT20	2.0	4.0	

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

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

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

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

LOADING							
TOTAL LOAD CASES: (4)							
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
11-2	-199 / 0	0.0	0.0 0.02 (1)	7.81	9-4	-172 / 0	0.04 (1)
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	10-3	-121 / 0	0.02 (1)
2-3	-12 / 0	-77.3	-77.3 0.08 (1)	6.25	8-5	-162 / 0	0.03 (1)
3-4	-2 / 8	-77.3	-77.3 0.04 (1)	10.00			
4-5	-2 / 5	-77.3	-77.3 0.04 (1)	10.00			
5-6	-3 / 6	-77.3	-77.3 0.04 (1)	10.00			
7-6	-58 / 0	0.0	0.0 0.01 (1)	7.81			
11-10	0 / 2	-17.5	-17.5 0.02 (1)	10.00			
10-9	-4 / 2	-17.5	-17.5 0.01 (4)	10.00			
9-8	-4 / 2	-17.5	-17.5 0.02 (4)	10.00			
8-7	0 / 3	-17.5	-17.5 0.02 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

CSI: TC=0.10 (1-2:1), BC=0.02 (10-11:1), WB=0.04 (4-9:1), 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.

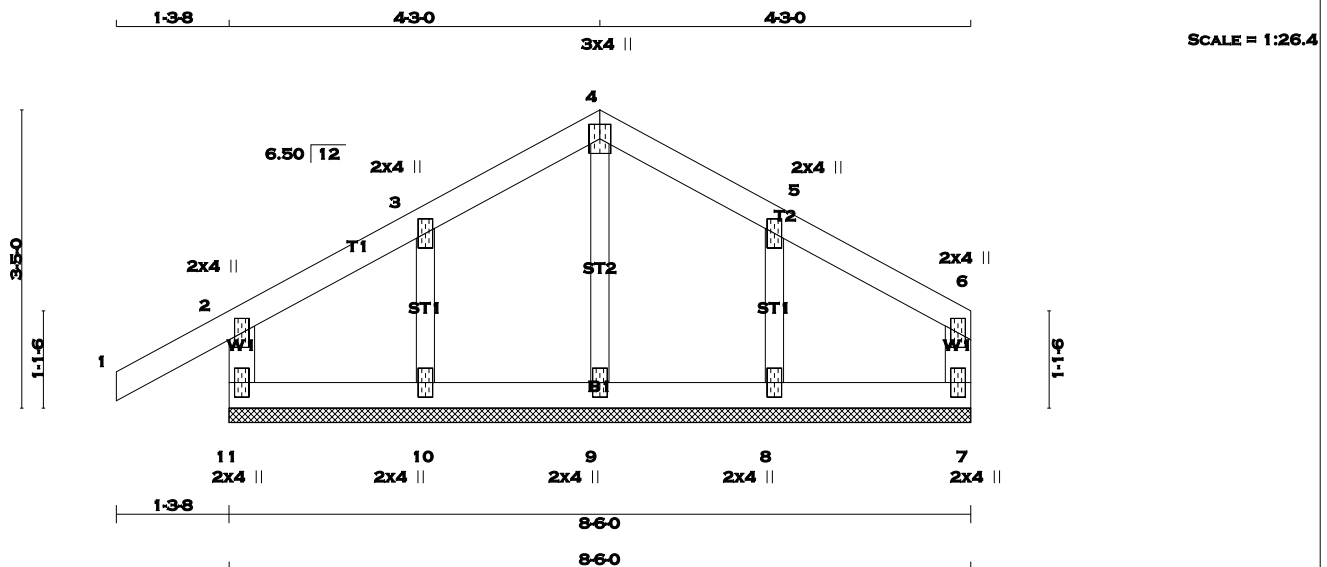
JSI GRIP= 0.13 (2) (INPUT = 0.90)
JSI METAL= 0.07 (4) (INPUT = 1.00)



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





TOTAL WEIGHT = 29 lb [M]

LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
11 - 2	2x4	DRY	No.2	SPF
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
11 - 7	2x4	DRY	No.2	SPF
ALL WEBS 2x3 DRY No.2				SPF
ALL GABLE WEBS 2x3 DRY No.2				SPF
DRY: SEASONED LUMBER.				
GABLE STUDS SPACED AT 2-0-0 OC.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMV+p	MT20	2.0	4.0	
3	TMW+w	MT20	2.0	4.0	
4	TTW+p	MT20	3.0	4.0	
5	TMW+w	MT20	2.0	4.0	
6	TMV+p	MT20	2.0	4.0	
7	BMV1+p	MT20	2.0	4.0	
8, 9, 10					
8	BMW1+w	MT20	2.0	4.0	
11	BMV1+p	MT20	2.0	4.0	
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.					

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

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

LOADING				TOTAL LOAD CASES: (4)			
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)
FR-TO		FROM TO		FR-TO		FROM TO	
11-2	-208 / 0	0.0	0.0 0.02 (1)	7.81	9-4	-128 / 0	0.03 (1)
1-2	0 / 25	-77.3	-77.3 0.10 (1)	10.00	10-3	-161 / 0	0.02 (1)
2-3	-37 / 0	-77.3	-77.3 0.04 (1)	6.25	8-5	-169 / 0	0.03 (1)
3-4	-30 / 0	-77.3	-77.3 0.04 (1)	6.25			
4-5	-31 / 0	-77.3	-77.3 0.04 (1)	6.25			
5-6	-34 / 0	-77.3	-77.3 0.04 (1)	6.25			
7-6	-97 / 0	0.0	0.0 0.03 (1)	7.81			
11-10	0 / 31	-17.5	-17.5 0.02 (4)	10.00			
10-9	0 / 26	-17.5	-17.5 0.02 (4)	10.00			
9-8	0 / 26	-17.5	-17.5 0.02 (4)	10.00			
8-7	0 / 32	-17.5	-17.5 0.02 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

CSI: TC=0.10 (1-2:1), BC=0.02 (7-8:4), WB=0.03 (5-8:1), 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
MT20	618	354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

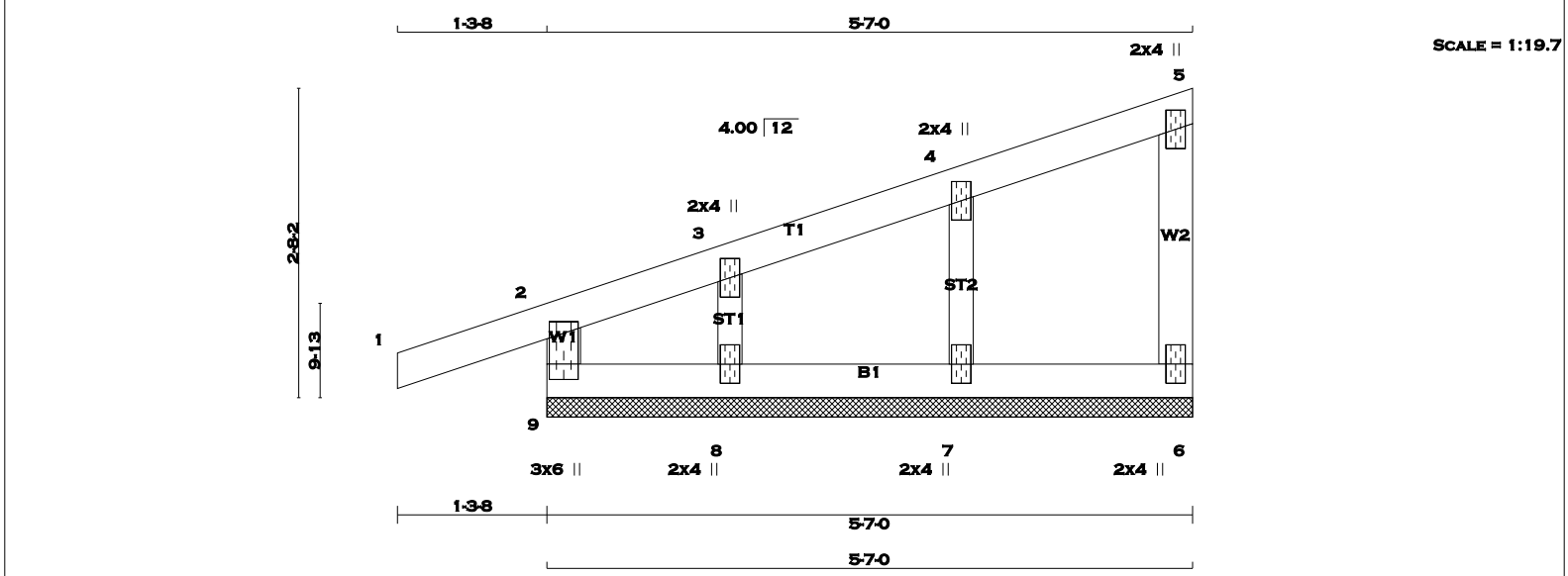
JSI GRIP= 0.15 (6) (INPUT = 0.90)
JSI METAL= 0.06 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 19 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
9 - 2	2x4	DRY	No.2	SPF
1 - 5	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
9 - 6	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				
GABLE STUDS SPACED AT 2-0-0 OC.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2						
3	TMW+w	MT20	2.0	4.0		
4	TMW+w	MT20	2.0	4.0		
5	TMV+p	MT20	2.0	4.0		
6	BMV1+p	MT20	2.0	4.0		
7	BMW1+w	MT20	2.0	4.0		
8	BMW1+w	MT20	2.0	4.0		
9						
9	TMBMV1+p	MT20	3.0	6.0	3.50	1.50
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.						

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

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

LOADING			
TOTAL LOAD CASES: (4)			
CHORDS			
MEMB. MAX. FACTORED FORCE (LBS)			
VERT. LOAD LC1 MAX (PLF) CSI (LC)			
UNBRAC LENGTH FR-TO			
WEBS			
MEMB. MAX. FACTORED FORCE (LBS) MAX CSI (LC)			
9-2	-195 / 0	0.0	0.0 0.03 (1)
1-2	0 / 16	-77.3	-77.3 0.10 (1)
2-3	-24 / 0	-77.3	-77.3 0.07 (1)
3-4	-7 / 0	-77.3	-77.3 0.04 (1)
4-5	-9 / 0	-77.3	-77.3 0.04 (1)
6-5	-66 / 0	0.0	0.0 0.01 (1)
9-8	0 / 15	-17.5	-17.5 0.03 (1)
8-7	0 / 10	-17.5	-17.5 0.02 (4)
7-6	0 / 5	-17.5	-17.5 0.02 (4)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF

DL = 3.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.0 PSF

TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

CSI: TC=0.10 (1-2:1) , BC=0.03 (8-9:1) , WB=0.03 (4-7:1) , SSI=0.08 (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
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (9) (INPUT = 0.90)

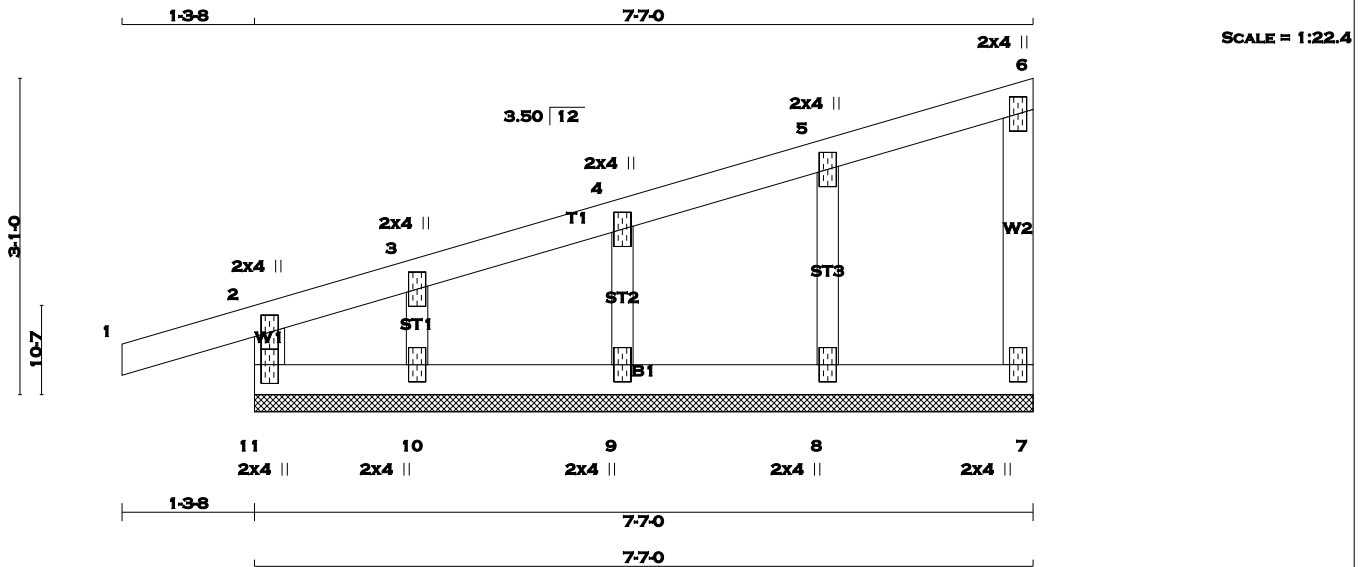
JSI METAL= 0.03 (7) (INPUT = 1.00)



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TOTAL WEIGHT = 26 lb [M]

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
11 - 2	2x4	DRY	No.2		SPF
1 - 6	2x4	DRY	No.2		SPF
7 - 6	2x4	DRY	No.2		SPF
11 - 7	2x4	DRY	No.2		SPF
ALL WEBS 2x3 DRY No.2					SPF
ALL GABLE WEBS 2x3 DRY No.2					SPF
DRY: SEASONED LUMBER.					
GABLE STUDS SPACED AT 2-0-0 OC.					

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3, 4, 5						
3	TMW+w	MT20	2.0	4.0		
6	TMV+p	MT20	2.0	4.0		
7	BMV1+p	MT20	2.0	4.0		
8, 9, 10						
8	BMW1+w	MT20	2.0	4.0		
11	BMV1+p	MT20	2.0	4.0	2.25	1.00

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

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

BEARINGS
THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)
BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
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			
11-2	-195 / 0	0.0	0.0 0.03 (1)	7.81	8-5	-164 / 0	0.03 (1)
1-2	0 / 14	-77.3	-77.3 0.10 (1)	10.00	9-4	-161 / 0	0.02 (1)
2-3	-25 / 0	-77.3	-77.3 0.07 (1)	6.25	10-3	-100 / 0	0.01 (1)
3-4	-10 / 0	-77.3	-77.3 0.04 (1)	6.25			
4-5	-8 / 0	-77.3	-77.3 0.04 (1)	10.00			
5-6	-8 / 0	-77.3	-77.3 0.04 (1)	10.00			
7-6	-69 / 0	0.0	0.0 0.01 (1)	7.81			
11-10	0 / 16	-17.5	-17.5 0.03 (1)	10.00			
10-9	0 / 12	-17.5	-17.5 0.01 (4)	10.00			
9-8	0 / 8	-17.5	-17.5 0.02 (4)	10.00			
8-7	0 / 5	-17.5	-17.5 0.02 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

CSI: TC=0.10 (1-2:1), BC=0.03 (10-11:1), WB=0.03 (5-8:1), SSI=0.08 (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.

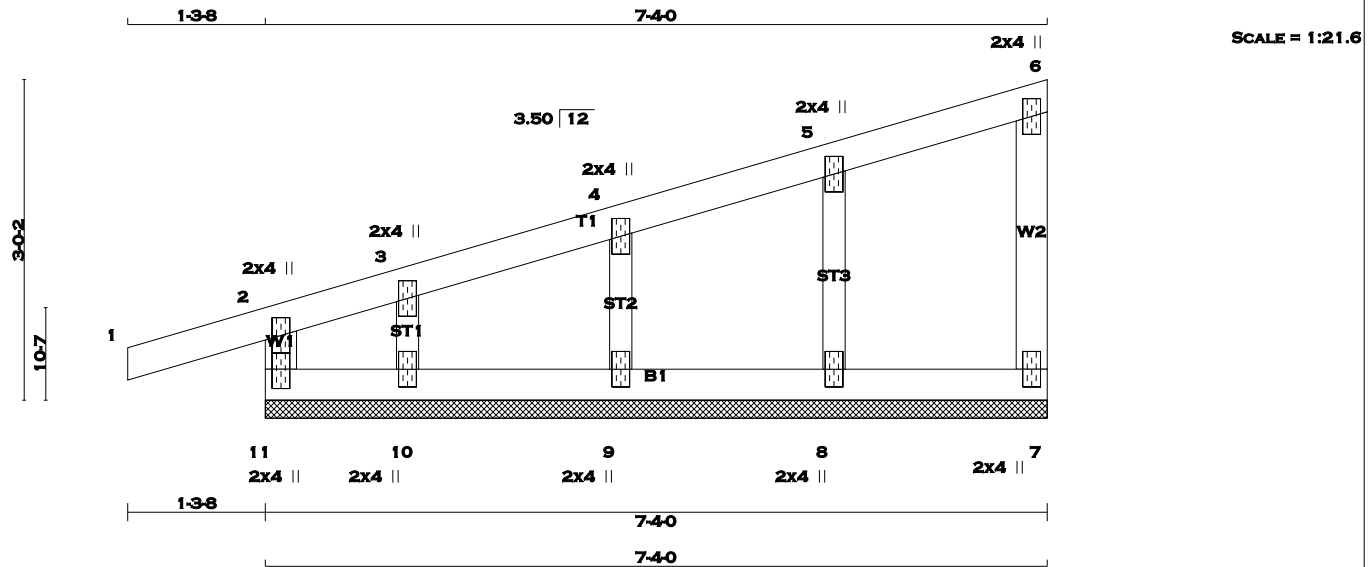
JSI GRIP= 0.11 (2) (INPUT = 0.90)
JSI METAL= 0.04 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 25 = 50 lb [M]

LUMBER					DESCR.	
N. L. G. A. RULES	CHORDS	SIZE	LUMBER			
11 - 2	2x4	DRY	No.2		SPF	
1 - 6	2x4	DRY	No.2		SPF	
7 - 6	2x4	DRY	No.2		SPF	
11 - 7	2x4	DRY	No.2		SPF	
ALL WEBS 2x3					SPF	
ALL GABLE WEBS 2x3					SPF	
DRY: SEASONED LUMBER.						
GABLE STUDS SPACED AT 2-0-0 OC.						

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3, 4, 5						
3	TMW+w	MT20	2.0	4.0		
6	TMV+p	MT20	2.0	4.0		
7	BMV1+p	MT20	2.0	4.0		
8, 9, 10						
8	BMW1+w	MT20	2.0	4.0		
11	BMV1+p	MT20	2.0	4.0	2.25	1.00

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

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

BEARINGS
THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)
BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRAC LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
11-2	-192 / 0	0.0	0.0 0.03 (1)	7.81	8-5	-164 / 0	0.03 (1)
1-2	0 / 14	-77.3	-77.3 0.10 (1)	10.00	9-4	-162 / 0	0.02 (1)
2-3	-27 / 0	-77.3	-77.3 0.07 (1)	6.25	10-3	-84 / 0	0.01 (1)
3-4	-11 / 0	-77.3	-77.3 0.04 (1)	6.25			
4-5	-9 / 0	-77.3	-77.3 0.04 (1)	10.00			
5-6	-8 / 0	-77.3	-77.3 0.04 (1)	10.00			
7-6	-69 / 0	0.0	0.0 0.02 (1)	7.81			
11-10	0 / 16	-17.5	-17.5 0.03 (1)	10.00			
10-9	0 / 13	-17.5	-17.5 0.01 (4)	10.00			
9-8	0 / 8	-17.5	-17.5 0.02 (4)	10.00			
8-7	0 / 5	-17.5	-17.5 0.02 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

CSI: TC=0.10 (1-2:1), BC=0.03 (10-11:1), WB=0.03 (5-8:1), SSI=0.08 (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.

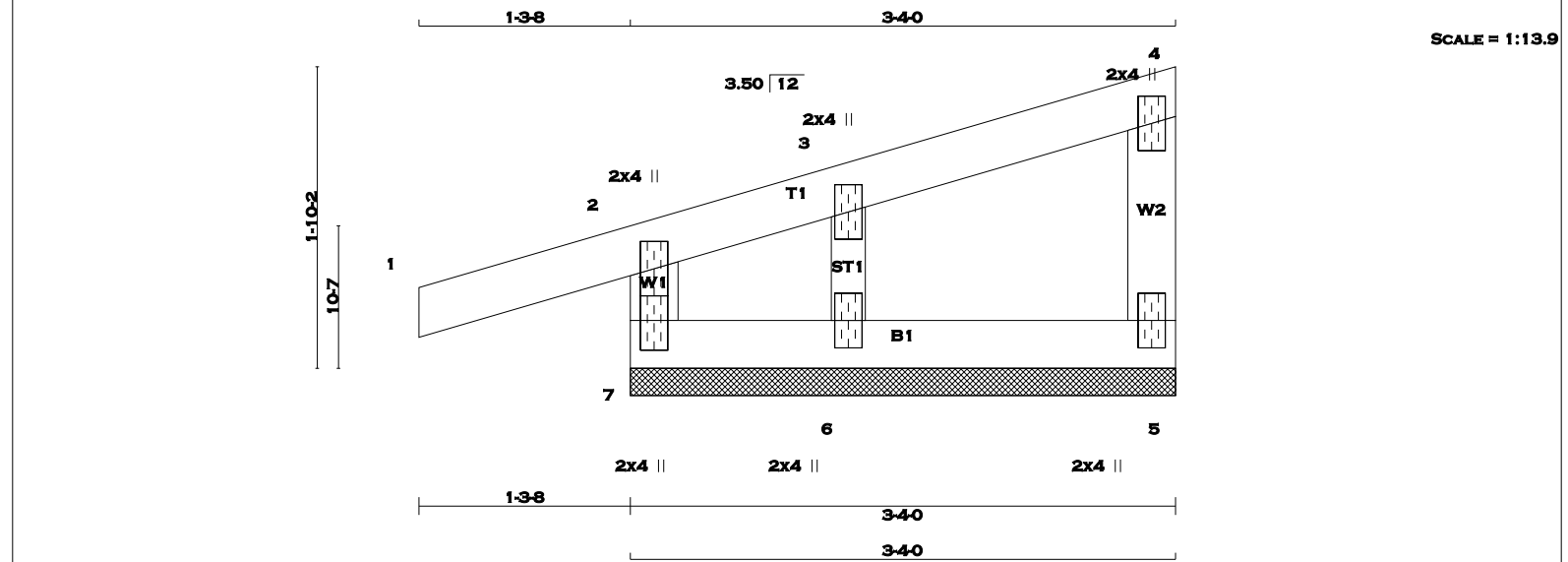
JSI GRIP= 0.10 (2) (INPUT = 0.90)
JSI METAL= 0.04 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 12 lb [M]

N. L. G. A. RULES					BUILDING DESIGNER					DESIGN CRITERIA				
CHORDS		SIZE	LUMBER	DESCR.	BEARINGS					SPECIFIED LOADS:				
7 - 2	2x4	DRY	No.2	SPF	THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.					TOP CH. LL =	23.3	PSF		
1 - 4	2x4	DRY	No.2	SPF	THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.					DL =	3.0	PSF		
5 - 4	2x4	DRY	No.2	SPF						BOT CH. LL =	0.0	PSF		
7 - 5	2x4	DRY	No.2	SPF						DL =	7.0	PSF		
										TOTAL LOAD =	33.3	PSF		
ALL WEBS		2x3	DRY	No.2	SPF	<u>PROVIDE ANCHORAGE AT BEARING JOINT 6 FOR 150 LBS. FACTORED UPLIFT BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S).</u>					<u>SPACING = 24.0 IN. C/C</u>			
ALL GABLE WEBS		2x3	DRY	No.2	SPF	<u>BRACING</u>					THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF			
DRY: SEASONED LUMBER.					TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.									
GABLE STUDS SPACED AT 2-0-0 OC.														

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

LOADING										DESIGN ASSUMPTIONS									
TOTAL LOAD CASES: (5)										OVERHANG NOT TO BE ALTERED OR CUT OFF.									
CHORDS										(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									
MEMB. MAX. FACTORED FORCE (LBS)										CSI: TC=0.10 (1-2:1), BC=0.03 (6-7:1), WB=0.01 (3-6:1), SSI=0.08 (1-2:1)									
VERT. LOAD LC1 MAX. (PLF)										DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10									
FROM TO										COMPANION LIVE LOAD FACTOR = 0.50									
LENGTH FR-TO										TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .									
FR-TO										NAIL VALUES									
7-2										PLATE GRIP(DRY) SHEAR SECTION									
1-2										(PSI) (PLI) (PLI)									
2-3										MAX MIN MAX MIN MAX MIN									
3-4										MT20 618 354 1667 822 2284 1656									
5-4										PLATE PLACEMENT TOL. = 0.250 inches									
7-6										PLATE ROTATION TOL. = 5.0 Deg.									
6-5										JSI GRIP= 0.10 (2) (INPUT = 0.90)									
										JSI METAL= 0.04 (2) (INPUT = 1.00)									

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

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GABLE STUDS SPACED AT 2-0-0 OC.

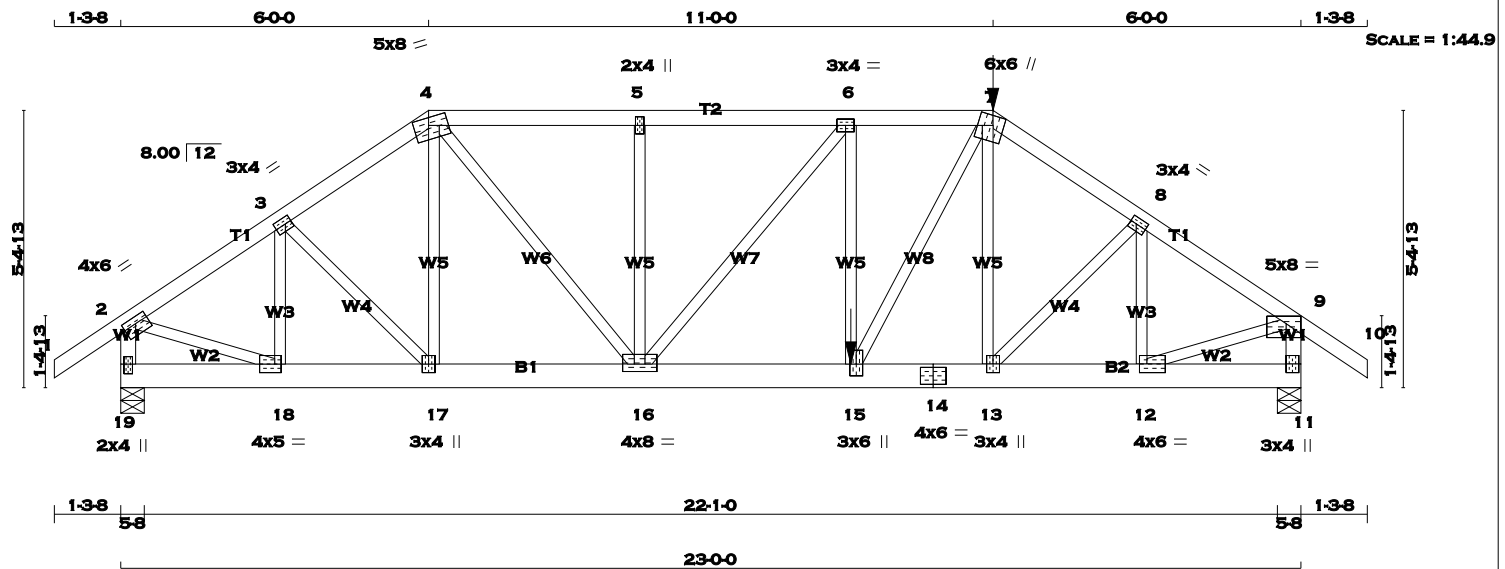
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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	9-4	0 / 375	0.08 (1)		
2-3	0 / 18	-77.3	-77.3 0.16 (1)	10.00	9-5	-156 / 5	0.07 (1)		
3-4	-550 / 0	-77.3	-77.3 0.13 (1)	6.25	3-9	-156 / 5	0.07 (1)		
4-5	-550 / 0	-77.3	-77.3 0.13 (1)	6.25	10-3	-768 / 0	0.32 (1)		
5-6	0 / 18	-77.3	-77.3 0.16 (1)	10.00	5-8	-768 / 0	0.32 (1)		
6-7	0 / 29	-77.3	-77.3 0.10 (1)	10.00					
10-2	-217 / 0	0.0	0.0 0.02 (1)	7.81					
8-6	-217 / 0	0.0	0.0 0.02 (1)	7.81					
10-9	0 / 554	-17.5	-17.5 0.30 (4)	10.00					
9-8	0 / 554	-17.5	-17.5 0.30 (4)	10.00					

JSI GRIP= 0.85 (8) (INPUT = 0.90)
JSI METAL= 0.22 (5) (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 - 7	2x4	DRY	No.2	SPF
7 - 10	2x4	DRY	No.2	SPF
19 - 2	2x4	DRY	No.2	SPF
11 - 9	2x4	DRY	No.2	SPF
19 - 14	2x6	DRY	No.2	SPF
14 - 11	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	6.0	1.50	3.00
3	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TTWW-m	MT20	5.0	8.0	1.75	3.50
5	TMW-w	MT20	2.0	4.0		
6	TMVW-t	MT20	3.0	4.0		
7	TTWW+m	MT20	6.0	6.0	Edge	2.50
8	TMVW-t	MT20	3.0	4.0	1.50	1.50
9	TMVW-p	MT20	5.0	8.0	1.75	3.50
11	BMV1+p	MT20	3.0	4.0	2.00	
12	BMVW-t	MT20	4.0	6.0	2.00	1.75
13	BMVW-t	MT20	3.0	4.0		
14	BS-t	MT20	4.0	6.0		
15	BMVW+t	MT20	3.0	6.0	2.75	1.50
16	BMVWVW-t	MT20	4.0	8.0	1.75	4.00
17	BMVW+t	MT20	3.0	4.0		
18	BMVW-t	MT20	4.0	5.0	2.00	1.50
19	BMV1+p	MT20	2.0	4.0	2.25	1.00

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) 348.1 lbs FACTORED DOWN AT 17-0-0 ON TOP CHORD, AND 1117.1 lbs FACTORED DOWN AT 14-2-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
19		1801	0	1801	0	0	5-8	5-8	
11		2384	0	2384	0	0	5-8	5-8	
UNFACTORED REACTIONS									
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
19		1260	900 / 0	0 / 0	0 / 0	0 / 0	361 / 0	0 / 0	
11		1673	1171 / 0	0 / 0	0 / 0	0 / 0	502 / 0	0 / 0	

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 19, 11									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.83 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)	LC1 (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)		
FR-TO		FROM TO			LENGTH FR-TO				
1-2		0 / 29	-77.3	-77.3 0.11 (1)	10.00	18-3	-504 / 0	0.10 (1)	
2-3		-1874 / 0	-77.3	-77.3 0.16 (1)	4.74	3-17	0 / 184	0.05 (1)	
3-4		-2059 / 0	-77.3	-77.3 0.17 (1)	4.55	17-4	-23 / 39	0.01 (4)	
4-5		-2467 / 0	-77.3	-77.3 0.29 (1)	4.09	4-16	0 / 1213	0.30 (1)	
5-6		-2467 / 0	-77.3	-77.3 0.29 (1)	4.09	16-5	-346 / 0	0.15 (1)	
6-7		-2888 / 0	-145.8	-145.8 0.26 (1)	3.83	16-6	-664 / 0	0.50 (1)	
7-8		-2839 / 0	-77.3	-77.3 0.21 (1)	3.92	15-6	0 / 141	0.04 (4)	
8-9		-2549 / 0	-77.3	-77.3 0.19 (1)	4.14	15-7	0 / 1121	0.28 (1)	
9-10		0 / 29	-77.3	-77.3 0.11 (1)	10.00	13-7	-26 / 88	0.03 (4)	
19-2		-1754 / 0	0.0	0.0 0.20 (1)	6.25	13-8	0 / 308	0.08 (1)	
11-9		-2310 / 0	0.0	0.0 0.26 (1)	5.55	12-8	-650 / 0	0.14 (1)	
						2-18	0 / 1648	0.41 (1)	
						12-9	0 / 2238	0.55 (1)	
19-18		0 / 0	-17.5	-17.5 0.05 (1)	10.00				
18-17		0 / 1570	-17.5	-17.5 0.25 (1)	10.00				
17-16		0 / 1698	-17.5	-17.5 0.25 (1)	10.00				
16-15		0 / 2888	-17.5	-17.5 0.44 (1)	10.00				
15-14		0 / 2346	-33.0	-33.0 0.37 (1)	10.00				
14-13		0 / 2346	-33.0	-33.0 0.37 (1)	10.00				
13-12		0 / 2131	-33.0	-33.0 0.33 (1)	10.00				
12-11		0 / 0	-33.0	-33.0 0.06 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)							
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
7	17-0-0	-348	-348	---	FRONT	VERT	TOTAL
15	14-2-12	-1117	-1117	---	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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

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 8-9-4 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 (0.77")

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

ALLOWABLE DEFL.(TL)= L/360 (0.77")

CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.29 (5-6:1), BC=0.44 (15-16:1), WB=0.55 (9-12:1), SSI=0.20 (6-7:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

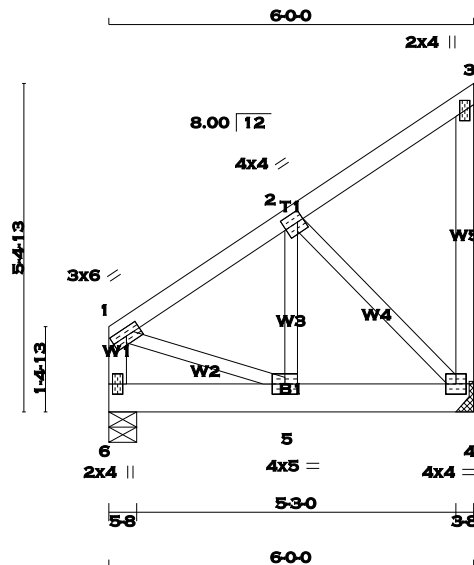
PLATE ROTATION TOL. = 0.250 degrees

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CONTINUED ON PAGE 2

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



SCALE = 1:37.9

TOTAL WEIGHT = 33 lb [M]

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
1 - 3	2x4	DRY	No.2		SPF
4 - 3	2x4	DRY	No.2		SPF
6 - 1	2x4	DRY	No.2		SPF
6 - 4	2x6	DRY	No.2		SPF
ALL WEBS EXCEPT	2x3	DRY	No.2		SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
1	TMWW-t	MT20	3.0	6.0	
2	TMWW-t	MT20	4.0	4.0	2.00 1.25
3	TMV+p	MT20	2.0	4.0	
4	BMVW1-t	MT20	4.0	4.0	
5	BMWW-t	MT20	4.0	5.0	
6	BMV1+p	MT20	2.0	4.0	

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG DOWN	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
4	1117	0	1117	0	0	HANGER BY OTHERS
6	1117	0	1117	0	0	MIN. SEAT SIZE: 3-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
4	784	549 / 0	0 / 0	0 / 0	0 / 0	236 / 0	0 / 0
6	784	549 / 0	0 / 0	0 / 0	0 / 0	236 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS			WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX. CSI (LC)
FR-TO		FROM TO	FR-TO		
1-2	-781 / 0	-77.3 -77.3 0.12 (1)	5-2	0 / 819	0.20 (1)
2-3	-14 / 0	-77.3 -77.3 0.11 (1)	2-4	-934 / 0	0.27 (1)
4-3	-91 / 0	0.0 0.0 0.04 (1)	1-5	0 / 697	0.17 (1)
6-1	-751 / 0	0.0 0.0 0.08 (1)			
6-5	0 / 0	-295.1 -295.1 0.17 (1)			
5-4	0 / 661	-295.1 -295.1 0.26 (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

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 14-2-0
END DISTANCE = 6-0-0
END SPAN CARRIED = 14-2-0
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

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

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

CSI: TC=0.12 (1-2:1) , BC=0.26 (4-5:1) , WB=0.27 (2-4:1) , SSI=0.34 (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	(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.

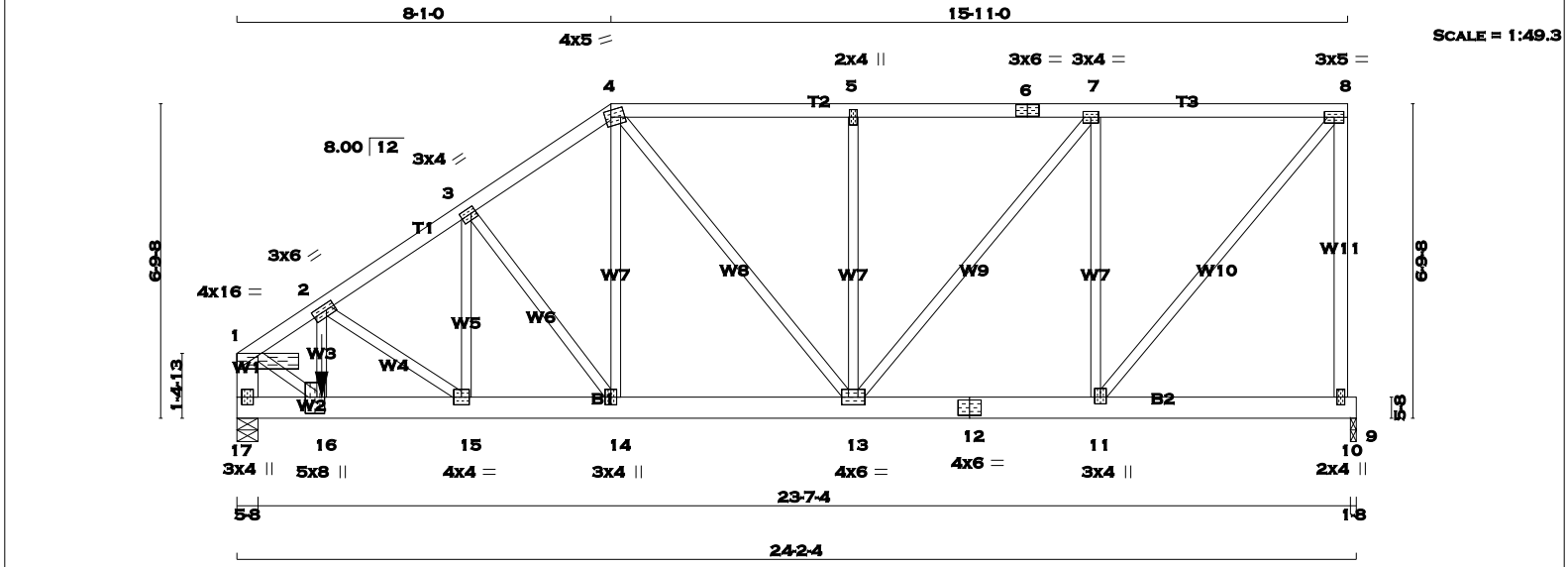
JSI GRIP= 0.85 (2) (INPUT = 0.90)
JSI METAL= 0.25 (4) (INPUT = 1.00)



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TOTAL WEIGHT = 3 X 128 = 384 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
10 - 8	2x4	DRY	No.2
17 - 1	2x6	DRY	No.2
17 - 12	2x6	DRY	No.2
12 - 9	2x6	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DESIGN CONSISTS OF **3** 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
17-1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
17-12	4	SIDE(1501.3)
12-9	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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
1	TMWW-p	MT20	4.0	16.0	0.50 Edge
2	TMWW-t	MT20	3.0	6.0	1.50 2.25

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
17	6807	0	6807	0	5-8
9	1568	0	1568	0	1-8

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN.	COMPONENT	REACTIONS			
17	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
17	4778	3342 / 0	0 / 0	0 / 0	0 / 0	1435 / 0	0 / 0
9	1100	768 / 0	0 / 0	0 / 0	0 / 0	332 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 17, 9

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.73 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	
FR-TO		FROM TO		FR-TO			
1-2	-6031 / 0	-77.3 -77.3	0.07 (1)	4.73	16-2	0 / 2610	0.20 (1)
2-3	-3608 / 0	-77.3 -77.3	0.06 (1)	5.79	2-15	-2432 / 0	0.20 (1)
3-4	-2474 / 0	-77.3 -77.3	0.05 (1)	6.25	15-3	0 / 1638	0.12 (1)
4-5	-1835 / 0	-77.3 -77.3	0.10 (1)	6.25	3-14	-1634 / 0	0.26 (1)
5-6	-1836 / 0	-77.3 -77.3	0.11 (1)	6.25	14-4	0 / 1387	0.10 (1)
6-7	-1836 / 0	-77.3 -77.3	0.11 (1)	6.25	4-13	-361 / 0	0.17 (1)
7-8	-1205 / 0	-77.3 -77.3	0.10 (1)	6.25	13-5	-434 / 0	0.10 (1)
10-8	-1591 / 0	0.0 0.0	0.48 (1)	7.81	13-7	0 / 997	0.07 (1)
17-1	-6157 / 0	0.0 0.0	0.13 (1)	7.06	11-7	-1229 / 0	0.30 (1)
					11-8	0 / 1862	0.14 (1)
17-16	0 / 0	-406.8 -406.8	0.12 (1)	10.00	1-16	0 / 5697	0.43 (1)
16-15	0 / 5005	-17.5 -17.5	0.31 (1)	10.00			
15-14	0 / 3022	-17.5 -17.5	0.13 (1)	10.00			
14-13	0 / 2064	-17.5 -17.5	0.09 (1)	10.00			
13-12	0 / 1205	-17.5 -17.5	0.07 (1)	10.00			
12-11	0 / 1205	-17.5 -17.5	0.07 (1)	10.00			
11-10	0 / 0	-17.5 -17.5	0.07 (1)	10.00			
10-9	0 / 0	-17.5 -17.5	0.07 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)					
JT	LOC.	LC1	MAX-	MAX+	FACE DIR.
16	1-10-0	-5382	-5382	---	FRONT VERT

DESIGN CRITERIA

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

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 18-10-8
END DISTANCE = 1-10-0
END SPAN CARRIED = 18-10-8
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 (0.81")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.81")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.48 (8-10:1), BC=0.31 (15-16:1), WB=0.43 (1-16:1), SSI=0.32 (9-10:1)

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

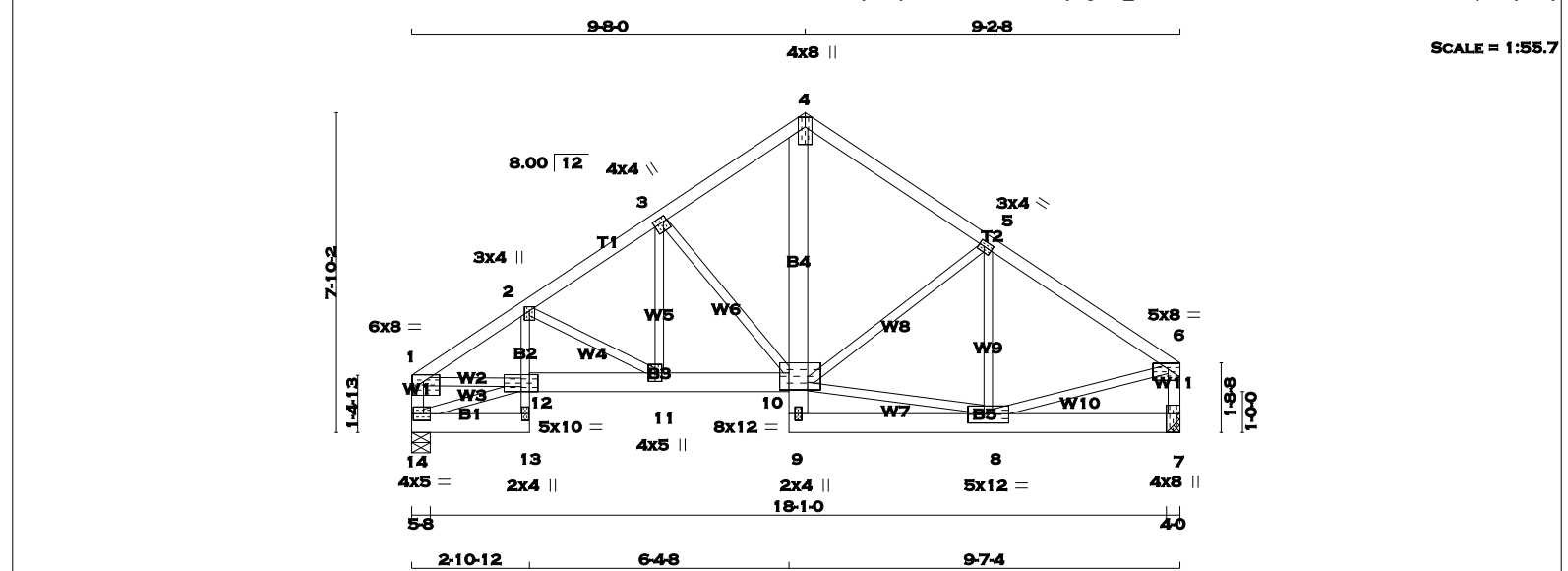
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.8 (IN) PU = 20
JSI METAL= 0.43 (IN) IN = 1.0

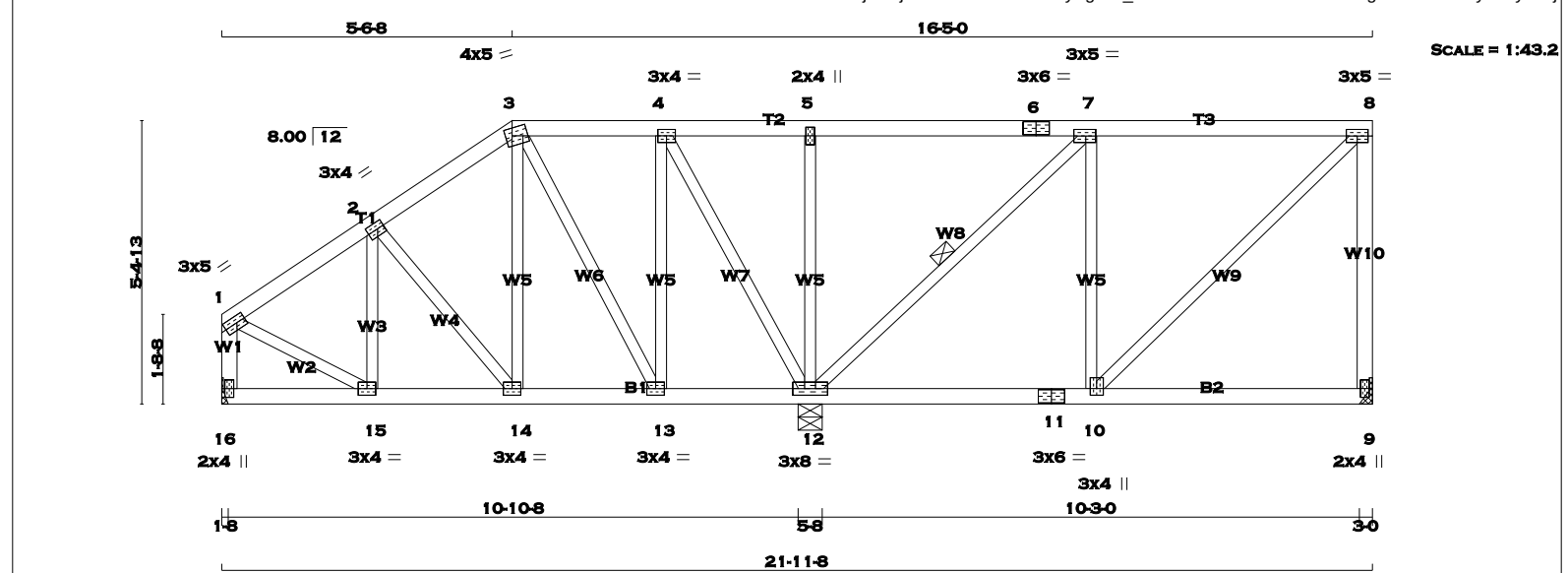


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TOTAL WEIGHT = 2 X 106 = 211 lb										[M]				
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. SPF					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS					DESIGN CRITERIA				
1 - 4 2x4 DRY No.2 4 - 6 2x4 DRY No.2 14- 1 2x4 DRY No.2 7 - 6 2x4 DRY No.2 14- 13 2x6 DRY No.2 13- 2 2x3 DRY No.2 12- 10 2x6 DRY No.2 9 - 4 2x6 DRY No.2 9 - 7 2x6 DRY No.2					FACTORED GROSS REACTION JT VERT HORZ 7 5382 0 14 5382 0 MAXIMUM FACTORED GROSS REACTION DOWN HORZ UPLIFT 5382 0 0 INPUT BRG IN-SX HANGER BY OTHERS MIN. SEAT SIZE: 4-0 5-8 5-8					SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF				
ALL WEBS 2x3 DRY No.2 EXCEPT					UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 7 3777 2642/0 0/0 0/0 0/0 1135/0 0/0 14 3777 2642/0 0/0 0/0 0/0 1135/0 0/0					SPACING = 24.0 IN./C GIRDER TYPE: CStdGirder START DISTANCE = 0-0 START SPAN CARRIED = 22-2-2 END DISTANCE = 18-10-8 END SPAN CARRIED = 22-2-2 END WALL WIDTH = 1-8 APPLIED TO FRONT SIDE OF BOTTOM CHORD. - ADDT'L LOADS BASED ON 55 % OF GSL.				
DRY: SEASONED LUMBER.					BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 14					THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010				
DESIGN CONSISTS OF <u>2</u> TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:					BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.22 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.					THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011				
CHORDS #ROWS SURFACE SPACING (IN) LOAD(PLF)					ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.					THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010				
TOP CHORDS : (0.122"x3") SPIRAL NAILS					LOADING TOTAL LOAD CASES: (4)					ALLOWABLE DEFL.(LL)= L/360 (0.63") CALCULATED VERT. DEFL.(LL)= L/ 999 (0.10") ALLOWABLE DEFL.(TL)= L/360 (0.63") CALCULATED VERT. DEFL.(TL)= L/ 999 (0.19")				
1-4 1 12 TOP 4-6 1 12 TOP 14- 1 1 12 TOP 7-6 1 12 TOP					CHORDS MEMB. MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) MAX. FACTORED VERT. LOAD (LC1) MAX. FACTORED VERT. LOAD (LC2) MAX. FACTORED VERT. LOAD (LC3) MAX. FACTORED VERT. LOAD (LC4)					WEBS MEMB. MAX. FACTORED FORCE (LBS) MAX. FACTORED VERT. LOAD (LC1) MAX. FACTORED VERT. LOAD (LC2) MAX. FACTORED VERT. LOAD (LC3) MAX. FACTORED VERT. LOAD (LC4)				
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS					FR-TO FROM TO LENGTH FR-TO					FR-TO FROM TO LENGTH FR-TO				
14- 13 2 9 SIDE(237.7)					1-2 -8188 / 0 -77.3 -77.3 0.32 (1) 3.22 2-11 -1433 / 0 0.19 (1)					1-2 -8188 / 0 -77.3 -77.3 0.32 (1) 3.22 2-11 -1433 / 0 0.19 (1)				
12- 10 2 9 SIDE(237.7)					2-3 -6708 / 0 -77.3 -77.3 0.25 (1) 3.61 11-3 0 / 2616 0.32 (1)					2-3 -6708 / 0 -77.3 -77.3 0.25 (1) 3.61 11-3 0 / 2616 0.32 (1)				
4-9 2 12 TOP					3-4 -4832 / 0 -77.3 -77.3 0.16 (1) 4.28 3-10 -2472 / 0 0.56 (1)					3-4 -4832 / 0 -77.3 -77.3 0.16 (1) 4.28 3-10 -2472 / 0 0.56 (1)				
9-7 2 9 SIDE(237.7)					4-5 -4613 / 0 -77.3 -77.3 0.22 (1) 4.31 8-5 0 / 612 0.08 (1)					4-5 -4613 / 0 -77.3 -77.3 0.22 (1) 4.31 8-5 0 / 612 0.08 (1)				
13- 2 1 12 TOP					5-6 -5479 / 0 -77.3 -77.3 0.28 (1) 3.97 1-12 0 / 6801 0.84 (1)					5-6 -5479 / 0 -77.3 -77.3 0.28 (1) 3.97 1-12 0 / 6801 0.84 (1)				
WEBS : (0.122"x3") SPIRAL NAILS					14-1 -4661 / 0 0.0 0.0 0.26 (1) 5.53 8-6 0 / 4762 0.59 (1)					14-1 -4661 / 0 0.0 0.0 0.26 (1) 5.53 8-6 0 / 4762 0.59 (1)				
2x3 1 6					7-6 -4524 / 0 0.0 0.0 0.26 (1) 5.61 14-12 -99 / 0 0.01 (1)					7-6 -4524 / 0 0.0 0.0 0.26 (1) 5.61 14-12 -99 / 0 0.01 (1)				
NAILS TO BE DRIVEN FROM ONE SIDE ONLY.					10-5 -897 / 0 0.26 (1)					10-5 -897 / 0 0.26 (1)				
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.					10-8 0 / 4255 0.53 (1)					10-8 0 / 4255 0.53 (1)				
SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERRING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.					14-13 0 / 93 -493.0 -493.0 0.18 (1) 10.00					14-13 0 / 93 -493.0 -493.0 0.18 (1) 10.00				
					13-12 0 / 688 0.0 0.0 0.22 (1) 10.00					13-12 0 / 688 0.0 0.0 0.22 (1) 10.00				
					12-2 0 / 1341 0.0 0.0 0.30 (1) 10.00					12-2 0 / 1341 0.0 0.0 0.30 (1) 10.00				
					12-11 0 / 6851 -493.0 -493.0 0.62 (1) 10.00					12-11 0 / 6851 -493.0 -493.0 0.62 (1) 10.00				
					11-10 0 / 5603 -493.0 -493.0 0.56 (1) 10.00					11-10 0 / 5603 -493.0 -493.0 0.56 (1) 10.00				
					9-10 0 / 973 0.0 0.0 0.20 (1) 10.00					9-10 0 / 973 0.0 0.0 0.20 (1) 10.00				
					10-4 0 / 4969 0.0 0.0 0.46 (1) 10.00					10-4 0 / 4969 0.0 0.0 0.46 (1) 10.00				
					9-8 0 / 376 -493.0 -493.0 0.44 (1) 10.00					9-8 0 / 376 -493.0 -493.0 0.44 (1) 10.00				
					8-7 0 / 0 -493.0 -493.0 0.41 (1) 10.00					8-7 0 / 0 -493.0 -493.0 0.41 (1) 10.00				
PLATES (table is in inches)														
JT TYPE PLATES W LEN Y X														
1 TMVW-p MT20 6.0 8.0 Edge 3.25														
2 TMVW+p MT20 3.0 4.0 1.25 1.50														



TOTAL WEIGHT = 102 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 3	2x4	No.2	SPF	
3 - 6	2x4	No.2	SPF	
6 - 8	2x4	No.2	SPF	
9 - 8	2x4	No.2	SPF	
16 - 1	2x4	No.2	SPF	
16 - 11	2x4	No.2	SPF	
11 - 9	2x4	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	5.0	1.50	2.00
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TTWW-m	MT20	4.0	5.0	1.75	1.50
4	TMVW-t	MT20	3.0	4.0		
5	TMVW-w	MT20	2.0	4.0		
6	TS-t	MT20	3.0	6.0		
7	TMVW-t	MT20	3.0	5.0	1.50	2.25
8	TMVW-t	MT20	3.0	5.0		
9	BMV1+p	MT20	2.0	4.0		
10	BMVW-t	MT20	3.0	4.0	1.50	1.50
11	BS-t	MT20	3.0	6.0		
12	BMVW-t	MT20	3.0	8.0		
13, 14, 15						
13	BMVW-t	MT20	3.0	4.0		
16	BMV1+p	MT20	2.0	4.0		

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



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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	MIN. SEAT SIZE: 3-0	MIN. SEAT SIZE: 1-8
9	839	0	839	0	0			HANGER BY OTHERS	
16	418	0	418	0	0			HANGER BY OTHERS	
12	1727	0	1727	0	0	5-8	5-8		

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	SNOW	LIVE	PERM.LIVE	WIND	DEAD
9	590	405 / 0	0 / 0	0 / 0	0 / 0	0 / 0	185 / 0
16	294	198 / 0	0 / 0	0 / 0	0 / 0	0 / 0	96 / 0
12	1209	861 / 0	0 / 0	0 / 0	0 / 0	0 / 0	348 / 0

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

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-12. DBS = 14-0-0 . CBF = 82 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

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
1-2	-309 / 0	-77.3 -77.3	0.10 (1)	6.25 15-2	-77 / 18	0.02 (1)	
2-3	-216 / 0	-77.3 -77.3	0.10 (1)	6.25 2-14	-157 / 0	0.05 (1)	
3-4	-37 / 0	-77.3 -77.3	0.10 (1)	6.25 14-3	0 / 174	0.04 (1)	
4-5	0 / 196	-77.3 -77.3	0.37 (1)	10.00 3-13	-275 / 0	0.16 (1)	
5-6	0 / 196	-145.8 -145.8	0.72 (1)	10.00 13-4	0 / 257	0.06 (1)	
6-7	0 / 196	-145.8 -145.8	0.72 (1)	10.00 4-12	-479 / 0	0.28 (1)	
7-8	-485 / 0	-145.8 -145.8	0.71 (1)	6.25 12-5	-525 / 0	0.24 (1)	
9-8	-767 / 0	0.0 0.0	0.40 (1)	7.81 12-7	-940 / 0	0.36 (1)	
16-1	-396 / 0	0.0 0.0	0.05 (1)	7.81 10-7	-264 / 82	0.12 (1)	
				10-8	0 / 669	0.17 (1)	
16-15	0 / 0	-17.5 -17.5	0.03 (4)	10.00 1-15	0 / 298	0.07 (1)	
15-14	0 / 268	-17.5 -17.5	0.06 (1)	10.00			
14-13	0 / 171	-17.5 -17.5	0.05 (1)	10.00			
13-12	0 / 37	-17.5 -17.5	0.15 (4)	10.00			
12-11	0 / 485	-33.0 -33.0	0.30 (4)	10.00			
11-10	0 / 485	-33.0 -33.0	0.30 (4)	10.00			
10-9	0 / 0	-33.0 -33.0	0.26 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

GIRDER TYPE: CPrimeHip
LEFT SETBACK = 5-6-8
RIGHT SETBACK = 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 10-6-0 OF SPAN MEASURED FROM THE RIGHT.

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 (0.36")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.36")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.72 (5-7:1) , BC=0.30 (10-12:4) ,
WB=0.36 (7-12:1) , SSI=0.41 (7-8:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

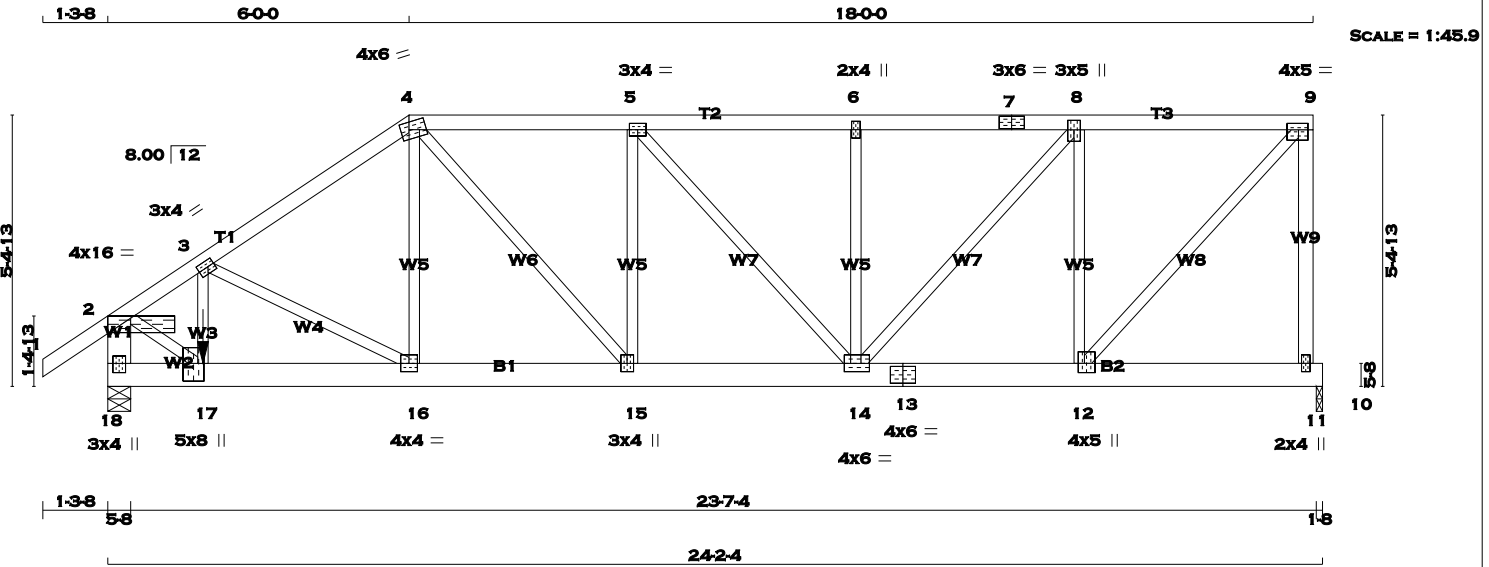
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (7) (INPUT = 0.90)
JSI METAL= 0.25 (6) (INPUT = 1.00)

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LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2
4 - 7	2x4	DRY	No.2
7 - 9	2x4	DRY	No.2
11 - 9	2x4	DRY	No.2
18 - 2	2x6	DRY	No.2
18 - 13	2x6	DRY	No.2
13 - 10	2x6	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-p	MT20	4.0	16.0	Edge 5.50
3	TMVW-t	MT20	3.0	4.0	1.50 1.50
4	TTWW-m	MT20	4.0	6.0	1.75 2.00
5	TMVW-t	MT20	3.0	4.0	
6	TMVW-w	MT20	2.0	4.0	
7	TS-t	MT20	3.0	6.0	
8	TMVW+t	MT20	3.0	5.0	2.25 1.50
9	TMVW-t	MT20	4.0	5.0	1.50 2.25
11	BMV+p	MT20	2.0	4.0	
12	BMVW+t	MT20	4.0	5.0	2.25 1.50
13	BS-t	MT20	4.0	6.0	
14	BMVWVW-t	MT20	4.0	6.0	2.00 1.50
15	BMVW+t	MT20	3.0	4.0	
16	BMVW-t	MT20	4.0	4.0	
17	BMVW+t	MT20	5.0	8.0	4.25 1.50
18	BMV1+p	MT20	3.0	4.0	2.25 1.50

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

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

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 1725.5 lbs FACTORED DOWN AT 1-10-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
GROSS REACTION		DOWN		HORZ		BRG		BRG	
JT	VERT	JT	HORZ	JT	UPLIFT	JT	IN-SX	JT	IN-SX
18	2846	0	2846	0	0	5-8	5-8	5-8	5-8
10	1265	0	1265	0	0	1-8	1-8	1-8	1-8

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
18	1995	1410 / 0	0 / 0	0 / 0	0 / 0	586 / 0	0 / 0
10	888	619 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18, 10

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.09 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		MAX. FACTORED		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	LC1 MAX (PLF)	MEMB.	FORCE (LBS)	MAX (LC)	UNBRAC LENGTH
FR-TO		FROM	TO	FR-TO			
1-2	0 / 29	-77.3	-77.3 0.11 (1)	10.00	17-3	0 / 501	0.12 (1)
2-3	-2579 / 0	-77.3	-77.3 0.20 (1)	4.09	3-16	-716 / 0	0.28 (1)
3-4	-1836 / 0	-77.3	-77.3 0.26 (1)	4.66	16-4	0 / 484	0.12 (1)
4-5	-1748 / 0	-77.3	-77.3 0.30 (1)	4.70	4-15	0 / 334	0.08 (1)
5-6	-1563 / 0	-77.3	-77.3 0.29 (1)	4.93	15-5	-178 / 19	0.07 (1)
6-7	-1563 / 0	-77.3	-77.3 0.30 (1)	4.91	5-14	-279 / 0	0.23 (1)
7-8	-1563 / 0	-77.3	-77.3 0.30 (1)	4.91	14-6	-316 / 0	0.13 (1)
8-9	-1060 / 0	-77.3	-77.3 0.28 (1)	5.74	14-8	0 / 759	0.19 (1)
11-9	-1289 / 0	0.0	0.0 0.62 (1)	7.06	12-8	-971 / 0	0.41 (1)
18-2	-2738 / 0	0.0	0.0 0.20 (1)	6.27	12-9	0 / 1560	0.39 (1)
					2-17	0 / 2426	0.60 (1)
18-17	0 / 0	-17.5	-17.5 0.13 (1)	10.00			
17-16	0 / 2147	-17.5	-17.5 0.41 (1)	10.00			
16-15	0 / 1526	-17.5	-17.5 0.25 (1)	10.00			
15-14	0 / 1748	-17.5	-17.5 0.27 (1)	10.00			
14-13	0 / 1060	-17.5	-17.5 0.20 (1)	10.00			
13-12	0 / 1060	-17.5	-17.5 0.20 (1)	10.00			
12-11	0 / 0	-17.5	-17.5 0.17 (1)	10.00			
11-10	0 / 0	-17.5	-17.5 0.17 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)				FACE	DIR.	TYPE
JT	LOC.	LC1	MAX- MAX+	FRONT	VERT	TOTAL
17	1-10-12	-1726	-1726			

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 6.00/12

*** 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

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 (0.81")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.81")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.62 (9-11:1), BC=0.41 (16-17:1) , WB=0.60 (2-17:1), SSI=0.84 (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)	(PLI)	(PLI)	
MAX MIN	MAX MIN	MAX MIN	
MT20	618	354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

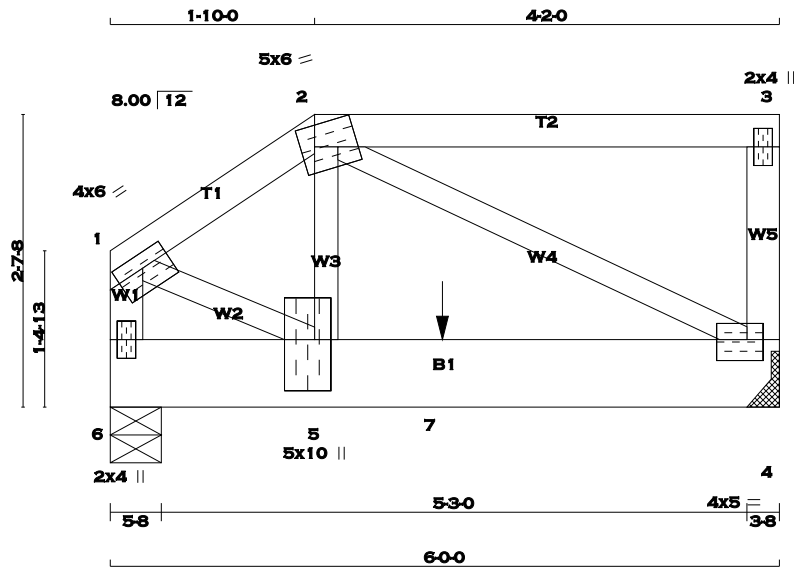
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (3) (INPUT = 0.90)
JSI METAL= 0.56 (17) (INPUT = 1.00)

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SCALE = 1:20.7

TOTAL WEIGHT = 30 lb [M]

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
1 - 2	2x4	DRY	No.2	SPF	
2 - 3	2x4	DRY	No.2	SPF	
4 - 3	2x4	DRY	No.2	SPF	
6 - 1	2x4	DRY	No.2	SPF	
6 - 4	2x8	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	4.0	6.0	1.50	3.00
2	TTWW-m	MT20	5.0	6.0	2.25	1.50
3	TMV+p	MT20	2.0	4.0		
4	BMVW1-t	MT20	4.0	5.0	2.25	1.75
5	BMVW+t	MT20	5.0	10.0	5.50	1.75
6	BMV1+p	MT20	2.0	4.0		

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

HANGERS NOTES

- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 840.7 lbs FACTORED DOWN AT 2-11-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
4	1935	0	1935	0	0	HANGER BY OTHERS	
6	1547	0	1547	0	0	MIN. SEAT SIZE: 3-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
4	1358	950 / 0	0 / 0	0 / 0	0 / 0	408 / 0	0 / 0
6	1086	760 / 0	0 / 0	0 / 0	0 / 0	326 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.10 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
1-2	-1629 / 0	-77.3 -77.3	0.08 (1)	5.10	5-2	0 / 1417	0.35 (1)
2-3	0 / 0	-77.3 -77.3	0.25 (1)	10.00	2-4	-1598 / 0	0.53 (1)
4-3	-161 / 0	0.0 0.0	0.02 (1)	7.81	1-5	0 / 1496	0.37 (1)
6-1	-1626 / 0	0.0 0.0	0.18 (1)	6.45			
6-5	0 / 0	-230.9 -230.9	0.29 (1)	10.00			
5-7	0 / 1419	-230.9 -230.9	0.69 (1)	10.00			
7-4	0 / 1419	-493.0 -493.0	0.69 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
7	2-11-12	-841	-841	---	FRONT	VERT	TOTAL

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 11-5-8
END DISTANCE = 2-11-12
END SPAN CARRIED = 11-5-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

GIRDER TYPE: CStdGirder
START DISTANCE = 2-11-12
START SPAN CARRIED = 22-2-2
END DISTANCE = 6-0-0
END SPAN CARRIED = 22-2-2
END WALL WIDTH = 1-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.25 (2-3:1) , BC=0.69 (4-5:1) , WB=0.53 (2-4:1) , SSI=0.90 (4-5:1)

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

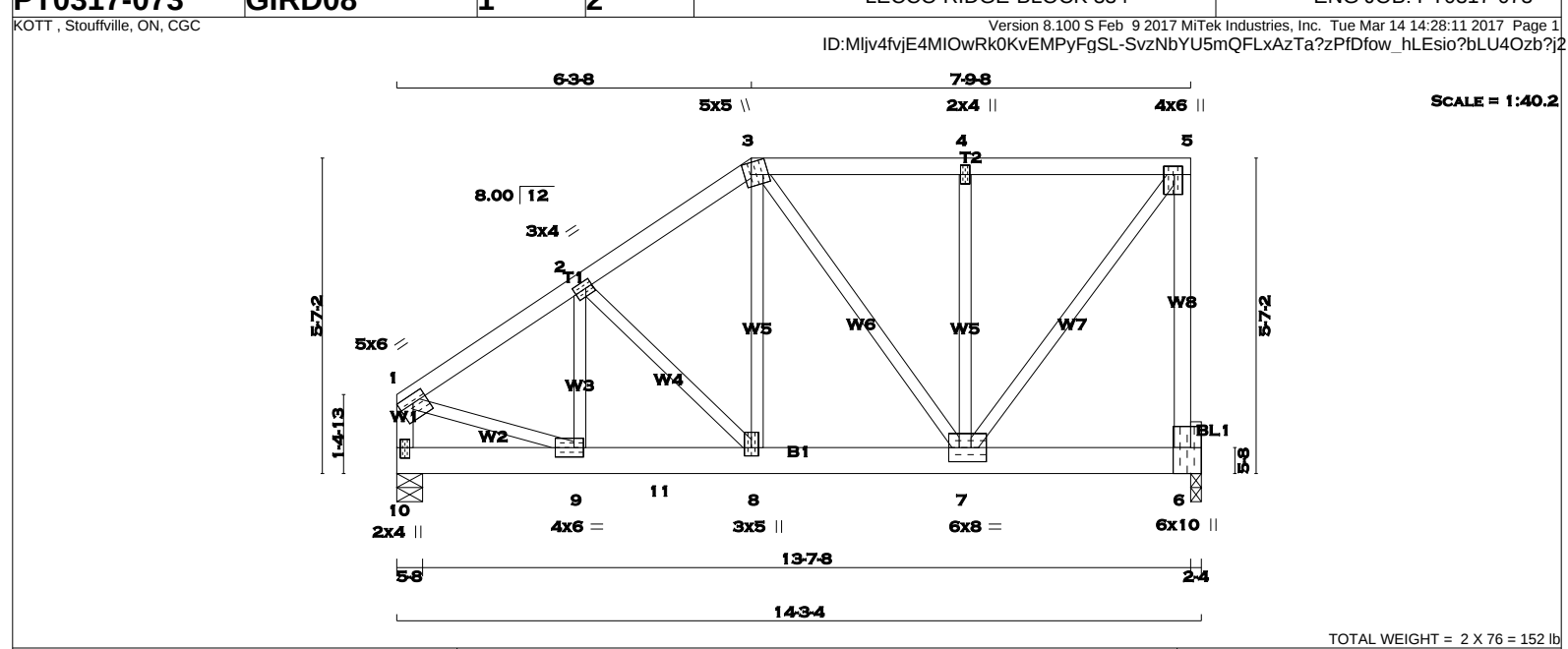
COMPANION LIVE LOAD FACTOR = 0.50

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



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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.



LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

1 - 3

2x4

DRY

No.2

SPF

3 - 5

2x4

DRY

No.2

SPF

6 - 5

2x4

DRY

No.2

SPF

10 - 1

2x4

DRY

No.2

SPF

10 - 6

2x6

DRY

2100F 1.8E

SPF

BEARING BLOCKS

BL1

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

1-3

1

12

TOP

3-5

1

12

TOP

5-6

1

12

TOP

10-1

1

12

TOP

BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS

10-6

2

9

SIDE(301.3)

WEBS : (0.122"x3") SPIRAL NAILS

2x3

1

6

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

1

TMVW-t

MT20

5.0

6.0

1.75

Edge

2

TMWW-t

MT20

3.0

4.0

1.50

1.50

3

TTWW+m

MT20

5.0

5.0

2.50

1.50

4

TMW+w

MT20

2.0

4.0

5

TMVW+p

MT20

4.0

6.0

1.75

1.75

6

BMVK1+p

MT20

6.0

10.0

5.50

Edge

7

BMWWW-t

MT20

6.0

8.0

3.00

2.25

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

6

4284

0

4284

0

0

2-4

2-4

10

4566

0

4566

0

0

5-8

5-8

UNFACTORED REACTIONS

1ST LCASE

MAX/MIN. COMPONENT REACTIONS

JT

COMBINED

SNOW

LIVE

PERM.LIVE

WIND

DEAD

SOIL

6

3006

2104 / 0

0 / 0

0 / 0

0 / 0

902 / 0

0 / 0

10

3204

2242 / 0

0 / 0

0 / 0

0 / 0

963 / 0

0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6, 10

BEARING SIZE FACTOR = 1.08 AT JNT(S) 6 (BASED ON SUPPORT DEPTH = 1-8)

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.48 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS

MAX. FACTORED

FACTORED

VERT. LOAD

LC1

MAX

MAX.

MEMB.

FORCE

MAX.

FACTORED

MEMB.

FORCE

VERT. LOAD

LC1

MAX

MAX.

MEMB.

FORCE

MAX.

FACTORED

FR-TO

FROM

TO

CS1 (LC)

UNBRAC

LENGTH

FR-TO

FROM

TO

CS1 (LC)

1-2

-4370 / 0

-77.3

-77.3

0.14 (1)

4.48

9-2

0 / 906

0.11 (1)

2-3

-3538 / 0

-77.3

-77.3

0.10 (1)

4.92

2-8

-1006 / 0

0.17 (1)

3-4

-2443 / 0

-77.3

-77.3

0.10 (1)

5.67

8-3

0 / 2475

0.31 (1)

4-5

-2443 / 0

-77.3

-77.3

0.10 (1)

5.67

3-7

-915 / 0

0.33 (1)

6-5

-3443 / 0

0.0

0.0

0.91 (1)

6.30

7-4

-347 / 0

0.08 (1)

10-1

-3659 / 0

0.0

0.0

0.20 (1)

6.14

7-5

0 / 4175

0.52 (1)

10-9

0 / 0

-620.2

-620.2

0.13 (1)

10.00

1-9

0 / 3808

0.47 (1)

9-11

0 / 3641

-620.2

-620.2

0.17 (1)

10.00

11-8

0 / 3641

-525.3

-525.3

0.17 (1)

10.00

8-7

0 / 2982

-525.3

-525.3

0.21 (1)

10.00

7-6

-96 / 0

-525.3

-525.3

0.14 (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 6.00/12

GIRDER TYPE: CStdGirder

START DISTANCE = 0-0

START SPAN CARRIED = 27-10-8

END DISTANCE = 4-7-8

END SPAN CARRIED = 27-10-8

END WALL WIDTH = 5-8

APPLIED TO FRONT SIDE OF BOTTOM CHORD.

- ADDT'L LOADS BASED ON 55 % OF GSL.

GIRDER TYPE: CStdGirder

START DISTANCE = 4-7-8

START SPAN CARRIED = 23-10-8

END DISTANCE = 14-3-4

END SPAN CARRIED = 23-10-8

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 (0.46")

CALCULATED VERT. DEFL.(LL) = L/999 (0.04")

ALLOWABLE DEFL.(TL)= L/360 (0.46")

CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.91 (5-6:1) , BC=0.21 (7-8:1) , WB=0.52 (5-7:1) , SSI=0.39 (6-7:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00

COMP=1.00 SHEAR=1.00 TENS= 1.00

COMPANION LIVE LOAD FACTOR = 0.50

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 (7) (INPUT = 0.90)

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

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LICENSED PROFESSIONAL ENGINEER

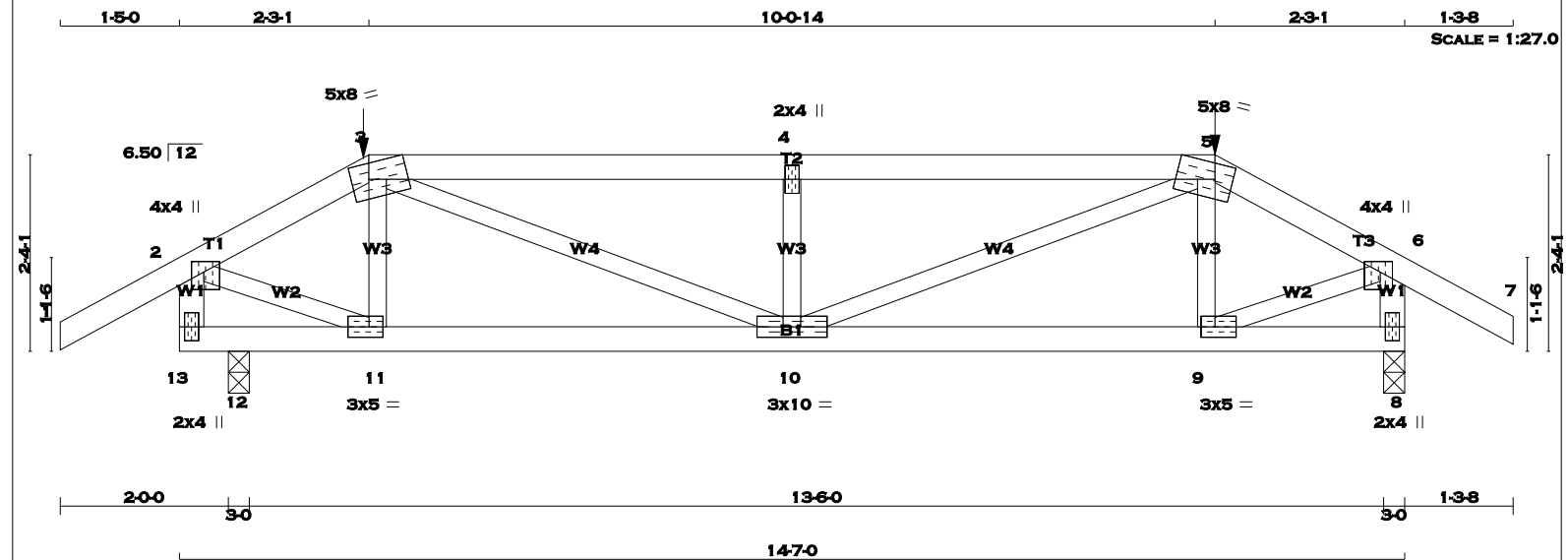
PAUL TREVISAN

100136551

March 14th, 2017

PROVINCE OF ONTARIO

CONTINUED ON PAGE 2



TOTAL WEIGHT = 55 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
5 - 7	2x4	DRY	No.2	SPF
13 - 2	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
13 - 8	2x4	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF
 EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW+p	MT20	4.0	4.0	1.50	1.75
3	TTWW-m	MT20	5.0	8.0	Edge	5.50
4	TMVW+w	MT20	2.0	4.0		
5	TTWW-m	MT20	5.0	8.0	Edge	5.50
6	TMVW+p	MT20	4.0	4.0	1.50	1.75
8	BMV1+p	MT20	2.0	4.0		
9	BMWW-t	MT20	3.0	5.0	1.50	2.00
10	BMWW-t	MT20	3.0	10.0		
11	BMWW-t	MT20	3.0	5.0	1.50	2.00
13	BMV+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) 88.4 lbs FACTORED DOWN AT 12-3-15, AND 88.4 lbs FACTORED DOWN AT 2-3-1 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	UPLIFT	IN-SX
8	1095	0	0	3-0
12	1224	0	0	3-0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX. SNOW	MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
8	766	548 / 0	0 / 0	0 / 0	0 / 0	218 / 0	0 / 0
12	856	614 / 0	0 / 0	0 / 0	0 / 0	242 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 12

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.06 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: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 27	-77.3	-77.3 0.13 (1)	10.00	11-3	-556 / 0	0.09 (1)
2-3	-759 / 0	-77.3	-77.3 0.08 (1)	6.25	3-10	0 / 1358	0.34 (1)
3-4	-1897 / 0	-117.6	-117.6 0.60 (1)	4.06	10-4	-716 / 0	0.12 (1)
4-5	-1897 / 0	-117.6	-117.6 0.60 (1)	4.06	10-5	0 / 978	0.24 (1)
5-6	-1141 / 0	-77.3	-77.3 0.09 (1)	5.83	9-5	-230 / 20	0.04 (1)
6-7	0 / 25	-77.3	-77.3 0.11 (1)	10.00	2-11	0 / 703	0.17 (1)
13-2	-792 / 0	0.0	0.0 0.09 (1)	7.81	9-6	0 / 1058	0.26 (1)
8-6	-1080 / 0	0.0	0.0 0.12 (1)	7.57			
13-12	0 / 0	-26.6	-26.6 0.85 (1)	10.00			
12-11	0 / 0	-26.6	-26.6 0.85 (1)	10.00			
11-10	0 / 638	-26.6	-26.6 0.27 (1)	10.00			
10-9	0 / 990	-26.6	-26.6 0.25 (1)	10.00			
9-8	0 / 0	-26.6	-26.6 0.10 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
3	2-3-1	-88	-88	---	FRONT	VERT	TOTAL
5	12-3-15	-88	-88	---	FRONT	VERT	TOTAL

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

GIRDER TYPE: CPrimeHip
 SIDE SETBACK = 2-3-1
 END SETBACK = 4-6-8
 END WALL WIDTH = 5-8
 CORNER FRAMING TYPE: CONVENTIONAL
 END JACK TYPE: CONVENTIONAL
 APPLIED TO FRONT SIDE
 - ADDTL LOADS BASED ON 55 % OF GSL.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.46")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
 ALLOWABLE DEFL.(TL)= L/360 (0.46")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CANTILEVER DEFLECTION:
 ALLOWABLE DEFL.(LL)= L/120 (0.19")
 CALCULATED VERT. DEFL.(LL) = L/410 (0.02")
 ALLOWABLE DEFL.(TL)= L/120 (0.19")
 CALCULATED VERT. DEFL.(TL) = L/238 (0.04")

CSI: TC=0.60 (4-5-1), BC=0.85 (12-13-1), WB=0.34 (3-10-1), SSI=0.70 (12-13-1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

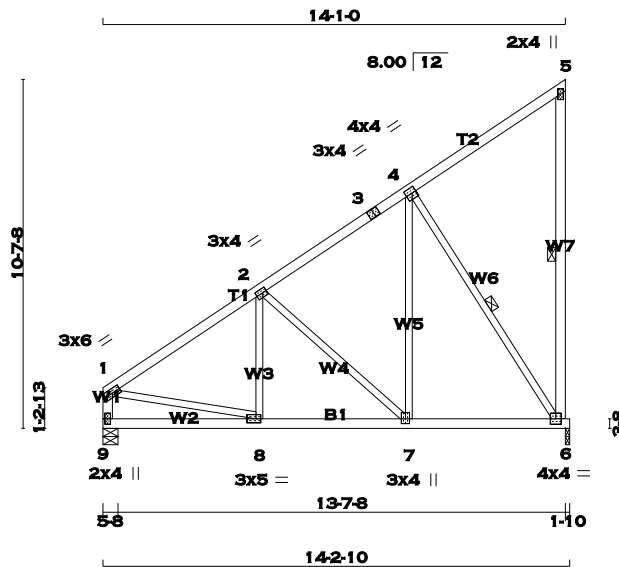
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (5) (INPUT = 0.90)
 JSI METAL= 0.30 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 72 = 143 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
6 - 5	2x4	DRY	No.2	SPF
9 - 1	2x4	DRY	No.2	SPF
9 - 6	2x4	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX
6	1023	0	1023	0	0	1-10	1-10		
9	1023	0	1023	0	0	5-8	5-8		

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
6	718	502 / 0	0 / 0	0 / 0	0 / 0	216 / 0	0 / 0		
9	718	502 / 0	0 / 0	0 / 0	0 / 0	216 / 0	0 / 0		

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6, 9

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.85 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-6. DBS = 20-0-0. CBF = 19 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-6. DBS = 16-0-0. CBF = 89 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: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 CSI (LC)	
FR-TO		FROM TO		FR-TO			
1-2	-1015 / 0	-77.3 -77.3	0.27 (1)	5.85	8-2	0 / 179	0.05 (4)
2-3	-594 / 0	-77.3 -77.3	0.27 (1)	6.25	2-7	-489 / 0	0.33 (1)
3-4	-594 / 0	-77.3 -77.3	0.27 (1)	6.25	7-4	0 / 673	0.17 (1)
4-5	-20 / 0	-77.3 -77.3	0.25 (1)	6.25	4-6	-892 / 0	0.45 (1)
6-5	-149 / 0	0.0 0.0	0.08 (1)	6.25	1-8	0 / 875	0.22 (1)
9-1	-890 / 0	0.0 0.0	0.10 (1)	7.81			
9-8	0 / 0	-67.9 -67.9	0.20 (1)	10.00			
8-7	0 / 860	-67.9 -67.9	0.36 (1)	10.00			
7-6	0 / 496	-67.9 -67.9	0.30 (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

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 4-7-0
END DISTANCE = 14-2-10
END SPAN CARRIED = 4-7-0
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.47")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.27 (2-4:1), BC=0.36 (7-8:1), WB=0.45 (4-6:1), SSI=0.16 (6-7:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

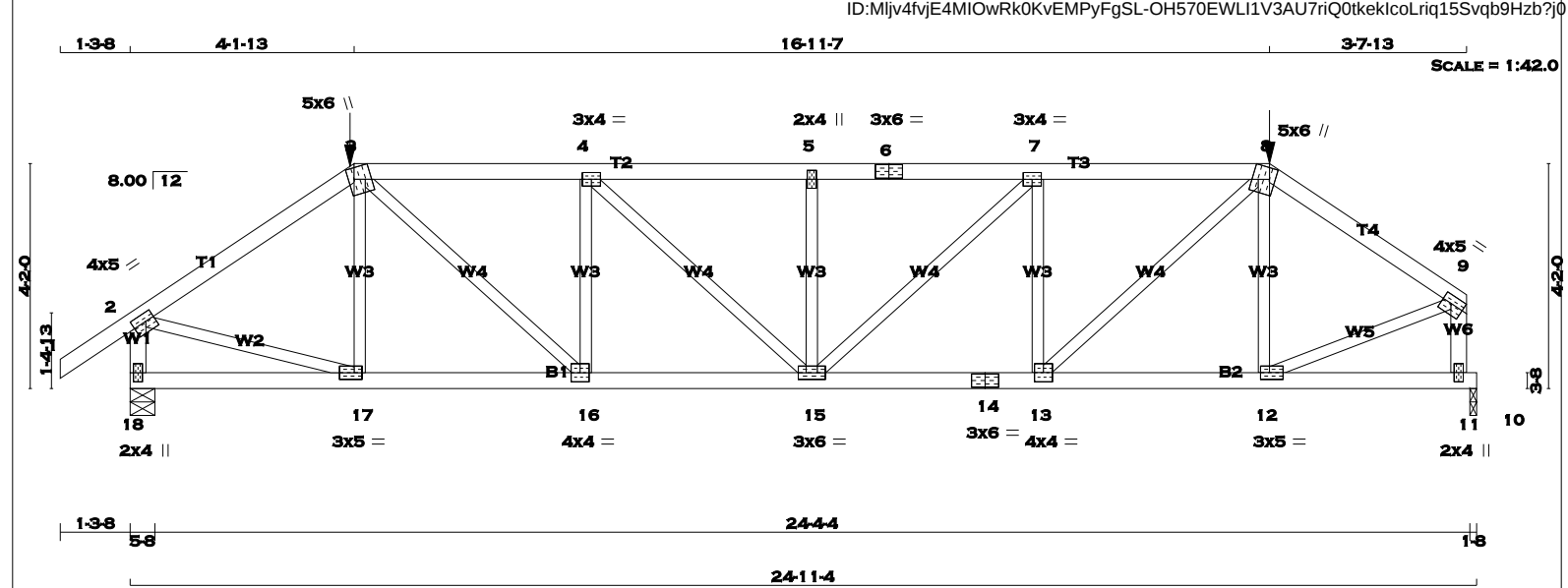
JSI GRIP= 0.88 (8) (INPUT = 0.90)
JSI METAL= 0.28 (1) (INPUT = 1.00)



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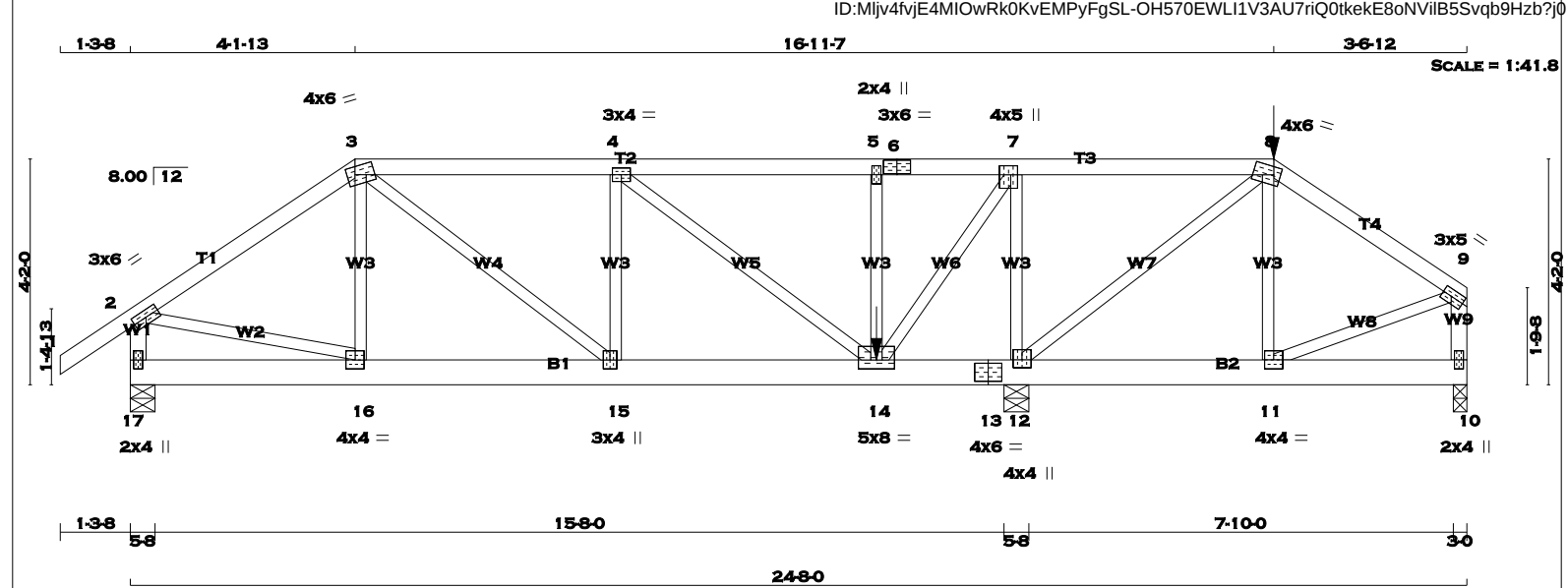


LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. SPF 1 - 3 2x4 DRY No.2 SPF 3 - 6 2x4 DRY No.2 SPF 6 - 8 2x4 DRY No.2 SPF 8 - 9 2x4 DRY No.2 SPF 18 - 2 2x4 DRY No.2 SPF 11 - 9 2x4 DRY No.2 SPF 18 - 14 2x4 DRY No.2 SPF 14 - 10 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER. DESIGN 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 1-3 1 12 SIDE(0.0) 3-6 1 12 SIDE(34.2) 6-8 1 12 SIDE(34.2) 8-9 1 12 SIDE(0.0) 18-2 1 12 TOP 11-9 1 12 TOP BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS 18-14 1 12 SIDE(8.7) 14-10 1 12 SIDE(8.7) 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. PLATES (table is in inches) JT TYPE PLATES W LEN Y X 2 TMVW-t MT20 4.0 5.0 1.75 2.00				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 18 2290 0 2290 0 0 5-8 5-8 10 2175 0 2175 0 0 1-8 1-8 UNFACTORED REACTIONS 1ST LCASE MAX/MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 18 1606 1131 / 0 0 / 0 0 / 0 475 / 0 0 / 0 10 1528 1062 / 0 0 / 0 0 / 0 466 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18, 10 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.63 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS WEBS MEMB. MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) LC1 MAX. UNBRACED LENGTH FR-TO MEMB. MAX. FACTORED FORCE (LBS) MAX. CSI (LC) FR-TO FROM TO 1-2 0 / 29 -77.3 -77.3 0.06 (1) 10.00 17-3 -381 / 20 0.05 (1) 2-3 -2561 / 0 -77.3 -77.3 0.16 (1) 5.51 3-16 0 / 1706 0.21 (1) 3-4 -3385 / 0 -145.8 -145.8 0.25 (1) 4.82 16-4 -1012 / 0 0.14 (1) 4-5 -3732 / 0 -145.8 -145.8 0.26 (1) 4.63 4-15 0 / 472 0.06 (1) 5-6 -3732 / 0 -145.8 -145.8 0.26 (1) 4.63 15-5 -561 / 0 0.08 (1) 6-7 -3732 / 0 -145.8 -145.8 0.26 (1) 4.63 15-7 0 / 570 0.07 (1) 7-8 -3313 / 0 -145.8 -145.8 0.25 (1) 4.86 13-7 -1080 / 0 0.15 (1) 8-9 -2431 / 0 -77.3 -77.3 0.12 (1) 5.66 13-8 0 / 1757 0.22 (1) 18-2 -2233 / 0 0.0 0.0 0.13 (1) 7.47 12-8 -445 / 0 0.06 (1) 11-9 -2256 / 0 0.0 0.0 0.13 (1) 7.45 2-17 0 / 2195 0.27 (1) 12-9 0 / 2158 0.27 (1) 18-17 0 / 0 -33.0 -33.0 0.08 (4) 10.00 17-16 0 / 2117 -33.0 -33.0 0.23 (1) 10.00 16-15 0 / 3386 -33.0 -33.0 0.33 (1) 10.00 15-14 0 / 3313 -33.0 -33.0 0.34 (1) 10.00 14-13 0 / 3313 -33.0 -33.0 0.34 (1) 10.00 13-12 0 / 2007 -33.0 -33.0 0.29 (1) 10.00 12-11 0 / 0 -33.0 -33.0 0.30 (1) 10.00 11-10 0 / 0 -33.0 -33.0 0.30 (1) 10.00 FACTORED CONCENTRATED LOADS (LBS) JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE 3 4-1-13 -241 -241 --- FRONT VERT TOTAL 8 21-1-3 -220 -220 --- FRONT VERT TOTAL				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 GIRDER TYPE: CPrimeHip LEFT SETBACK = 4-1-13 RIGHT SETBACK = 3-9-7 END SETBACK = 6-0-0 END WALL WIDTH = 5-8 CORNER FRAMING TYPE: CONVENTIONAL END JACK TYPE: CONVENTIONAL APPLIED TO FRONT SIDE - ADDTL LOADS BASED ON 55 % OF GSL. THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.83") CALCULATED VERT. DEFL.(LL) = L/999 (0.08") ALLOWABLE DEFL.(TL)= L/360 (0.83") CALCULATED VERT. DEFL.(TL) = L/999 (0.14") CSI: TC=0.26 (5-7:1) , BC=0.34 (13-15:1) , WB=0.27 (2-17:1) , SSI=0.93 (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) (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 (17) (INPUT = 0.90) JSI METAL= 0.46 (14) (INPUT = 1.00)			
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TOTAL WEIGHT = 116 lb [M]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
3 - 6	2x4	DRY	No.2
6 - 8	2x4	DRY	No.2
8 - 9	2x4	DRY	No.2
17 - 2	2x4	DRY	No.2
10 - 9	2x4	DRY	No.2
17 - 13	2x6	DRY	No.2
13 - 10	2x6	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
DRY: SEASONED LUMBER.			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
1	TMVW-t	MT20	3.0	6.0	
3	TTWW-m	MT20	4.0	6.0	1.75 1.75
4	TMVW-t	MT20	3.0	4.0	
5	TMVW-w	MT20	2.0	4.0	
6	TS-t	MT20	3.0	6.0	
7	TMVW-t	MT20	4.0	5.0	2.00 1.50
8	TTWW-m	MT20	4.0	6.0	1.75 1.50
9	TMVW-t	MT20	3.0	5.0	1.50 2.00
10	BMV1+p	MT20	2.0	4.0	
11	BMVW-t	MT20	4.0	4.0	
12	BMVW1+t	MT20	4.0	4.0	1.75 2.00
13	BS-t	MT20	4.0	6.0	
14	BMVWVW-t	MT20	5.0	8.0	2.00 4.00
15	BMVW-t	MT20	3.0	4.0	
16	BMVW-t	MT20	4.0	4.0	
17	BMV1+p	MT20	2.0	4.0	

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

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 206.7 lbs FACTORED DOWN AT 21-1-3 ON TOP CHORD, AND 1084.3 lbs FACTORED DOWN AT 13-9-4 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 GROSS REACTION		MAXIMUM FACTORED GROSS REACTION	
JT	VERT	DOWN	HORZ
17	945	0	0
12	3040	0	0
10	423	0	0

UNFACTORED REACTIONS			
1ST LCASE		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	LIVE	PERM.LIVE
17	661	474 / 0	0 / 0
12	2132	1500 / 0	0 / 0
10	299	197 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 17, 12, 10

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.69 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING			
TOTAL LOAD CASES: (4)			
CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (FT)
FR-TO	0 / 29	-77.3 -77.3 0.11 (1)	10.00 16-3 -89 / 42 0.02 (1)
2-3	-858 / 0	-77.3 -77.3 0.27 (1)	6.21 3-15 0 / 419 0.10 (1)
3-4	-1040 / 0	-77.3 -77.3 0.33 (1)	5.69 15-4 -138 / 36 0.04 (1)
4-5	-653 / 0	-77.3 -77.3 0.32 (1)	6.25 4-14 -492 / 0 0.32 (1)
5-6	-653 / 0	-145.8 -145.8 0.49 (1)	6.25 14-5 -238 / 0 0.06 (1)
6-7	-653 / 0	-145.8 -145.8 0.49 (1)	6.25 14-7 0 / 1856 0.46 (1)
7-8	0 / 392	-145.8 -145.8 0.55 (1)	10.00 12-7 -2241 / 0 0.58 (1)
8-9	-249 / 0	-77.3 -77.3 0.19 (1)	6.25 12-8 -765 / 0 0.47 (1)
17-2	-911 / 0	0.0 0.0 0.10 (1)	7.81 11-8 -7 / 125 0.05 (4)
10-9	-355 / 0	0.0 0.0 0.04 (1)	7.81 2-16 0 / 732 0.18 (1)
			11-9 0 / 221 0.05 (1)
17-16	0 / 0	-17.5 -17.5 0.04 (4)	10.00
16-15	0 / 710	-17.5 -17.5 0.12 (1)	10.00
15-14	0 / 1040	-17.5 -17.5 0.23 (1)	10.00
14-13	-392 / 0	-33.0 -33.0 0.18 (1)	6.25
13-12	-392 / 0	-33.0 -33.0 0.18 (1)	6.25
12-11	0 / 207	-33.0 -33.0 0.21 (1)	10.00
11-10	0 / 0	-33.0 -33.0 0.05 (1)	10.00

FACTORED CONCENTRATED LOADS (LBS)			
JT	LOC.	LC1	MAX- MAX+
8	21-1-3	-207	---
14	13-9-4	-1084	---

FACE	DIR.	TYPE
FRONT	VERT	TOTAL
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 6.00/12

GIRDER TYPE: CPrimeHip
LEFT SETBACK = 4-1-13
RIGHT SETBACK = 3-6-12
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 10-10-12 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:
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- 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 (0.55")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.55")
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.55 (7-8:1) , BC=0.23 (14-15:1) , WB=0.58 (7-12:1) , SSI=0.35 (7-8:1)

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 .

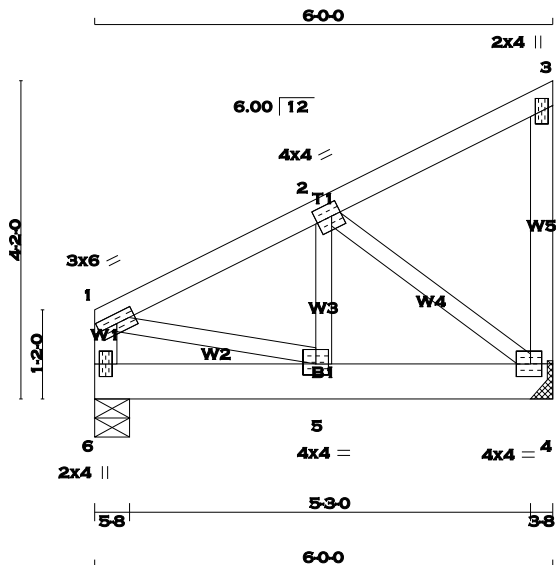
NAIL VALUES			
PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618	354	1667

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 0.250 degrees

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SCALE = 1:30.2

TOTAL WEIGHT = 29 lb

LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
1 - 3	2x4	DRY	No.2	SPF
4 - 3	2x4	DRY	No.2	SPF
6 - 1	2x4	DRY	No.2	SPF
6 - 4	2x6	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
4	1085	0	1085	0	0	HANGER BY OTHERS	
6	1085	0	1085	0	0	MIN. SEAT SIZE: 3-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
4	761	533 / 0	0 / 0	0 / 0	0 / 0	229 / 0	0 / 0
6	761	533 / 0	0 / 0	0 / 0	0 / 0	229 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		MAX. FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 (LC)	MAX. (LC)	UNBRAC. LENGTH	MEMB.	FORCE (LBS)	MAX. (LC)	UNBRAC. LENGTH
FR-TO		FROM	TO			FR-TO			
1-2	-923 / 0	-77.3	-77.3	0.11 (1)	6.25	5-2	0 / 773	0.19 (1)	
2-3	-10 / 0	-77.3	-77.3	0.10 (1)	6.25	2-4	-1047 / 0	0.26 (1)	
4-3	-93 / 0	0.0	0.0	0.02 (1)	7.81	1-5	0 / 862	0.21 (1)	
6-1	-726 / 0	0.0	0.0	0.08 (1)	7.81				
6-5	0 / 0	-284.3	-284.3	0.17 (1)	10.00				
5-4	0 / 834	-284.3	-284.3	0.27 (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

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 13-8-8
END DISTANCE = 6-0-0
END SPAN CARRIED = 13-8-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

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

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

CSI: TC=0.11 (1-2:1) , BC=0.27 (4-5:1) , WB=0.26 (2-4:1) , SSI=0.33 (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.

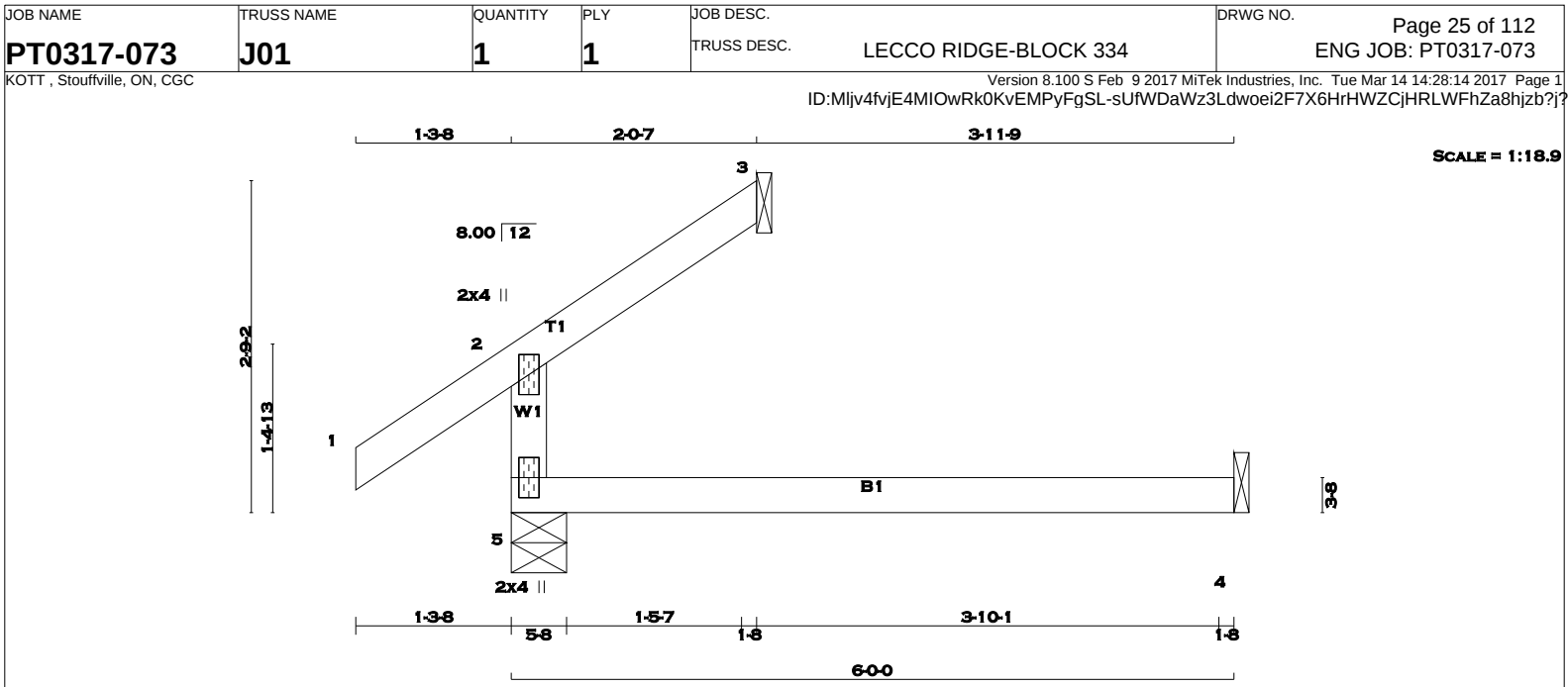
JSI GRIP= 0.87 (2) (INPUT = 0.90)
JSI METAL= 0.31 (5) (INPUT = 1.00)



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LUMBER
N. L. G. A. RULES

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

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
5	265	0	265	0
3	60	0	60	0
4	44	0	49	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS
	COMBINED	SNOW
5	188	123 / 0
3	40	36 / 0
4	35	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

MEMB.	CHORDS	FACTORED	WEBS	FACTORED
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MAX. FORCE (LBS)
FR-TO		FROM TO		
5-2	-204 / 0	0.0	0.0 0.12 (4)	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 (4)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

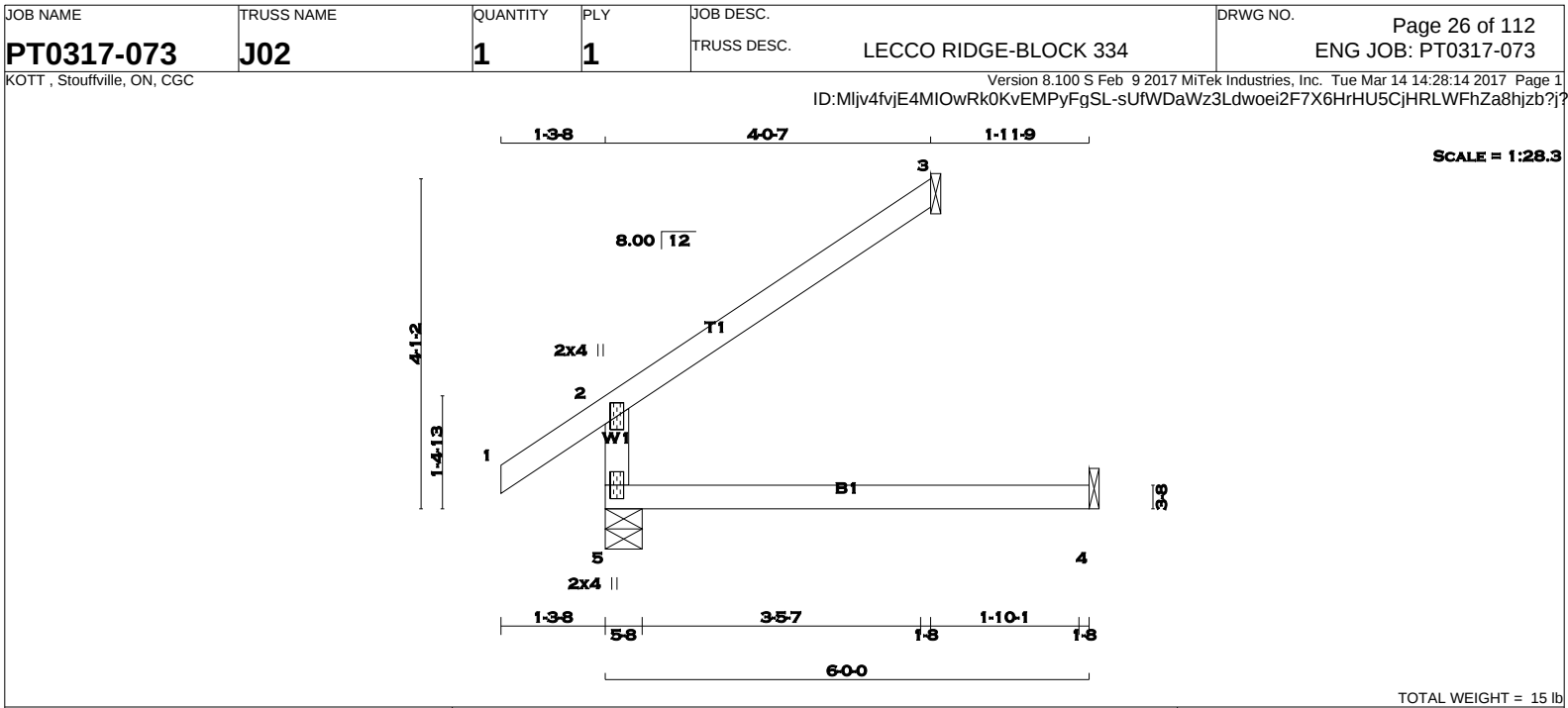
JSI GRIP= 0.13 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)



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

SPF
SPF
SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
5	BMV1+p	MT20	2.0	4.0		

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
5	362	0	362	0
3	117	0	117	0
4	44	0	49	0

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

UNFACTORED REACTIONS

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

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

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

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

LOADING
TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB.	WEBS MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO	
5-2	-301 / 0	0.0	0.0 0.12 (4)	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 (4)	10.00	

[M]

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 (4-5:4), WB=0.00 (n/a:0), SSI=0.13 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

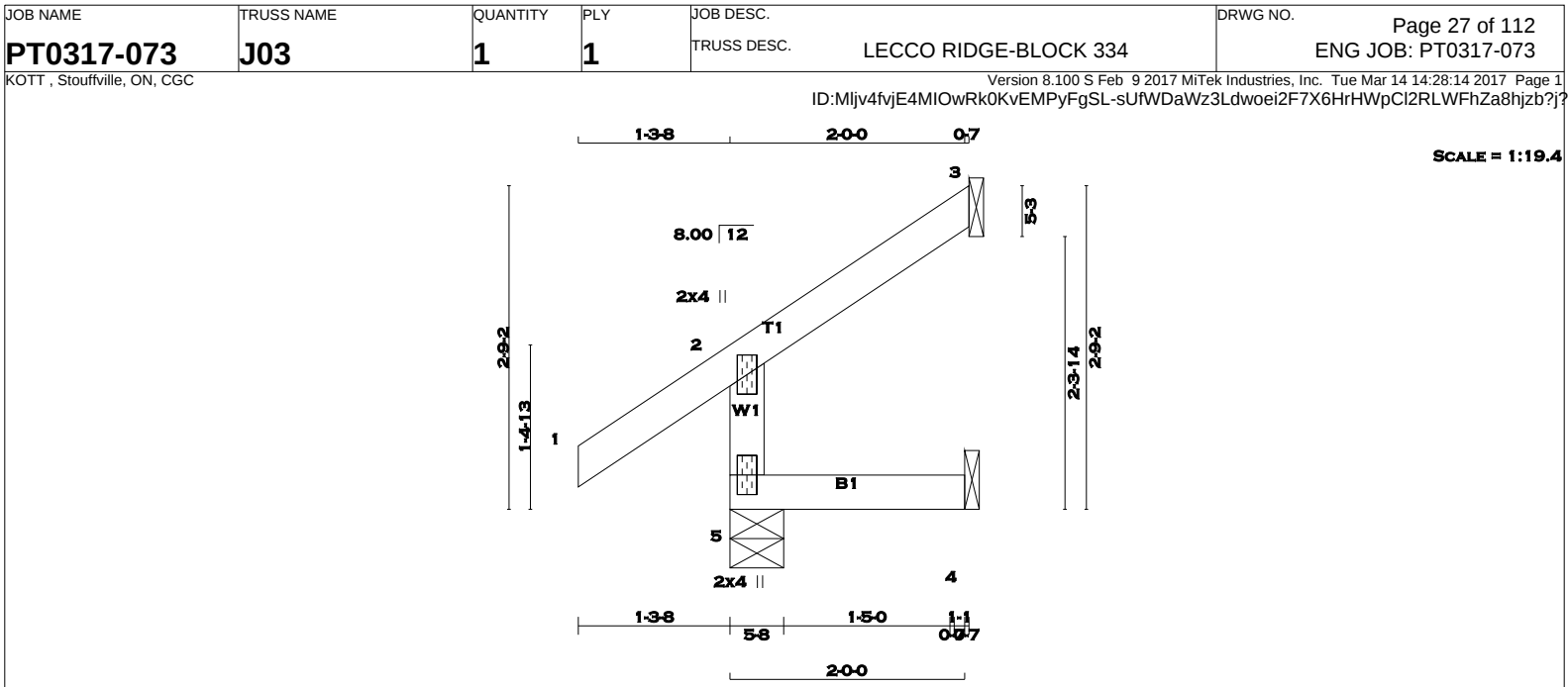
JSI GRIP= 0.19 (2) (INPUT = 0.90)
JSI METAL= 0.07 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 8 lb [M]

LUMBER
N. L. G. A. RULES

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

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
5	223	0	223	0
3	60	0	60	0
4	16	0	18	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	154	123 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0
3	40	36 / 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: (5)

MEMB.	CHORDS	FACTORED	FACTORED	FACTORED	FACTORED	FACTORED	FACTORED
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (LC)	UNBRAC	MEMB. FORCE (LBS)	MAX. (LC)	MEMB. FORCE (LBS)
FR-TO		FROM TO		LENGTH	FR-TO		
5-2	-204 / 0	0.0	0.0	0.01 (4)	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 (4)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	PSF
	23.3	

BOT CH.

LL	PSF
0.0	

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 (4-5:4), 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 MIN
MT20	618 354	1667 822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

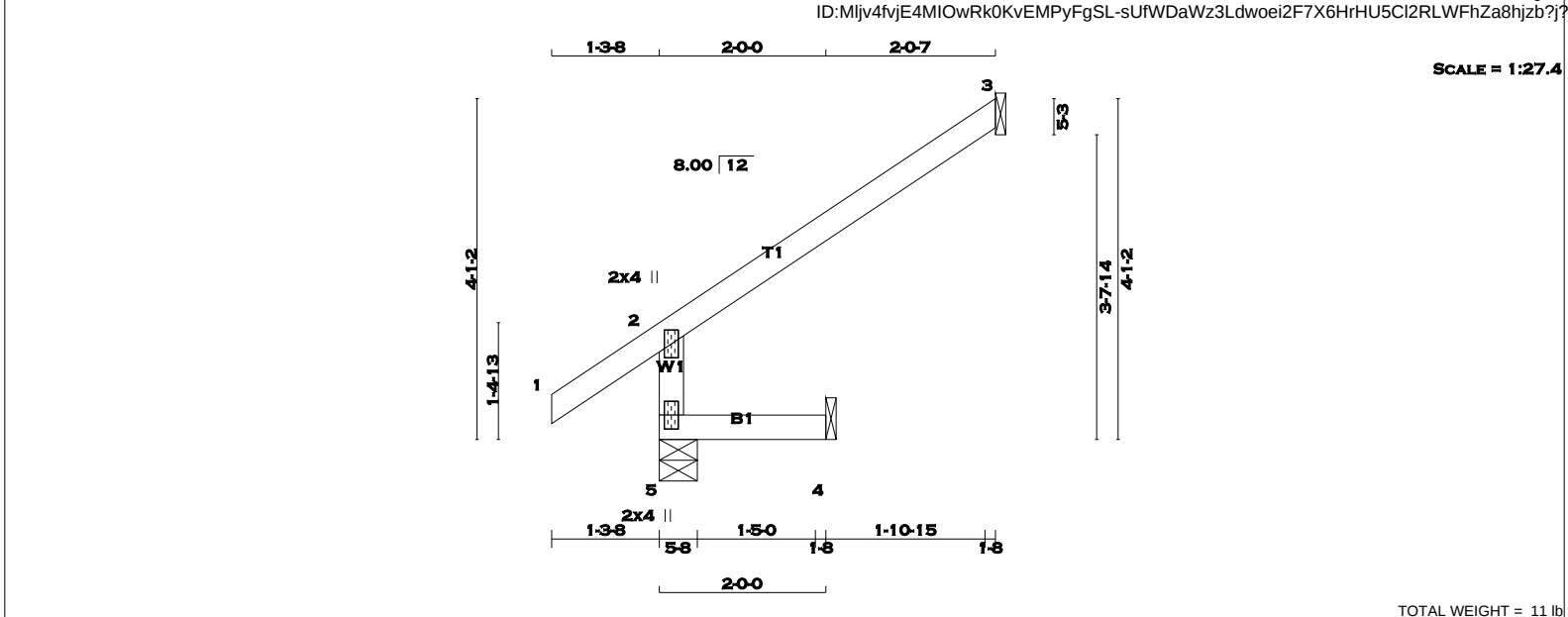
JSI GRIP= 0.13 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 11 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
5 - 2	2x4	No.2	SPF	
1 - 3	2x4	DRY	SPF	
5 - 4	2x4	DRY	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. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
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: (4)

		CHORDS		FACTORED		WEBS		FACTORED	
MEMB.		MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX. CSI (LC)	MEMB.		MAX. FORCE (LBS)	MAX. CSI (LC)
FR-TO			FROM TO		LENGTH	FR-TO			
5-2		-301 / 0	0.0	0.0	0.01 (4)	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 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")
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 (4-5:4), 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.

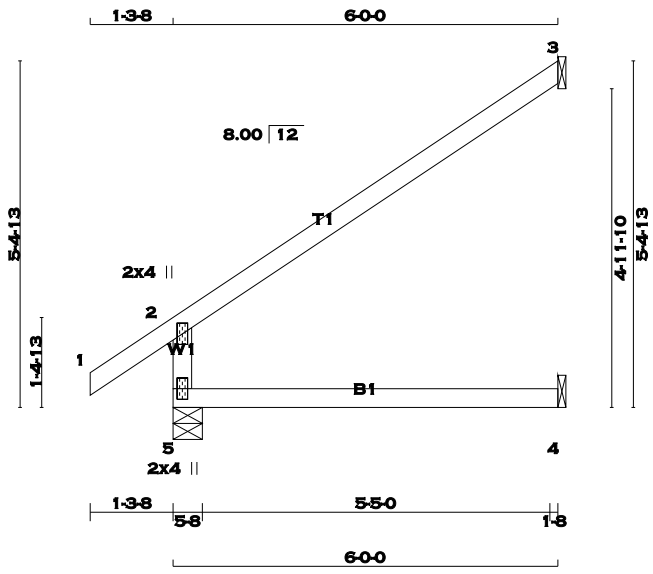
JSI GRIP= 0.19 (2) (INPUT = 0.90)
JSI METAL= 0.07 (2) (INPUT = 1.00)



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SCALE = 1:35.9

TOTAL WEIGHT = 8 X 18 = 145 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
5 - 2	2x4	No.2	SPF
1 - 3	2x4	No.2	SPF
5 - 4	2x4	DRY	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		
5	457	0	457	0	5-8	5-8
3	174	0	174	0	1-8	1-8
4	44	0	49	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: (4)

MEMB.	CHORDS		FACTORED		MAX. UNBRAC	WEBS	
	MAX. FACTORED	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX		MEMB. FORCE (LBS)	FACTORED MAX
FR-TO							
5-2	-396 / 0		0.0	0.0	0.12 (4)	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 (4)	10.00	

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	PSF
DL	23.3	PSF
BOT CH.	LL	PSF
DL	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 (4-5:4) , 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)	(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= 0.25 (2) (INPUT = 0.90)
JSI METAL= 0.10 (2) (INPUT = 1.00)



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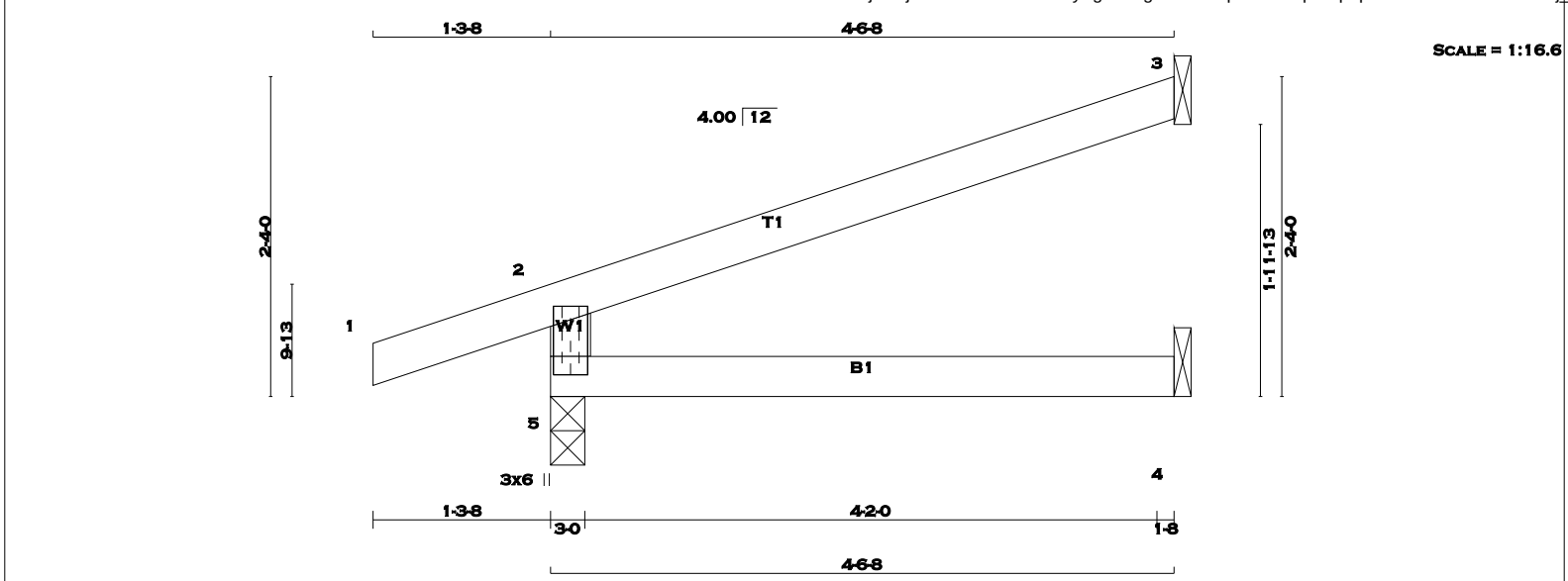
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ID: Mljv4fvjE4MIOwRk0KvEMPyFgSL-KgCuRvXbqelnPoHEpr2Lp3pexc4JAomOvDjiD9zb?]



TOTAL WEIGHT = 7 X 13 = 89 lb

[M]

LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2						
5	TMBMV1+p	MT20	3.0	6.0	3.50	1.50

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
5	370	370	3-0	3-0
3	132	132	1-8	1-8
4	32	36	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
5	257	194 / 0
3	90	79 / 0
4	26	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	VERT. LOAD	MAX. FACTORED	MAX. FACTORED
	FORCE (LBS)	(PLF)	FORCE (LBS)	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
5-2	-323 / 0	0.0	0.08 (4)	7.81
1-2	0 / 16	-77.3	0.10 (1)	10.00
2-3	-14 / 0	-77.3	0.27 (1)	6.25
5-4	0 / 0	-17.5	0.08 (4)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

- CSA 086-09

- TPIC 2011

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

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

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

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

CSI: TC=0.27 (2-3:1) , BC=0.08 (4-5:4) , WB=0.00 (n/a:0) , SSI=0.16 (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= 0.28 (5) (INPUT = 0.90)

JSI METAL= 0.04 (5) (INPUT = 1.00)



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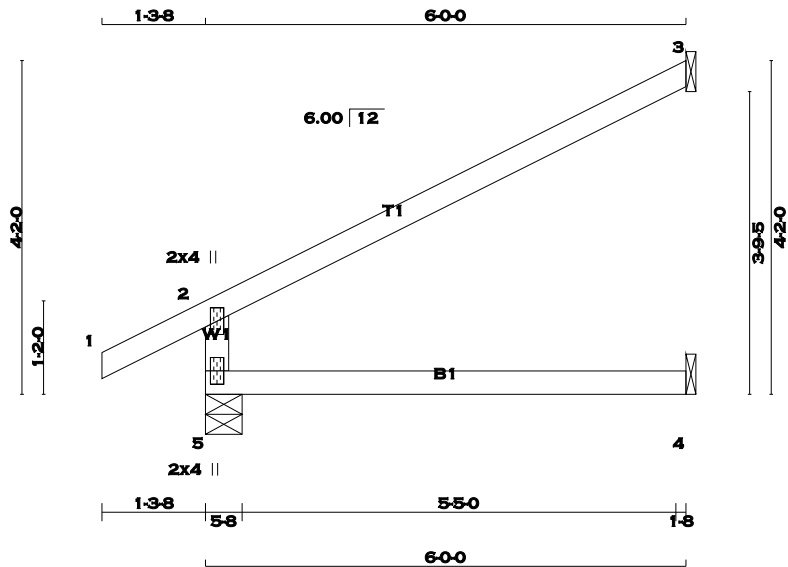
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SCALE = 1:28.8

TOTAL WEIGHT = 17 X 17 = 291 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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
5	457	0	457	0	5-8	5-8
3	174	0	174	0	1-8	1-8
4	43	0	49	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	238 / 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: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)		
FR-TO		FROM	TO	LENGTH	FR-TO				
5-2	-395 / 0	0.0	0.0	0.13 (4)	7.81				
1-2	0 / 23	-77.3	-77.3	0.10 (1)	10.00				
2-3	-26 / 0	-77.3	-77.3	0.47 (1)	6.25				
5-4	0 / 0	-17.5	-17.5	0.13 (4)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/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 (4-5:4) , WB=0.00 (n/a:0) , SSI=0.20 (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= 0.23 (2) (INPUT = 0.90)
JSI METAL= 0.09 (2) (INPUT = 1.00)



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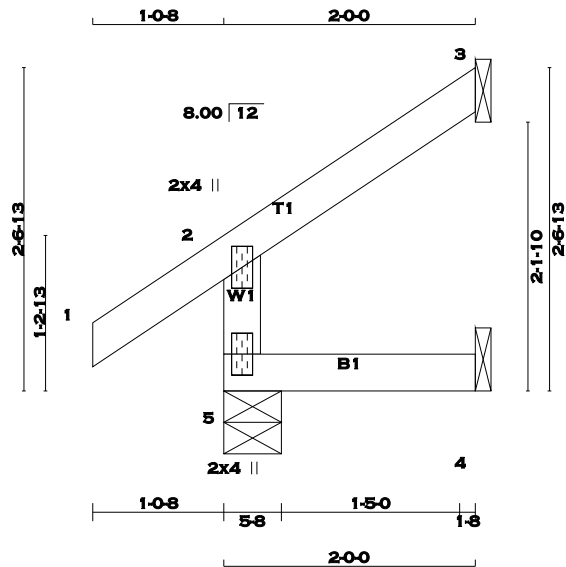
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JSI GRIP= 0.13 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)





SCALE = 1:18.3

TOTAL WEIGHT = 2 X 8 = 15 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		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
5		202	0	202	0	0	5-8	5-8	
3		58	0	58	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	140	110 / 0	0 / 0	0 / 0	0 / 0	30 / 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: (5)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (LC)	MAX. UNBRACED LENGTH	MEMB.	FORCE (LBS)	MAX. (LC)
FR-TO		FROM TO			FR-TO		
5-2	-183 / 0	0.0	0.0 0.01 (4)	7.81			
1-2	0 / 24	-77.3	-77.3 0.07 (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 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

CSI: TC=0.07 (1-2:1), BC=0.02 (4-5:4), WB=0.00 (n/a:0), SSI=0.06 (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.

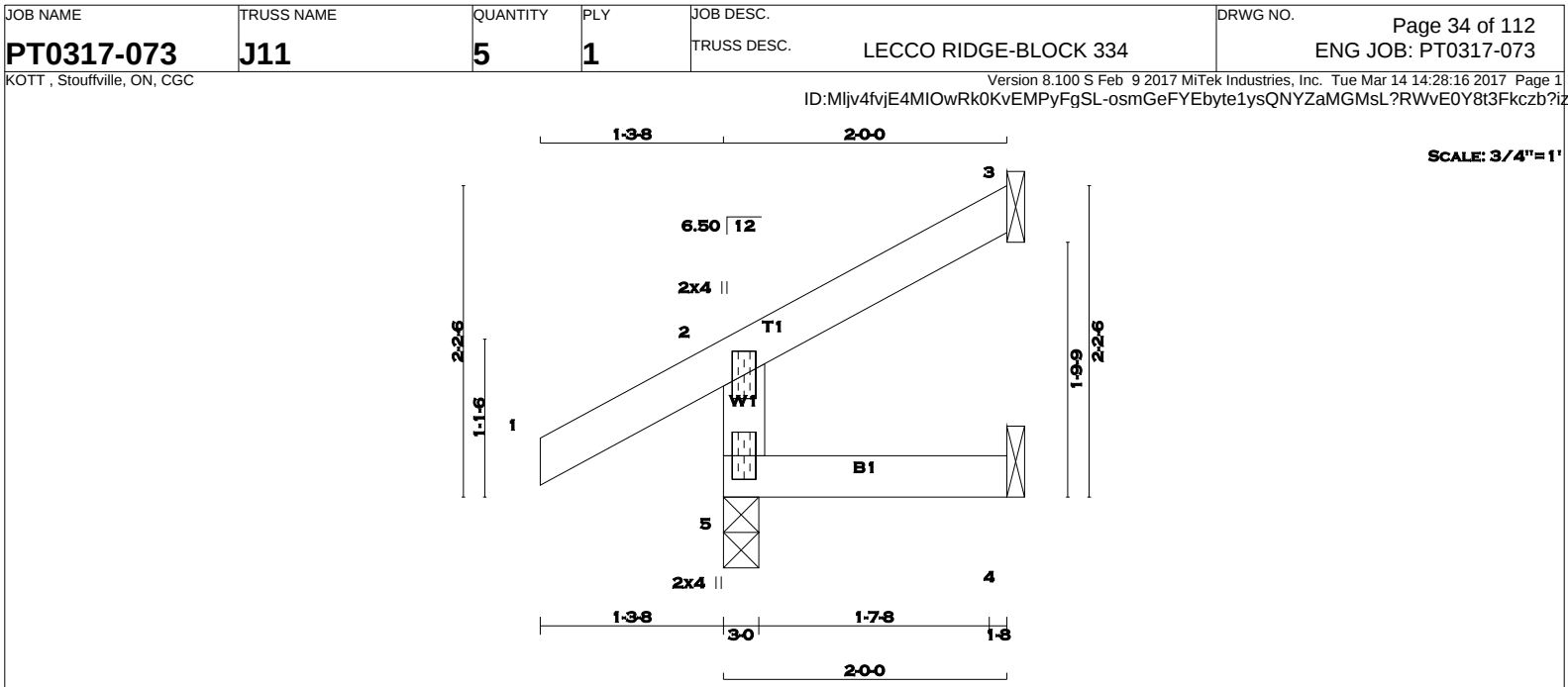
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JSI METAL= 0.04 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 5 X 7 = 37 lb [M]

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

5 - 2	2x4	DRY	No.2	
1 - 3	2x4	DRY	No.2	
5 - 4	2x4	DRY	No.2	

DRY: SEASONED LUMBER.

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		
5	221	0	221	0	3-0	3-0
3	58	0	58	0	1-8	1-8
4	16	0	17	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	153	121 / 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	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 = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (5)

MEMB.	CHORDS		FACTORED		MAX. UNBRAC	MEMB.	WEBS	
	MAX. FACTORED	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX			MAX. FACTORED	FORCE (LBS)
FR-TO			FROM	TO	LENGTH	FR-TO		
5-2	-202 / 0		0.0	0.0	0.01 (4)	7.81		
1-2	0 / 25		-77.3	-77.3	0.10 (1)	10.00		
2-3	-9 / 0		-77.3	-77.3	0.05 (1)	10.00		
5-4	0 / 0		-17.5	-17.5	0.02 (4)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

CSI: TC=0.10 (1-2:1), BC=0.02 (4-5:4), 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 MIN
MT20	618 354	1667 822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

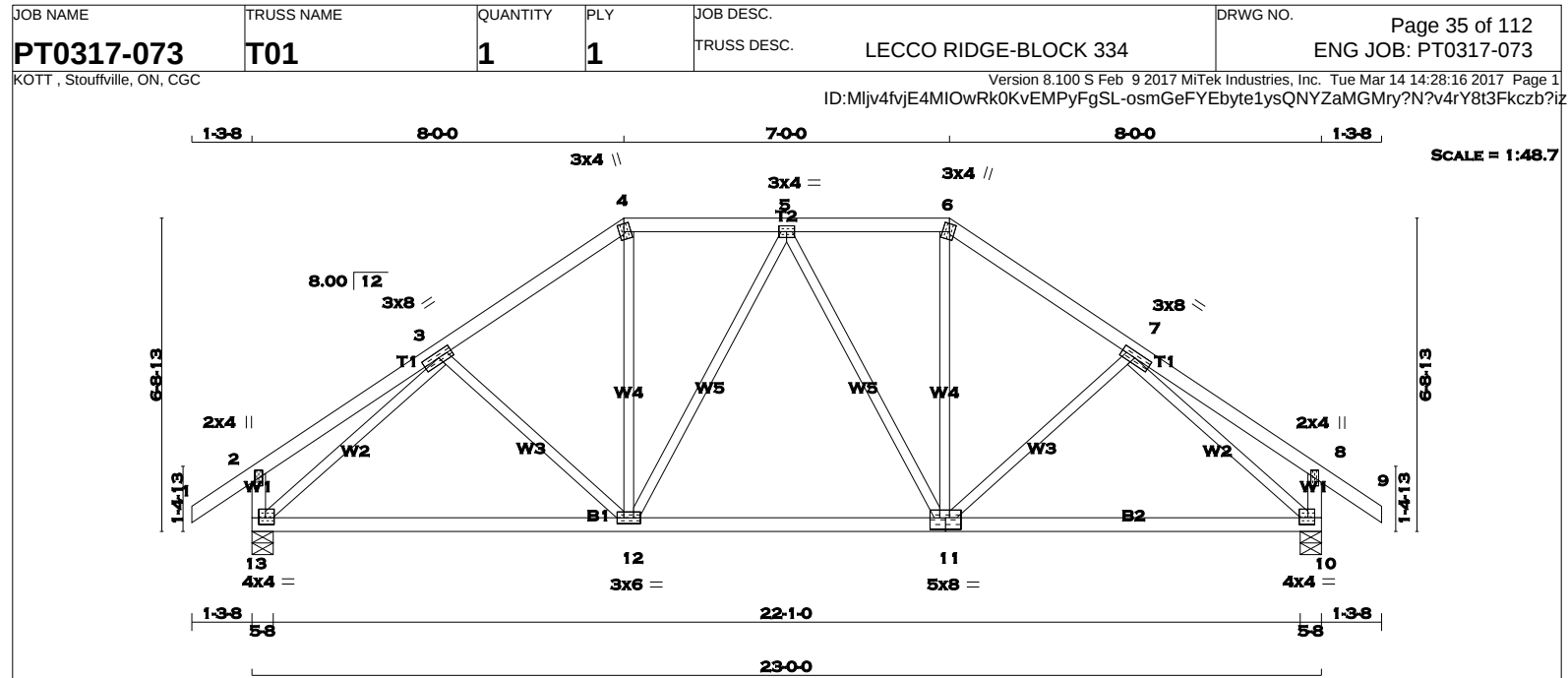
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JSI METAL= 0.05 (2) (INPUT = 1.00)



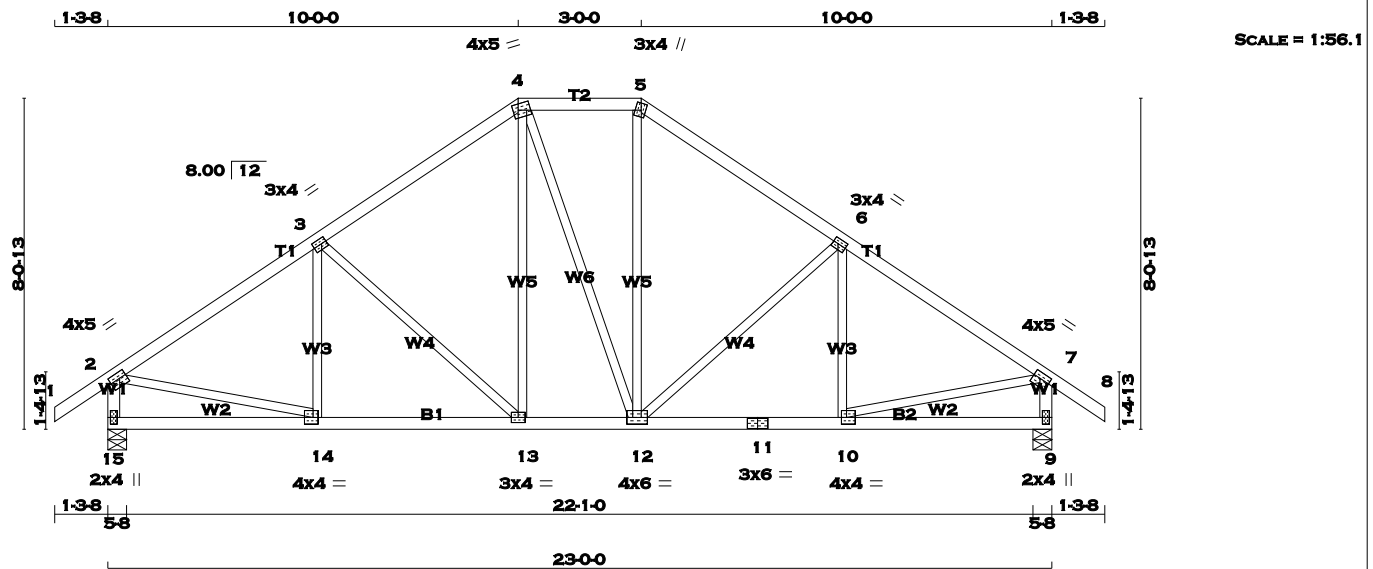
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LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 4 2x4 DRY No.2 SPF 4 - 6 2x4 DRY No.2 SPF 6 - 9 2x4 DRY No.2 SPF 13- 2 2x4 DRY No.2 SPF 10- 8 2x4 DRY No.2 SPF 13- 11 2x4 DRY No.2 SPF 11- 10 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.						DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td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TOTAL WEIGHT = 107 lb

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 5	2x4	DRY	No.2	SPF
5 - 8	2x4	DRY	No.2	SPF
15 - 2	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF
15 - 11	2x4	DRY	No.2	SPF
11 - 9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
<u>BEARINGS</u>									
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT UPLIFT	REQRD BRG		IN-SX	BRG
	VERT	HORZ	DOWN	HORZ		IN-SX	BRG		
15	1197	0	1197	0	0	5-8	5-8		
9	1197	0	1197	0	0	5-8	5-8		

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

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	TTW+m	MT20	3.0	4.0	2.00 1.25
6	TMVW-t	MT20	3.0	4.0	1.50 1.50
7	TMVW-t	MT20	4.0	5.0	1.75 2.00
9	BMV1+p	MT20	2.0	4.0	
10	BMVW-t	MT20	4.0	4.0	2.00 1.50
11	BS-t	MT20	3.0	6.0	
12	BMVWWW-t	MT20	4.0	6.0	
13	BMVW-t	MT20	3.0	4.0	
14	BMVW-t	MT20	4.0	4.0	2.00 1.50
15	BMV1+p	MT20	2.0	4.0	

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

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 15, 9

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.53 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING									
TOTAL LOAD CASES: (4)									
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	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)		
FR-TO		FROM TO		LENGTH	FR-TO				
1- 2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	14- 3	-117 / 52	0.04 (1)		
2- 3	-1209 / 0	-77.3	-77.3 0.27 (1)	5.53	3-13	-313 / 0	0.26 (1)		
3- 4	-981 / 0	-77.3	-77.3 0.26 (1)	5.98	13- 4	0 / 270	0.06 (1)		
4- 5	-798 / 0	-77.3	-77.3 0.10 (1)	6.25	4-12	0 / 3	0.00 (1)		
5- 6	-982 / 0	-77.3	-77.3 0.26 (1)	5.98	12- 5	0 / 274	0.06 (1)		
6- 7	-1208 / 0	-77.3	-77.3 0.27 (1)	5.53	12- 6	-311 / 0	0.26 (1)		
7- 8	0 / 29	-77.3	-77.3 0.10 (1)	10.00	10- 6	-119 / 51	0.04 (1)		
15- 2	-1160 / 0	0.0	0.0 0.12 (1)	7.39	2-14	0 / 1049	0.24 (1)		
9- 7	-1160 / 0	0.0	0.0 0.12 (1)	7.40	10- 7	0 / 1049	0.24 (1)		
15-14	0 / 0	-17.5	-17.5 0.11 (4)	10.00					
14-13	0 / 1027	-17.5	-17.5 0.22 (1)	10.00					
13-12	0 / 797	-17.5	-17.5 0.16 (1)	10.00					
12-11	0 / 1026	-17.5	-17.5 0.22 (1)	10.00					
11-10	0 / 1026	-17.5	-17.5 0.22 (1)	10.00					
10- 9	0 / 0	-17.5	-17.5 0.11 (4)	10.00					

LOADING IN FLAT SECTION BASED ON A SLOPE
OF 6.00/12

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 (0.77")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.77")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.27 (2-3:1) , BC=0.22 (13-14:1) ,
WB=0.26 (3-13:1) , SSI=0.16 (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) (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.

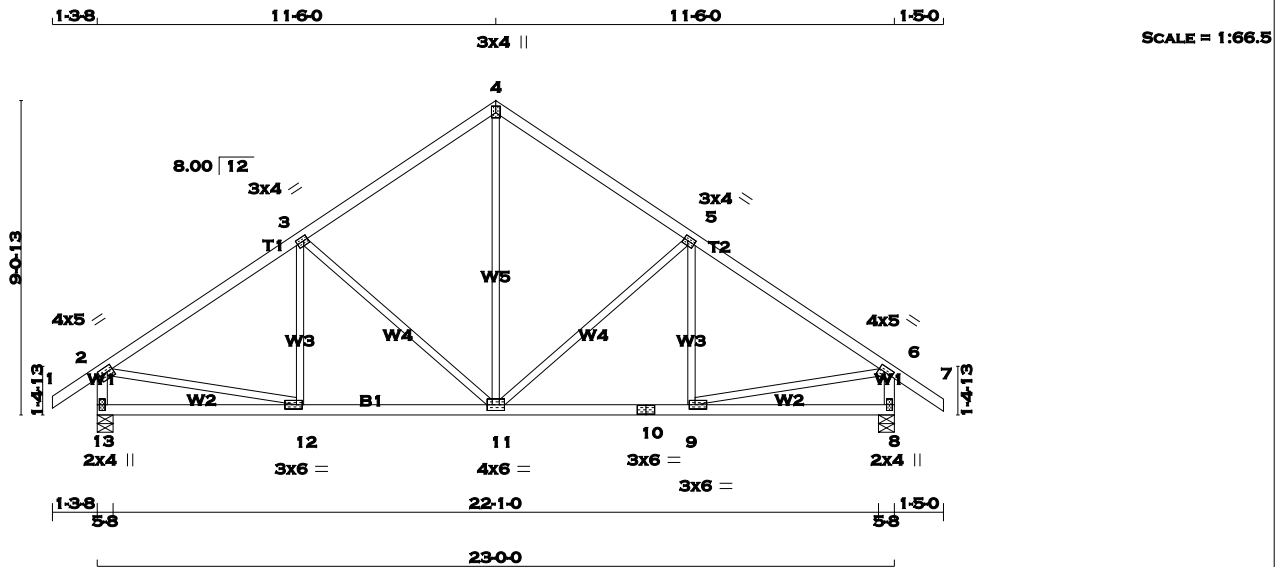
JSI GRIP= 0.88 (14) (INPUT = 0.90)
JSI METAL= 0.41 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 3 X 99 = 298 lb
[M][F]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 7	2x4	DRY	No.2	SPF
13 - 2	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
13 - 10	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
DRY: SEASONED LUMBER.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.75	2.00
3	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TTW+p	MT20	3.0	4.0	2.25	1.50
5	TMVW-t	MT20	3.0	4.0	1.50	1.50
6	TMVW-t	MT20	4.0	5.0	1.75	2.00
8	BMV1+p	MT20	2.0	4.0		
9	BMVW-t	MT20	3.0	6.0	1.50	2.00
10	BS-t	MT20	3.0	6.0		
11	BMVW-t	MT20	4.0	6.0		
12	BMVW-t	MT20	3.0	6.0	1.50	2.00
13	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS	REACTION	GROSS	REACTION	DOWN	HORZ	BRG	BRG
13	1197	0		1197	0	0	5-8	5-8	5-8
8	1207	0		1207	0	0	5-8	5-8	5-8

UNFACTORED REACTIONS							
JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
13	838	599 / 0	0 / 0	0 / 0	0 / 0	0 / 0	238 / 0
8	844	605 / 0	0 / 0	0 / 0	0 / 0	0 / 0	239 / 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 = 5.41 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING				TOTAL LOAD CASES: (4)			
CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (LBS)	LC1 MAX (PLF)	MEMB.	MAX. FORCE (LBS)	LC1 MAX (PLF)	UNBRAC LENGTH
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	11-4	0 / 635
2-3	-1206 / 0	-77.3	-77.3	0.36 (1)	5.41	11-5	-408 / 0
3-4	-898 / 0	-77.3	-77.3	0.34 (1)	6.05	9-5	-78 / 72
4-5	-898 / 0	-77.3	-77.3	0.34 (1)	6.05	3-11	-408 / 0
5-6	-1206 / 0	-77.3	-77.3	0.36 (1)	5.41	12-3	-78 / 72
6-7	0 / 32	-77.3	-77.3	0.12 (1)	10.00	2-12	0 / 1045
13-2	-1154 / 0	0.0	0.0	0.12 (1)	7.41	9-6	0 / 1045
8-6	-1164 / 0	0.0	0.0	0.12 (1)	7.39		
13-12	0 / 0	-17.5	-17.5	0.14 (4)	10.00		
12-11	0 / 1027	-17.5	-17.5	0.23 (1)	10.00		
11-10	0 / 1027	-17.5	-17.5	0.23 (1)	10.00		
10-9	0 / 1027	-17.5	-17.5	0.23 (1)	10.00		
9-8	0 / 0	-17.5	-17.5	0.14 (4)	10.00		

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

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 (0.77")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.77")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.36 (2-3:1) , BC=0.23 (11-12:1) , WB=0.46 (3-11:1) , SSI=0.18 (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.

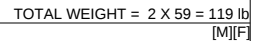
JSI GRIP= 0.88 (9) (INPUT = 0.90)
JSI METAL= 0.42 (2) (INPUT = 1.00)



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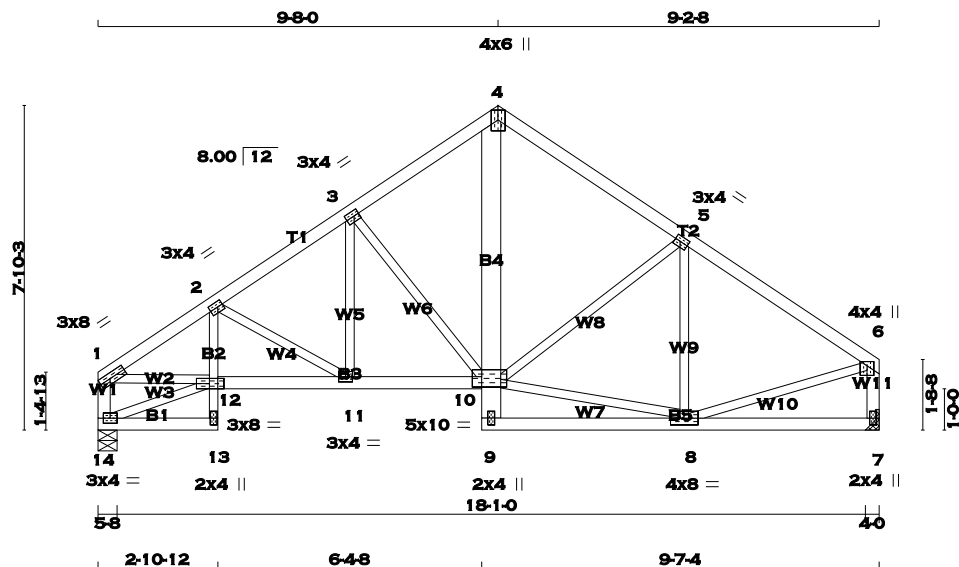
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

CHORDS				WEBS			
MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	8-4	0 / 357	0.08 (1)
2-3	0 / 17	-77.3	-77.3 0.15 (1)	10.00	8-5	-147 / 6	0.06 (1)
3-4	-531 / 0	-77.3	-77.3 0.12 (1)	6.25	3-8	-147 / 6	0.06 (1)
4-5	-531 / 0	-77.3	-77.3 0.12 (1)	6.25	9-3	-744 / 0	0.29 (1)
5-6	0 / 17	-77.3	-77.3 0.15 (1)	10.00	5-7	-744 / 0	0.29 (1)
9-2	-212 / 0	0.0	0.0 0.02 (1)	7.81			
7-6	-106 / 0	0.0	0.0 0.01 (1)	7.81			
9-8	0 / 533	-17.5	-17.5 0.29 (4)	10.00			
8-7	0 / 533	-17.5	-17.5 0.29 (4)	10.00			

JSI GRIP= 0.82 (3) (INPUT = 0.90)
JSI METAL= 0.21 (3) (INPUT = 1.00)



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LUMBER		N. L. G. A. RULES		LUMBER		DESCR.	
CHORDS	SIZE						
1 - 4	2x4	DRY	No.2	SPF			
4 - 6	2x4	DRY	No.2	SPF			
14 - 1	2x4	DRY	No.2	SPF			
7 - 6	2x4	DRY	No.2	SPF			
14 - 13	2x4	DRY	No.2	SPF			
13 - 2	2x3	DRY	No.2	SPF			
12 - 10	2x4	DRY	No.2	SPF			
9 - 4	2x6	DRY	No.2	SPF			
9 - 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
1	TMVW-t	MT20	3.0	8.0		Edge
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TTV+p	MT20	4.0	6.0		Edge
5	TMVW-t	MT20	3.0	4.0	1.50	1.50
6	TMVW+p	MT20	4.0	4.0	1.25	2.00
7	BMV1+p	MT20	2.0	4.0		
8	BMVWW-t	MT20	4.0	8.0		
9	BMV+p	MT20	2.0	4.0		
10	BMVWW-t	MT20	5.0	10.0	3.00	2.75
11	BMVW-t	MT20	3.0	4.0		
12	BMVWW-t	MT20	3.0	8.0		Edge 4.25
13	BMV+p	MT20	2.0	4.0		
14	BMVW1-t	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.

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
7	895	0	895	0	0	HANGER BY OTHERS			
14	895	0	895	0	0	MIN. SEAT SIZE: 4-0	5-8	5-8	

UNFACTORED REACTIONS		1ST LCASE		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
7	628	439 / 0	0 / 0	0 / 0	0 / 0
14	628	439 / 0	0 / 0	0 / 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 = 5.45 FT.

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

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

LOADING		TOTAL LOAD CASES: (4)	
CHORDS		MEMB.	
MAX. FACTORED	FACTORED	MAX. FACTORED	FACTORED
FORCE (LBS)	VERT. LOAD (PLF)	FORCE (LBS)	VERT. LOAD (PLF)
FR-TO	FROM TO	FR-TO	FROM TO
1-2	-1385 / 0	-77.3	-77.3 0.09 (1)
2-3	-1095 / 0	-77.3	-77.3 0.12 (1)
3-4	-803 / 0	-77.3	-77.3 0.11 (1)
4-5	-782 / 0	-77.3	-77.3 0.21 (1)
5-6	-871 / 0	-77.3	-77.3 0.22 (1)
14-1	-865 / 0	0.0	0.0 0.09 (1)
7-6	-864 / 0	0.0	0.0 0.09 (1)
14-13	0 / 14	-17.5	-17.5 0.04 (4)
13-12	0 / 27	0.0	0.0 0.05 (1)
12-2	0 / 74	0.0	0.0 0.06 (1)
12-11	0 / 1168	-17.5	-17.5 0.21 (1)
11-10	0 / 919	-17.5	-17.5 0.17 (1)
9-10	0 / 37	0.0	0.0 0.05 (1)
10-4	0 / 616	0.0	0.0 0.12 (1)
9-8	0 / 64	-17.5	-17.5 0.11 (4)
8-7	0 / 0	-17.5	-17.5 0.11 (4)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF

DL = 3.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.0 PSF

TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.63")

CALCULATED VERT. DEFL.(LL) = L/999 (0.03")

ALLOWABLE DEFL.(TL)= L/360 (0.63")

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

CSI: TC=0.22 (5-6:1), BC=0.21 (11-12:1), WB=0.26 (1-12:1), SSI=0.15 (5-6:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE GRIP(DRY) 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= 0.86 (14) (INPUT = 0.90)

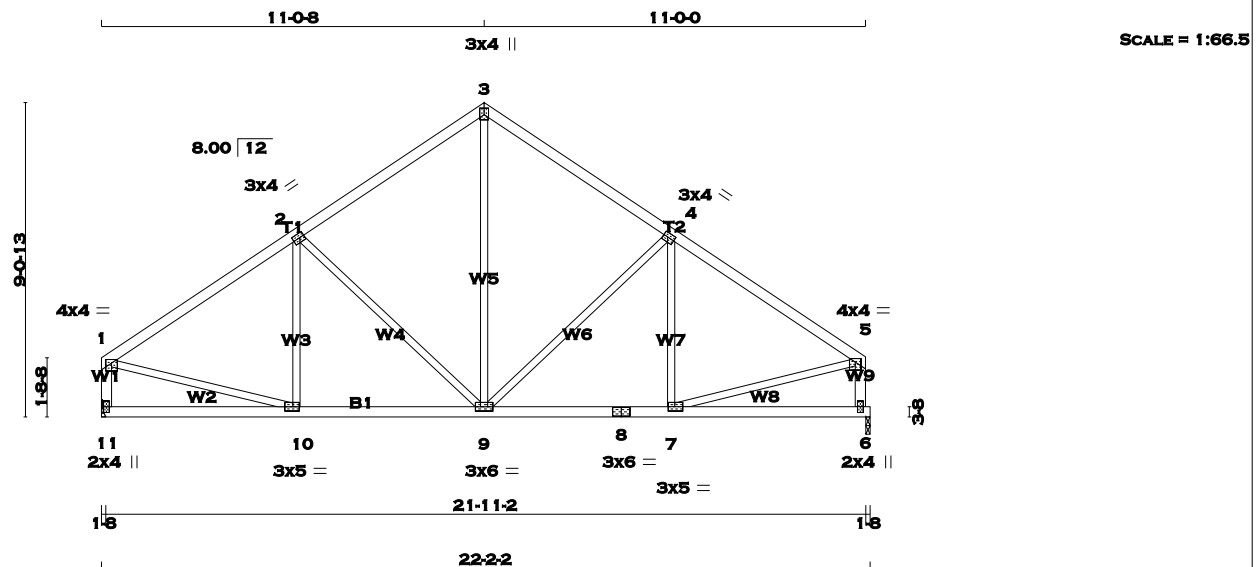
JSI METAL= 0.29 (12) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 94 = 188 lb

LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF			
3 - 5	2x4	DRY	No.2	SPF			
11 - 1	2x4	DRY	No.2	SPF			
6 - 5	2x4	DRY	No.2	SPF			
11 - 8	2x4	DRY	No.2	SPF			
8 - 6	2x4	DRY	No.2	SPF			
ALL WEBS	2x3	DRY	No.2	SPF			
EXCEPT							
DRY: SEASONED LUMBER.							

PLATES (table is in inches)							
JT	TYPE	PLATES	W	LEN	Y	X	
1	TMVW-p	MT20	4.0	4.0	1.25	2.00	
2	TMVW-t	MT20	3.0	4.0	1.50	1.50	
3	TTW+p	MT20	3.0	4.0	2.25	1.50	
4	TMVW-t	MT20	3.0	4.0	1.50	1.50	
5	TMVW-p	MT20	4.0	4.0	1.25	2.00	
6	BMV1+p	MT20	2.0	4.0			
7	BMVW-t	MT20	3.0	5.0	1.50	2.25	
8	BS-t	MT20	3.0	6.0			
9	BMVW-t	MT20	3.0	6.0			
10	BMVW-t	MT20	3.0	5.0	1.50	2.25	
11	BMV1+p	MT20	2.0	4.0			

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQRD
JT	GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
11	VERT	HORZ	DOWN	HORZ	UPLIFT
11	1045	0	1045	0	0
6	1045	0	1045	0	0

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS	PERM.	LIVE	WIND	DEAD	SOIL
11	734	513 / 0	0 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0
6	734	513 / 0	0 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.69 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		MAX.		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 (LC)	MAX.	UNBRAC	MEMB.	FORCE (LBS)	MAX.	LC1 (LC)
FR-TO		FROM	TO	LENGTH	FR-TO				
1-2	-1075 / 0	-77.3	-77.3	0.33 (1)	5.69	10-2	-119 / 57	0.05 (1)	
2-3	-826 / 0	-77.3	-77.3	0.31 (1)	6.25	2-9	-351 / 0	0.39 (1)	
3-4	-826 / 0	-77.3	-77.3	0.31 (1)	6.25	9-3	0 / 570	0.13 (1)	
4-5	-1069 / 0	-77.3	-77.3	0.32 (1)	5.71	9-4	-345 / 0	0.38 (1)	
11-1	-1005 / 0	0.0	0.0	0.11 (1)	7.80	7-4	-123 / 55	0.06 (1)	
6-5	-1005 / 0	0.0	0.0	0.11 (1)	7.80	1-10	0 / 945	0.21 (1)	
						7-5	0 / 941	0.21 (1)	
11-10	0 / 0	-17.5	-17.5	0.13 (4)	10.00				
10-9	0 / 918	-17.5	-17.5	0.21 (1)	10.00				
9-8	0 / 912	-17.5	-17.5	0.21 (1)	10.00				
8-7	0 / 912	-17.5	-17.5	0.21 (1)	10.00				
7-6	0 / 0	-17.5	-17.5	0.13 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:

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

(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 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.33 (1-2:1), BC=0.21 (9-10:1), WB=0.39 (2-9:1), SSI=0.17 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

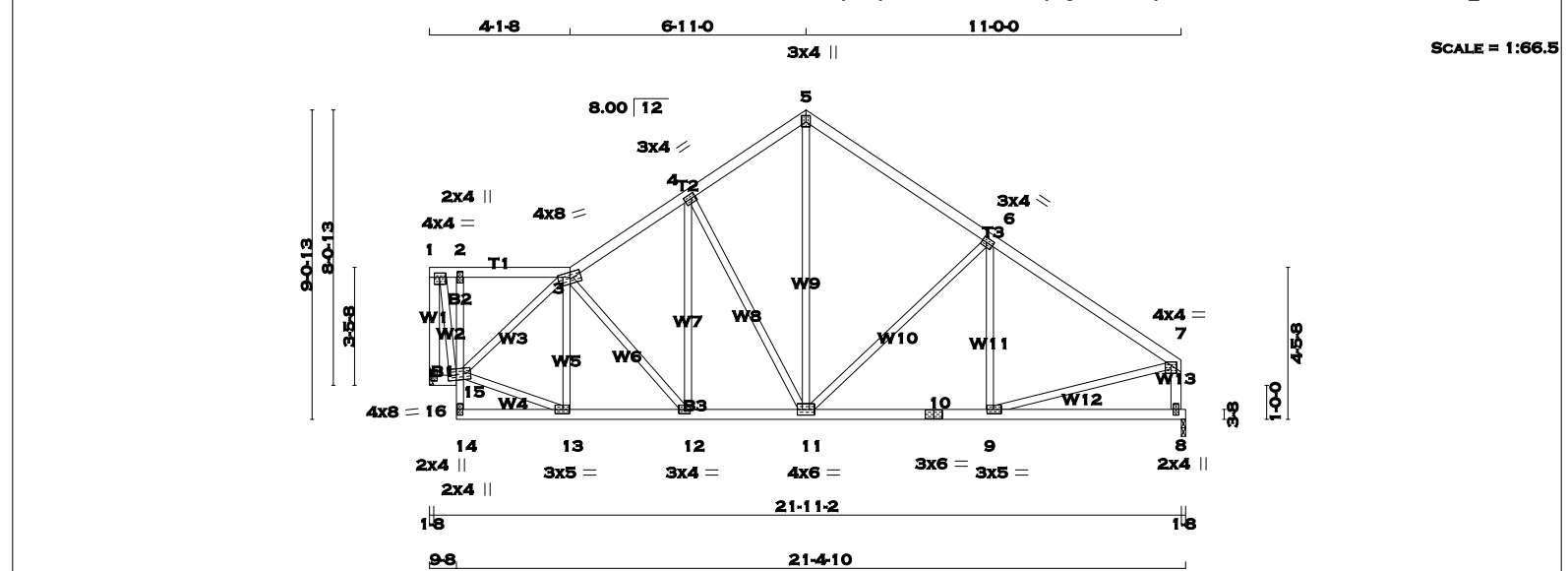
JSI GRIP= 0.90 (1) (INPUT = 0.90)
JSI METAL= 0.32 (1) (INPUT = 1.00)



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LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

16 - 1

2x4

DRY

No.2

SPF

1 - 3

2x4

DRY

No.2

SPF

3 - 5

2x4

DRY

No.2

SPF

5 - 7

2x4

DRY

No.2

SPF

8 - 7

2x4

DRY

No.2

SPF

16 - 15

2x4

DRY

No.2

SPF

14 - 2

2x3

DRY

No.2

SPF

14 - 10

2x4

DRY

No.2

SPF

10 - 8

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

EXCEPT

DRY: SEASONED LUMBER.

TOTAL WEIGHT = 3 X 110 = 330 lb

[M][F]

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	
		VERT		DOWN		HORIZ		IN-SX	
JT	16	1045	0	1045	0	0	0	HANGER BY OTHERS	MIN. SEAT SIZE: 1-8
8	1045	0	1045	0	0	1-8	1-8		
UNFACTORED REACTIONS									
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
		COMBINED		LIVE		PERM.LIVE		WIND	
JT	16	734	513 / 0	0 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0
8	734	513 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.71 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

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 ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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 (0.73")

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")

ALLOWABLE DEFL.(TL)= L/360 (0.73")

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

CSI: TC=0.32 (6-7:1), BC=0.21 (9-11:1), WB=0.38 (6-11:1), SSI=0.17 (6-7:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (15) (INPUT = 0.90)

JSI METAL= 0.39 (15) (INPUT = 1.00)

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	4.0	4.0	1.50	1.75
2	TMV+p	MT20	2.0	4.0		
3	TTWWW-m	MT20	4.0	8.0	1.75	3.75
4	TMWW-t	MT20	3.0	4.0	1.50	1.50
5	TTW+p	MT20	3.0	4.0	2.25	1.50
6	TMWW-t	MT20	3.0	4.0	1.50	1.50
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	1.50	2.25
10	BS-t	MT20	3.0	6.0		
11	BMWWW-t	MT20	4.0	6.0		
12	BMWW-t	MT20	3.0	4.0		
13	BMWW-t	MT20	3.0	5.0	1.50	2.25
14	BMV+p	MT20	2.0	4.0		
15	BVMWWW-w	MT20	4.0	8.0	1.75	3.00
16	BMV1+p	MT20	2.0	4.0		
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.						

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.71 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.						
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.						
LOADING						
TOTAL LOAD CASES: (4)						
C H O R D S			W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO		
16-1	-1037 / 0	0.0	0.0 0.19 (1)	7.71	1-15	0 / 1102
1- 2	-300 / 0	-77.3	-77.3 0.05 (1)	6.25	15-13	0 / 879
2- 3	-299 / 0	-77.3	-77.3 0.09 (1)	6.25	15- 3	-759 / 0
3- 4	-972 / 0	-77.3	-77.3 0.12 (1)	6.18	13- 3	-203 / 0
4- 5	-812 / 0	-77.3	-77.3 0.12 (1)	6.25	3-12	-35 / 0
5- 6	-825 / 0	-77.3	-77.3 0.31 (1)	6.25	12- 4	0 / 80
6- 7	-1069 / 0	-77.3	-77.3 0.32 (1)	5.71	4-11	-344 / 0
8- 7	-1005 / 0	0.0	0.0 0.11 (1)	7.80	11- 5	0 / 623
					11- 6	-346 / 0
16-15	0 / 0	-17.5	-17.5 0.00 (4)	10.00	9- 6	-122 / 57
14-15	0 / 24	0.0	0.0 0.02 (1)	10.00	9- 7	0 / 941
15- 2	-232 / 0	0.0	0.0 0.02 (1)	7.81		
14-13	0 / 5	-17.5	-17.5 0.04 (4)	10.00		
13-12	0 / 847	-17.5	-17.5 0.16 (1)	10.00		
12-11	0 / 825	-17.5	-17.5 0.17 (1)	10.00		
11-10	0 / 913	-17.5	-17.5 0.21 (1)	10.00		
10- 9	0 / 913	-17.5	-17.5 0.21 (1)	10.00		
9- 8	0 / 0	-17.5	-17.5 0.13 (4)	10.00		

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 (0.73") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03") ALLOWABLE DEFL.(TL)= L/360 (0.73") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")			
CSI: TC=0.32 (6-7:1) , BC=0.21 (9-11:1) , WB=0.38 (6-11:1) , SSI=0.17 (6-7:1)			
DOL LUMBER=1.00 NAIL=1.00 LBS 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			

LICENSED PROFESSIONAL ENGINEER

PAUL TREVISAN

100136551

March 14th, 2017

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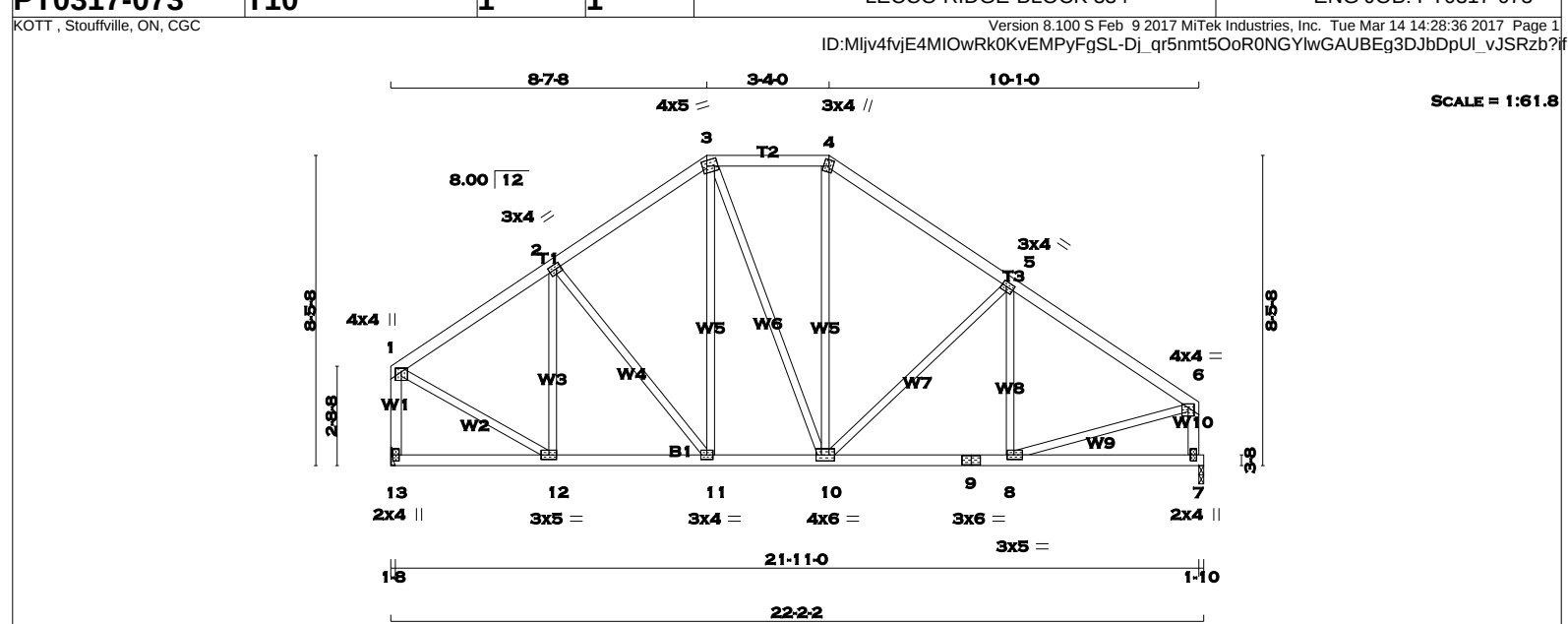
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READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



TOTAL WEIGHT = 105 lb
[M][F]

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
1 - 3	2x4	DRY	No.2
3 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
13 - 1	2x4	DRY	No.2
7 - 6	2x4	DRY	No.2
13 - 9	2x4	DRY	No.2
9 - 7	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
SPF			
DRY: SEASONED LUMBER.			

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW+p	MT20	4.0	4.0	1.25	2.00
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TTWW-m	MT20	4.0	5.0	1.75	1.50
4	TTW+m	MT20	3.0	4.0	2.00	1.25
5	TMVW-t	MT20	3.0	4.0	1.50	1.50
6	TMVW-p	MT20	4.0	4.0	1.25	2.00
7	BMV1+p	MT20	2.0	4.0		
8	BMVW-t	MT20	3.0	5.0	1.50	2.25
9	BS-t	MT20	3.0	6.0		
10	BMVW-t	MT20	4.0	6.0		
11	BMVW-t	MT20	3.0	4.0		
12	BMVW-t	MT20	3.0	5.0		
13	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS			
FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	UPLIFT
13	1045	0	0
7	1045	0	0

UNFACTORED REACTIONS							
1ST LCASE	MAX./MIN.	COMPONENT	REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
13	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0
7	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.79 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: (4)			
CHORDS	MEMB.	WEBS	
MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	
FR-TO	FROM TO	FR-TO	LENGTH
1-2	-857 / 0	-77.3	-77.3 0.19 (1)
2-3	-834 / 0	-77.3	-77.3 0.19 (1)
3-4	-704 / 0	-77.3	-77.3 0.12 (1)
4-5	-871 / 0	-77.3	-77.3 0.26 (1)
5-6	-1066 / 0	-77.3	-77.3 0.27 (1)
13-1	-1014 / 0	0.0	0.0 0.14 (1)
7-6	-1008 / 0	0.0	0.0 0.11 (1)
13-12	0 / 0	-17.5	-17.5 0.08 (4)
12-11	0 / 731	-17.5	-17.5 0.16 (1)
11-10	0 / 675	-17.5	-17.5 0.14 (1)
10-9	0 / 908	-17.5	-17.5 0.20 (1)
9-8	0 / 908	-17.5	-17.5 0.20 (1)
8-7	0 / 0	-17.5	-17.5 0.11 (4)

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 6.00/12

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 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.27 (5-6:1), BC=0.20 (8-10:1), WB=0.27 (5-10:1), SSI=0.16 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (6) (INPUT = 0.90)
JSI METAL= 0.31 (6) (INPUT = 1.00)



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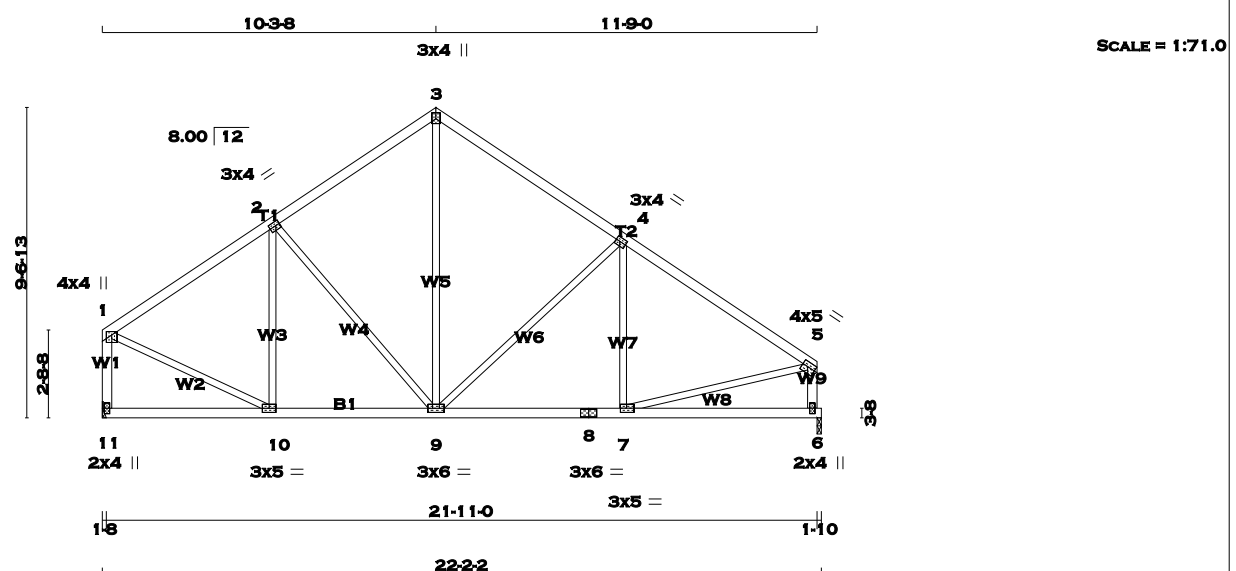
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KOTT, Stouffville, ON, CGC

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Tue Mar 14 14:28:36 2017 Page 1

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TOTAL WEIGHT = 2 X 97 = 195 lb
[M][F]

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
1 - 3	2x4	DRY	No.2		SPF
3 - 5	2x4	DRY	No.2		SPF
11 - 1	2x4	DRY	No.2		SPF
6 - 5	2x4	DRY	No.2		SPF
11 - 8	2x4	DRY	No.2		SPF
8 - 6	2x4	DRY	No.2		SPF
ALL WEBS	2x3	DRY	No.2		SPF
EXCEPT					
DRY: SEASONED LUMBER.					

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW+p	MT20	4.0	4.0	1.25	2.00
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TTW+p	MT20	3.0	4.0	2.25	1.50
4	TMVW-t	MT20	3.0	4.0	1.50	1.50
5	TMVW-t	MT20	4.0	5.0	1.75	Edge
6	BMV1+p	MT20	2.0	4.0		
7	BMVW-t	MT20	3.0	5.0	1.50	2.25
8	BS-t	MT20	3.0	6.0		
9	BMVW-t	MT20	3.0	6.0		
10	BMVW-t	MT20	3.0	5.0		
11	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
11	1045	0	1045	0	0
6	1045	0	1045	0	0

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	SNOW	LIVE	PERM.	LIVE	WIND	DEAD	SOIL
11	734	513 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0
6	734	513 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.63 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	FR-TO
1-2	-887 / 0	-77.3	-77.3 0.27 (1)	6.19	10-2	-246 / 12	0.15 (1)
2-3	-777 / 0	-77.3	-77.3 0.27 (1)	6.25	2-9	-208 / 0	0.25 (1)
3-4	-781 / 0	-77.3	-77.3 0.35 (1)	6.25	9-3	0 / 519	0.12 (1)
4-5	-1069 / 0	-77.3	-77.3 0.37 (1)	5.63	9-4	-397 / 0	0.51 (1)
11-1	-1007 / 0	0.0	0.0 0.14 (1)	7.80	7-4	-100 / 69	0.05 (1)
6-5	-1003 / 0	0.0	0.0 0.11 (1)	7.81	1-10	0 / 834	0.19 (1)
					7-5	0 / 939	0.21 (1)
11-10	0 / 0	-17.5	-17.5 0.11 (4)	10.00			
10-9	0 / 760	-17.5	-17.5 0.18 (1)	10.00			
9-8	0 / 914	-17.5	-17.5 0.22 (1)	10.00			
8-7	0 / 914	-17.5	-17.5 0.22 (1)	10.00			
7-6	0 / 0	-17.5	-17.5 0.15 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

(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 (0.73")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.37 (4-5:1), BC=0.22 (7-9:1), WB=0.51 (4-9:1), SSI=0.19 (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.

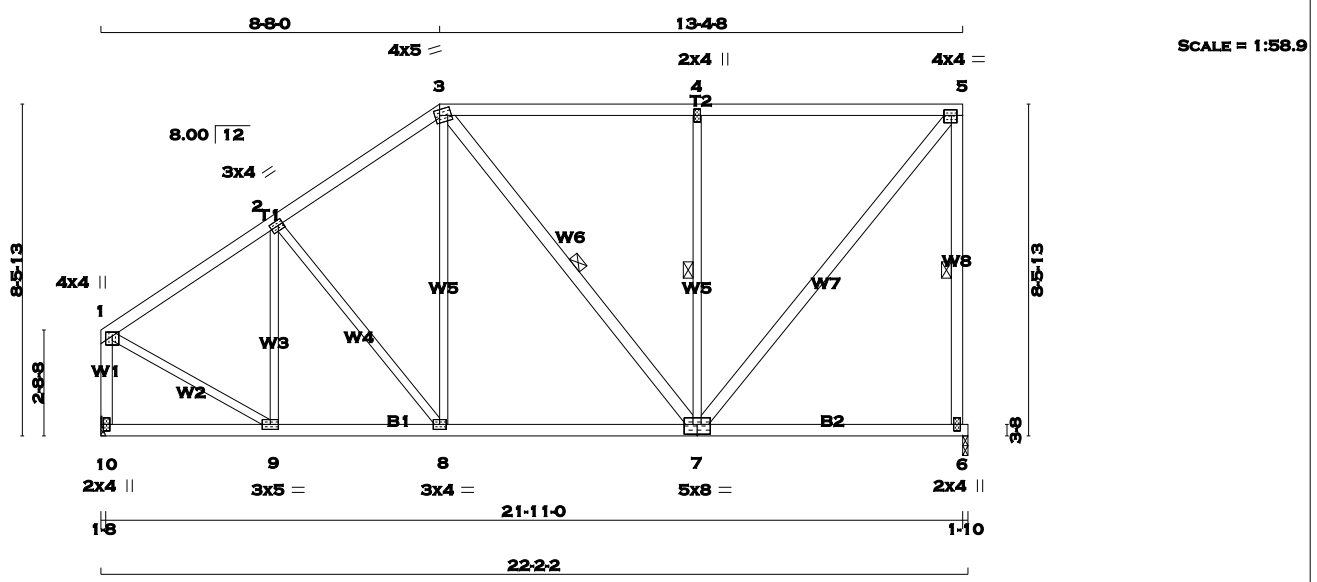
JSI GRIP= 0.88 (10) (INPUT = 0.90)
JSI METAL= 0.36 (5) (INPUT = 1.00)



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





TOTAL WEIGHT = 113 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
6 - 5	2x4	DRY	No.2	SPF
10 - 1	2x4	DRY	No.2	SPF
10 - 7	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
3 - 7	2x4	DRY	No.2	SPF
7 - 5	2x4	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	X
1	TMVW+p	MT20	4.0	4.0	1.25 2.00
2	TMVW-t	MT20	3.0	4.0	1.50 1.50
3	TTWW-m	MT20	4.0	5.0	1.75 1.50
4	TMW+w	MT20	2.0	4.0	
5	TMVW-t	MT20	4.0	4.0	1.75 1.75
6	BMV1+p	MT20	2.0	4.0	
7	BSWWW-l	MT20	5.0	8.0	3.00 4.00
8	BMVW-t	MT20	3.0	4.0	
9	BMVW-t	MT20	3.0	5.0	
10	BMV1+p	MT20	2.0	4.0	

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



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
6		1045	0	1045	0	0	1-10	1-10	
10		1045	0	1045	0	0	HANGER BY OTHERS		
MIN. SEAT SIZE: 1-8									

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT	REACTIONS			
6	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0
10	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.10 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 5-6. DBS = 14-0-0 . CBF = 87 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 3-7, 4-7. DBS = 20-0-0 . CBF = 80 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: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX. CSI (LC)
FR-TO		FROM TO			FR-TO				
1-2	-856 / 0	-77.3	-77.3	0.26 (1)	6.25	9-2	-313 / 0	0.15 (1)	
2-3	-836 / 0	-77.3	-77.3	0.26 (1)	6.25	2-8	-88 / 0	0.08 (1)	
3-4	-661 / 0	-77.3	-77.3	0.62 (1)	6.10	8-3	0 / 159	0.04 (4)	
4-5	-661 / 0	-77.3	-77.3	0.62 (1)	6.10	3-7	-26 / 0	0.01 (1)	
6-5	-998 / 0	0.0	0.0	0.33 (1)	6.25	7-4	-643 / 0	0.29 (1)	
10-1	-1012 / 0	0.0	0.0	0.14 (1)	7.78	7-5	0 / 1036	0.17 (1)	
						1-9	0 / 830	0.19 (1)	
10-9	0 / 0	-17.5	-17.5	0.07 (4)	10.00				
9-8	0 / 731	-17.5	-17.5	0.17 (1)	10.00				
8-7	0 / 678	-17.5	-17.5	0.25 (4)	10.00				
7-6	0 / 0	-17.5	-17.5	0.20 (4)	10.00				

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

SPACING = 24.0 IN./C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

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 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.62 (4-5:1) , BC=0.25 (7-8:4) , WB=0.29 (4-7:1) , SSI=0.25 (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

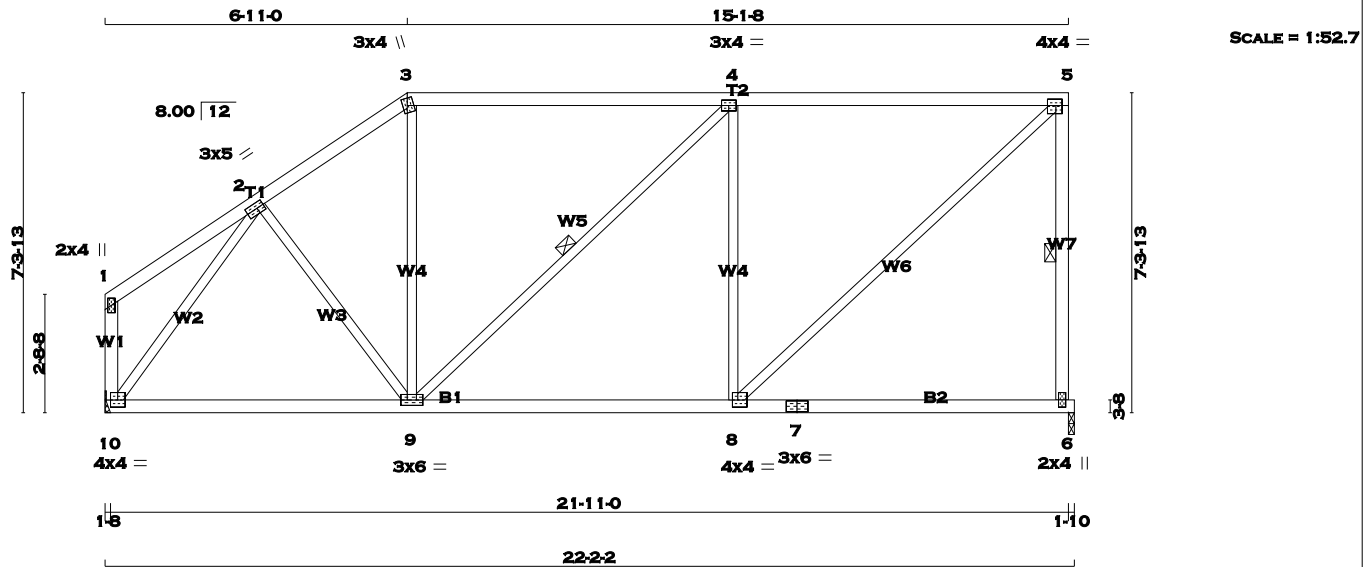
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (9) (INPUT = 0.90)
JSI METAL= 0.25 (5) (INPUT = 1.00)

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TOTAL WEIGHT = 98 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
6 - 5	2x4	DRY	No.2	SPF
10 - 1	2x4	DRY	No.2	SPF
10 - 7	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
1	TMV+p	MT20	2.0	4.0	
2	TMVW-t	MT20	3.0	5.0	1.50 2.00
3	TTW+m	MT20	3.0	4.0	2.00 1.25
4	TMVW-t	MT20	3.0	4.0	
5	TMVW-t	MT20	4.0	4.0	1.75 1.75
6	BMV1+p	MT20	2.0	4.0	
7	BS-t	MT20	3.0	6.0	
8	BMVW-t	MT20	4.0	4.0	2.00 1.50
9	BMVW-t	MT20	3.0	6.0	
10	BMVW1-t	MT20	4.0	4.0	

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
6	1045	0	1045	0	0	1-10	1-10		
10	1045	0	1045	0	0	HANGER BY OTHERS		MIN. SEAT SIZE: 1-8	

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS				
6	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0
10	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.99 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-6. DBS = 14-0-0 . CBF = 87 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-9. DBS = 20-0-0 . CBF = 20 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: (4)				
C H O R D S				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC2)
FR-TO		FROM TO	CSI (LC)	UNBRAC LENGTH
1-2	0 / 16	-77.3 -77.3	0.14 (1)	10.00
2-3	-883 / 0	-77.3 -77.3	0.15 (1)	6.25
3-4	-722 / 0	-77.3 -77.3	0.81 (1)	5.30
4-5	-835 / 0	-77.3 -77.3	0.83 (1)	4.99
6-5	-991 / 0	0.0 0.0	0.24 (1)	6.25
10-1	-105 / 0	0.0 0.0	0.01 (1)	7.81
10-9	0 / 658	-17.5 -17.5	0.25 (4)	10.00
9-8	0 / 835	-17.5 -17.5	0.30 (4)	10.00
8-7	0 / 0	-17.5 -17.5	0.24 (4)	10.00
7-6	0 / 0	-17.5 -17.5	0.24 (4)	10.00

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

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 (0.73")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.83 (4-5:1), BC=0.30 (8-9:4), WB=0.62 (2-10:1), SSI=0.29 (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.

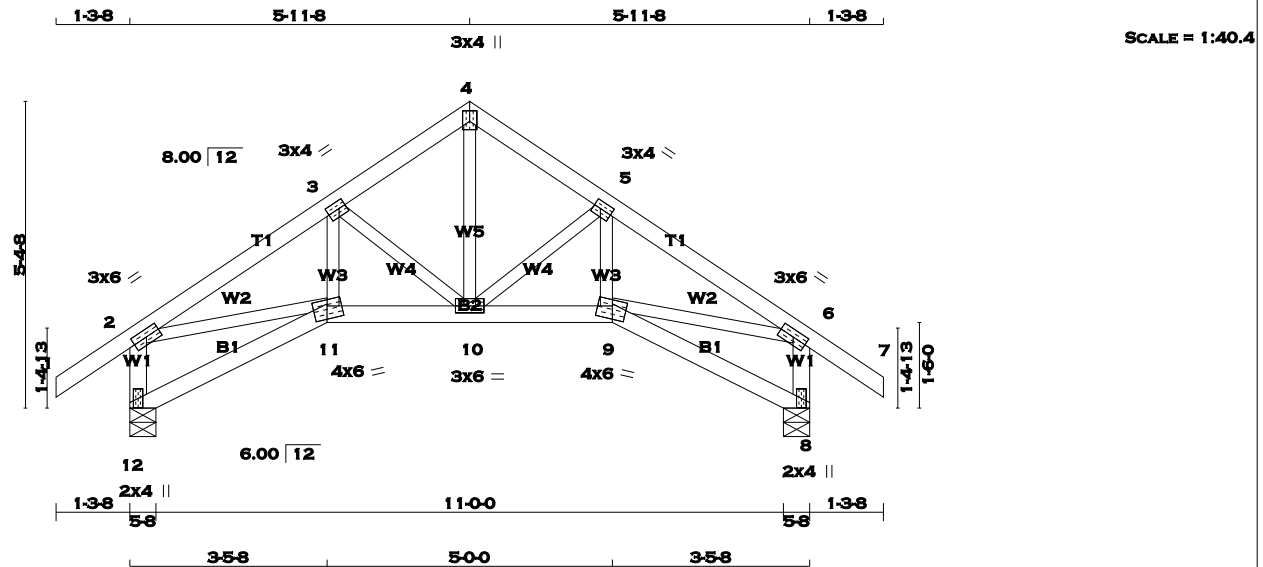
JSI GRIP= 0.88 (9) (INPUT = 0.90)
JSI METAL= 0.31 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 53 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2
4 - 7	2x4	DRY	No.2
12 - 2	2x4	DRY	No.2
8 - 6	2x4	DRY	No.2
12 - 11	2x4	DRY	No.2
11 - 9	2x4	DRY	No.2
9 - 8	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
SPF			
DRY: SEASONED LUMBER.			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	3.0	6.0	
3	TMVW-t	MT20	3.0	4.0	1.50 1.50
4	TTW+p	MT20	3.0	4.0	2.25 1.50
5	TMVW-t	MT20	3.0	4.0	1.50 1.50
6	TMVW-t	MT20	3.0	6.0	
8	BMV1+p	MT20	2.0	4.0	
9	BBWW-m	MT20	4.0	6.0	2.75 3.00
10	BBWWW-t	MT20	3.0	6.0	
11	BBWW-m	MT20	4.0	6.0	2.75 3.00
12	BMV1+p	MT20	2.0	4.0	

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
12		671	0	671	0	0	5-8	5-8	
8		671	0	671	0	0	5-8	5-8	

UNFACTORED REACTIONS							
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS			
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
12		469	341 / 0	0 / 0	0 / 0	0 / 0	127 / 0
8		469	341 / 0	0 / 0	0 / 0	0 / 0	127 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 12, 8

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

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

LOADING				TOTAL LOAD CASES: (4)			
CHORDS		MAX. FACTORED		MAX. FACTORED		WEBS	
		MEMB. FORCE (LBS)		VERT. LOAD LC1 MAX (PLF) CSI (LC)		MEMB. FORCE (LBS) MAX (PLF) CSI (LC)	
FR-TO				FROM TO		LENGTH FR-TO	
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	10-4	0 / 512
2-3	-914 / 0	-77.3	-77.3	0.12 (1)	6.25	10-5	-368 / 0
3-4	-590 / 0	-77.3	-77.3	0.08 (1)	6.25	9-5	0 / 146
4-5	-590 / 0	-77.3	-77.3	0.08 (1)	6.25	3-10	-368 / 0
5-6	-914 / 0	-77.3	-77.3	0.12 (1)	6.25	11-3	0 / 146
6-7	0 / 29	-77.3	-77.3	0.10 (1)	10.00	2-11	0 / 776
12-2	-641 / 0	0.0	0.0	0.07 (1)	7.81	9-6	0 / 776
8-6	-641 / 0	0.0	0.0	0.07 (1)	7.81		
12-11	0 / 0	-17.5	-17.5	0.06 (4)	10.00		
11-10	0 / 762	-17.5	-17.5	0.14 (1)	10.00		
10-9	0 / 762	-17.5	-17.5	0.14 (1)	10.00		
9-8	0 / 0	-17.5	-17.5	0.06 (4)	10.00		

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

(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 (0.40")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.40")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.12 (2-3:1) , BC=0.14 (10-11:1) , WB=0.17 (2-11:1) , SSI=0.10 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

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.

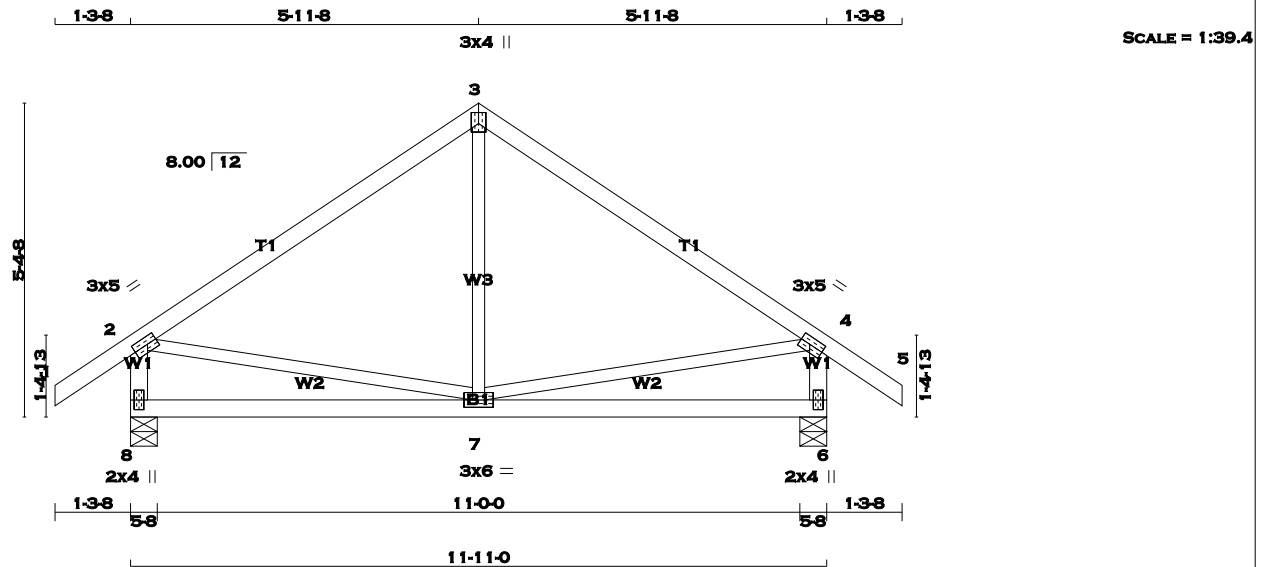
JSI GRIP= 0.80 (9) (INPUT = 0.90)
JSI METAL= 0.26 (2) (INPUT = 1.00)



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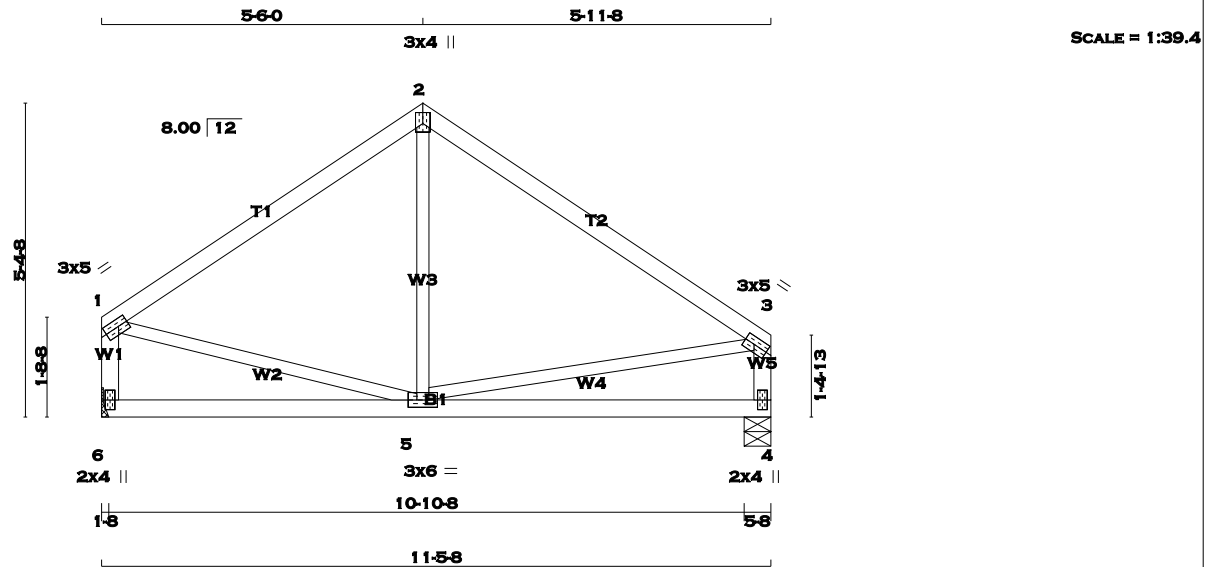
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 3 2x4 DRY No.2 SPF 3 - 5 2x4 DRY No.2 SPF 8 - 2 2x4 DRY No.2 SPF 6 - 4 2x4 DRY No.2 SPF 8 - 6 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED MAXIMUM FACTORED INPUT REQD GROSS REACTION GROSS REACTION BRG BRG JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX 8 671 0 671 0 0 5-8 5-8 6 671 0 671 0 0 5-8 5-8 UNFACTORED REACTIONS 1ST LCASE MAX/MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 8 469 341 / 0 0 / 0 0 / 0 127 / 0 0 / 0 6 469 341 / 0 0 / 0 0 / 0 127 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 6 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS WEBS MEMB. MAX. FACTORED FORCE VERT. LOAD LC1 MAX. MAX. MEMB. MAX. FACTORED FORCE MAX. (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC) FR-TO FROM TO 1-2 0 / 29 -77.3 -77.3 0.10 (1) 10.00 7-3 0 / 104 0.04 (4) 2-3 -418 / 0 -77.3 -77.3 0.35 (1) 6.25 2-7 0 / 353 0.08 (1) 3-4 -418 / 0 -77.3 -77.3 0.35 (1) 6.25 7-4 0 / 353 0.08 (1) 4-5 0 / 29 -77.3 -77.3 0.10 (1) 10.00 8-2 -631 / 0 0.0 0.0 0.07 (1) 7.81 6-4 -631 / 0 0.0 0.0 0.07 (1) 7.81 8-7 0 / 0 -17.5 -17.5 0.18 (4) 10.00 7-6 0 / 0 -17.5 -17.5 0.18 (4) 10.00				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.40") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01") ALLOWABLE DEFL.(TL)= L/360 (0.40") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03") CSI: TC=0.35 (3-4:1) , BC=0.18 (7-8:4) , WB=0.08 (2-7:1) , 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 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.76 (7) (INPUT = 0.90) JSI METAL= 0.18 (2) (INPUT = 1.00)			
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IN THE DESIGN OF THIS COMPONENT.





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

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
1 - 2	2x4	DRY	No.2		SPF
2 - 3	2x4	DRY	No.2		SPF
6 - 1	2x4	DRY	No.2		SPF
4 - 3	2x4	DRY	No.2		SPF
6 - 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	5.0	1.50	2.00
2	TTW+p	MT20	3.0	4.0	2.25	1.50
3	TMVW-t	MT20	3.0	5.0	1.50	2.00
4	BMV1+p	MT20	2.0	4.0		
5	BMVWW-t	MT20	3.0	6.0		
6	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX		
6	543	0		543	0	0		HANGER BY OTHERS	
4	543	0		543	0	0	5-8	5-8	

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS				
6	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	381	267 / 0	0 / 0	0 / 0	0 / 0	115 / 0	0 / 0
4	381	267 / 0	0 / 0	0 / 0	0 / 0	115 / 0	0 / 0

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

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

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

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS		FACTORED				WEBS			
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRAC	MEMB.	MAX. FORCE (LBS)	MAX. UNBRAC	MEMB.	MAX. FORCE (LBS)
FR-TO		FROM	TO	LENGTH	FR-TO			FR-TO	
1-2	-385 / 0	-77.3	-77.3	0.30 (1)	6.25	5-2	-16 / 94	0.03 (4)	
2-3	-386 / 0	-77.3	-77.3	0.35 (1)	6.25	1-5	0 / 331	0.07 (1)	
6-1	-510 / 0	0.0	0.0	0.05 (1)	7.81	5-3	0 / 326	0.07 (1)	
4-3	-500 / 0	0.0	0.0	0.05 (1)	7.81				
6-5	0 / 0	-17.5	-17.5	0.17 (4)	10.00				
5-4	0 / 0	-17.5	-17.5	0.17 (4)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, 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 (0.38")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.38")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.35 (2-3:1) , BC=0.17 (5-6:4) , WB=0.07 (1-5:1) , SSI=0.15 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

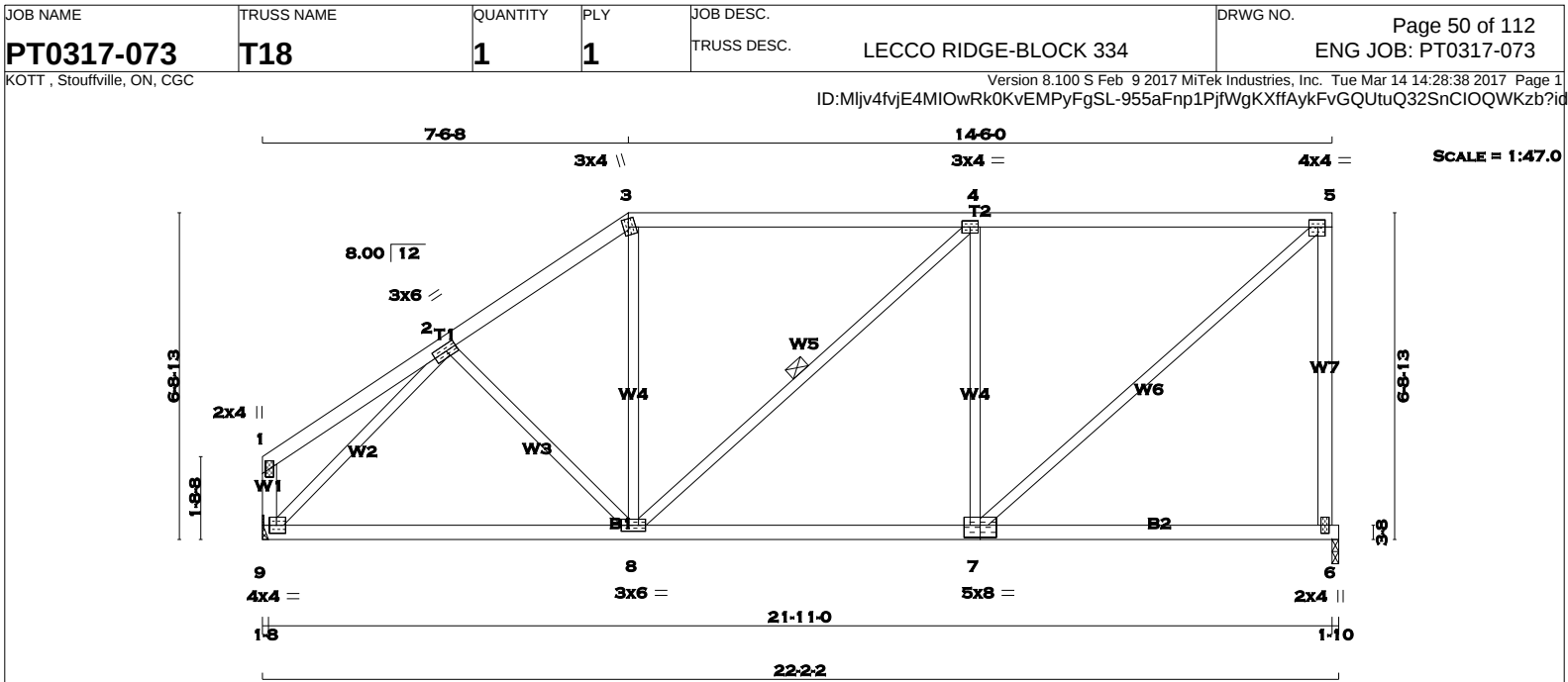
JSI GRIP= 0.70 (5) (INPUT = 0.90)
JSI METAL= 0.15 (3) (INPUT = 1.00)



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LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF			
3 - 5	2x4	DRY	No.2	SPF			
6 - 5	2x4	DRY	No.2	SPF			
9 - 1	2x4	DRY	No.2	SPF			
9 - 7	2x4	DRY	No.2	SPF			
7 - 6	2x4	DRY	No.2	SPF			
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF			

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMV+p	MT20	2.0	4.0		
2	TMVW-t	MT20	3.0	6.0	1.50	2.75
3	TTW+m	MT20	3.0	4.0	2.00	1.25
4	TMVW-t	MT20	3.0	4.0		
5	TMVW-t	MT20	4.0	4.0	1.75	1.75
6	BMV1+p	MT20	2.0	4.0		
7	BSWW-t	MT20	5.0	8.0	3.00	4.00
8	BMVW-t	MT20	3.0	6.0		
9	BMVW1-t	MT20	4.0	4.0	2.00	1.75

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	
6		1045	0	1045	0	0	1-10	1-10	
9		1045	0	1045	0	0	HANGER BY OTHERS		
MIN. SEAT SIZE: 1-8									

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	SNOW	LIVE	PERM.LIVE	WIND	DEAD
6	734	513 / 0	0 / 0	0 / 0	0 / 0	0 / 0	220 / 0
9	734	513 / 0	0 / 0	0 / 0	0 / 0	0 / 0	220 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.13 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 4-8. DBS = 20-0-0 . CBF = 11 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: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 18	-77.3 -77.3	0.17 (1)	10.00	2-8	-41 / 38	0.02 (1)
2-3	-1005 / 0	-77.3 -77.3	0.19 (1)	6.01	8-3	0 / 228	0.05 (1)
3-4	-823 / 0	-77.3 -77.3	0.75 (1)	5.27	8-4	-85 / 0	0.05 (1)
4-5	-885 / 0	-77.3 -77.3	0.76 (1)	5.13	7-4	-640 / 0	0.48 (1)
6-5	-992 / 0	0.0 0.0	0.95 (1)	7.81	7-5	0 / 1177	0.26 (1)
9-1	-113 / 0	0.0 0.0	0.01 (1)	7.81	9-2	-1220 / 0	0.58 (1)
9-8	0 / 848	-17.5 -17.5	0.28 (4)	10.00			
8-7	0 / 885	-17.5 -17.5	0.29 (4)	10.00			
7-6	0 / 0	-17.5 -17.5	0.21 (4)	10.00			

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

SPACING = 24.0 IN./C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

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 (0.73")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.95 (5-6:1), BC=0.29 (7-8:4), WB=0.58 (2-9:1), SSI=0.27 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

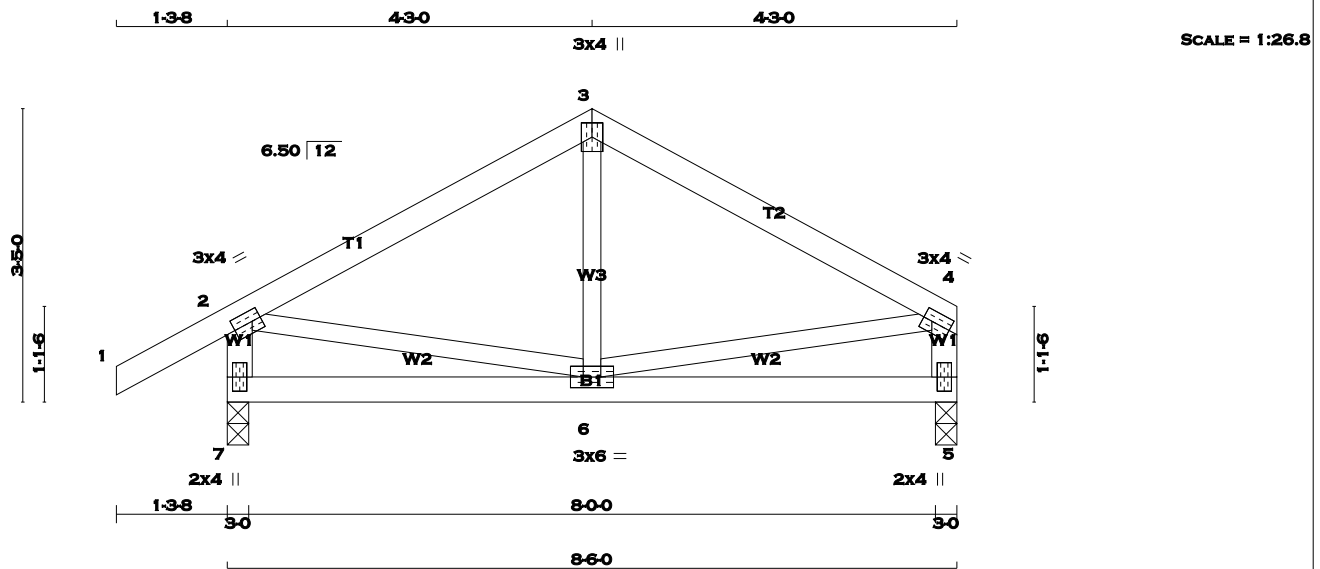
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (5) (INPUT = 0.90)
JSI METAL= 0.33 (5) (INPUT = 1.00)

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TOTAL WEIGHT = 3 X 33 = 99 lb
[M][F]

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.25
3	TTW+p	MT20	3.0	4.0		
4	TMVW-t	MT20	3.0	4.0	1.50	1.25
5	BMV1+p	MT20	2.0	4.0		
6	BMVWW-t	MT20	3.0	6.0		
7	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
7	508	0	508	0	0
5	403	0	403	0	0

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN. SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
7	354	261 / 0	0 / 0	0 / 0	0 / 0	93 / 0	0 / 0
5	283	198 / 0	0 / 0	0 / 0	0 / 0	85 / 0	0 / 0

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

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

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

LOADING							
TOTAL LOAD CASES: (4)							
CHORDS				WEBS			
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	MAX. FORCE (LBS)	FACTORED MAX (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 25	-77.3	-77.3 0.10 (1)	6-3	-18 / 67	0.02 (4)	
2-3	-326 / 0	-77.3	-77.3 0.18 (1)	2-6	0 / 292	0.07 (1)	
3-4	-326 / 0	-77.3	-77.3 0.18 (1)	6-4	0 / 292	0.07 (1)	
7-2	-479 / 0	0.0	0.0 0.05 (1)				
5-4	-374 / 0	0.0	0.0 0.04 (1)				
7-6	0 / 0	-17.5	-17.5 0.09 (4)				
6-5	0 / 0	-17.5	-17.5 0.09 (4)				

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 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.28")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.18 (2-3:1) , BC=0.09 (6-7:4) , WB=0.07 (2-6:1) , SSI=0.11 (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.

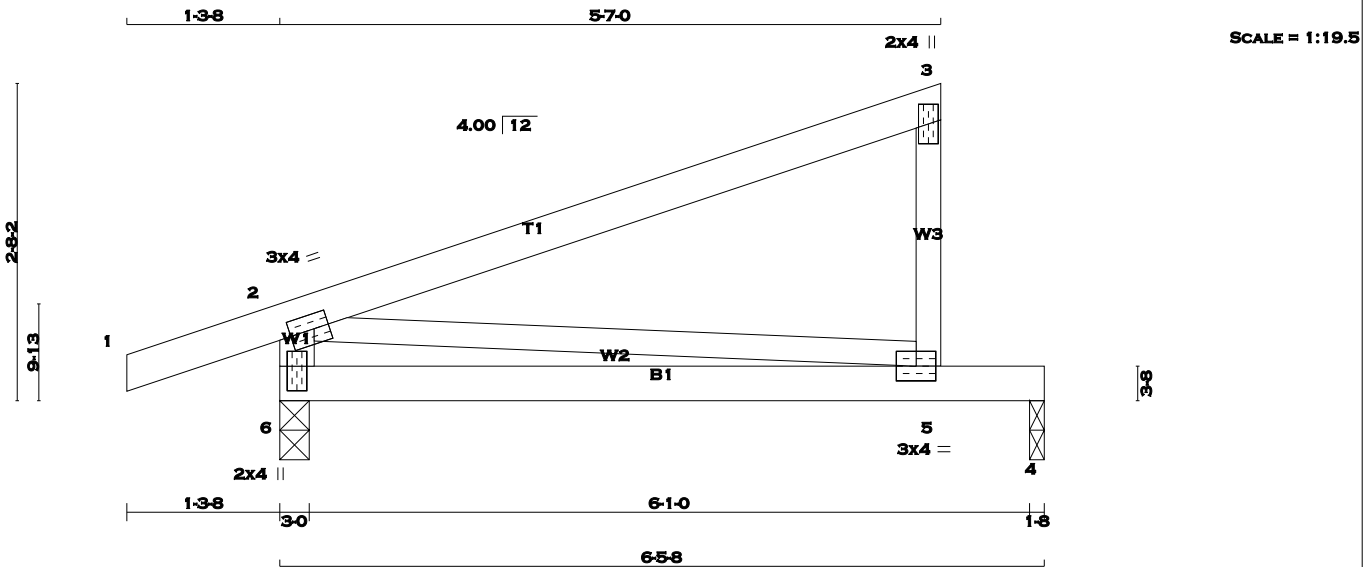
JSI GRIP= 0.70 (2) (INPUT = 0.90)
JSI METAL= 0.17 (4) (INPUT = 1.00)



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TOTAL WEIGHT = 15 X 22 = 329 lb

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TMV+p	MT20	2.0	4.0		
5	BMVW-t	MT20	3.0	4.0		
6	BMV1+p	MT20	2.0	4.0	2.50	1.00

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	DOWN	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX
6	405	0	0	405	0	0	3-0	3-0	
4	243	0	0	243	0	0	1-8	1-8	

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT	REACTIONS			
6	282	210 / 0	0 / 0	PERM.LIVE	WIND	DEAD	SOIL
4	172	112 / 0	0 / 0	0 / 0	0 / 0	60 / 0	0 / 0

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

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

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

LOADING				TOTAL LOAD CASES: (4)			
CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	FORCE (LBS)	MAX (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 16	-77.3 -77.3	0.10 (1)	2-5	0 / 0	0.00 (1)	
2-3	0 / 0	-77.3 -77.3	0.41 (1)				
5-3	-216 / 0	0.0 0.0	0.04 (1)				
6-2	-319 / 0	0.0 0.0	0.03 (1)				
6-5	0 / 0	-17.5 -17.5	0.29 (1)				
5-4	0 / 0	-17.5 -17.5	0.28 (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

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 (0.22")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.22")
CALCULATED VERT. DEFL.(TL) = L/ 444 (0.17")

CSI: TC=0.41 (2-3:1) , BC=0.29 (5-6:1) , WB=0.00 (2-5:1) , SSI=0.19 (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.

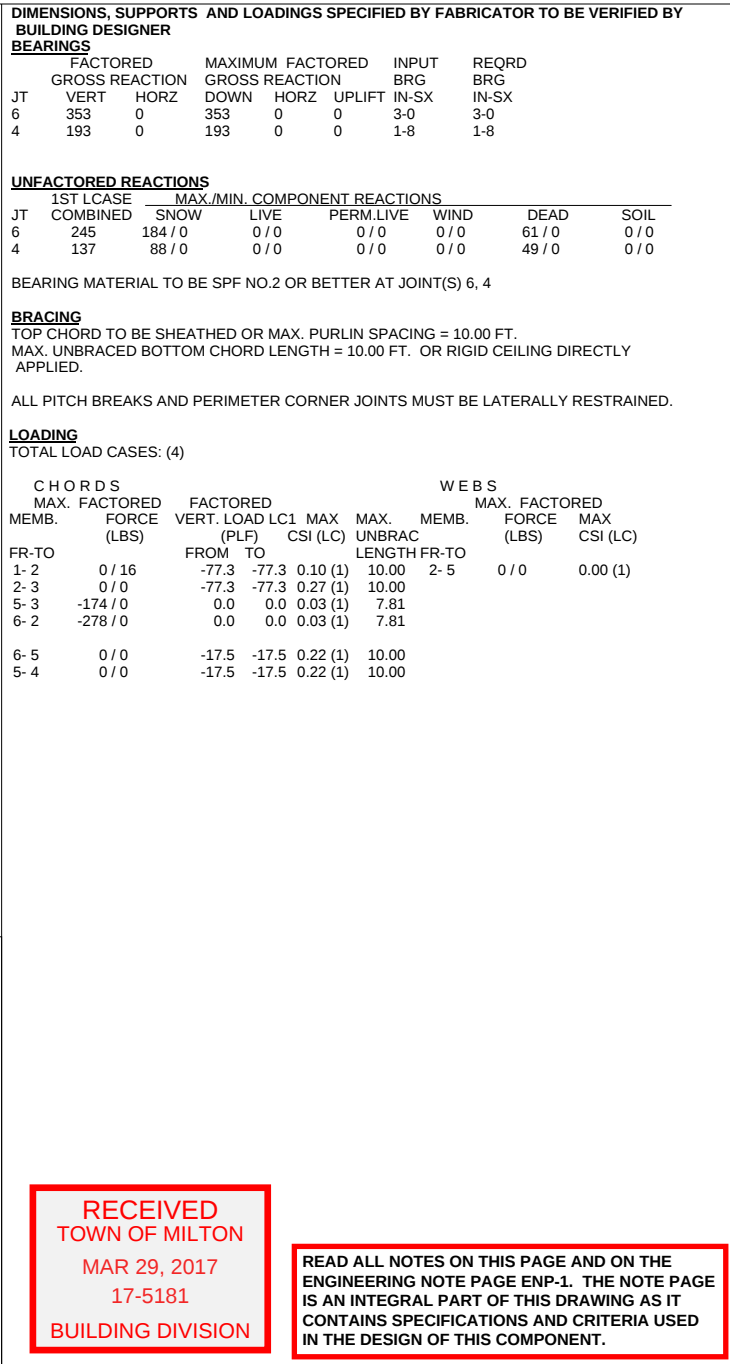
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JSI METAL= 0.06 (6) (INPUT = 1.00)



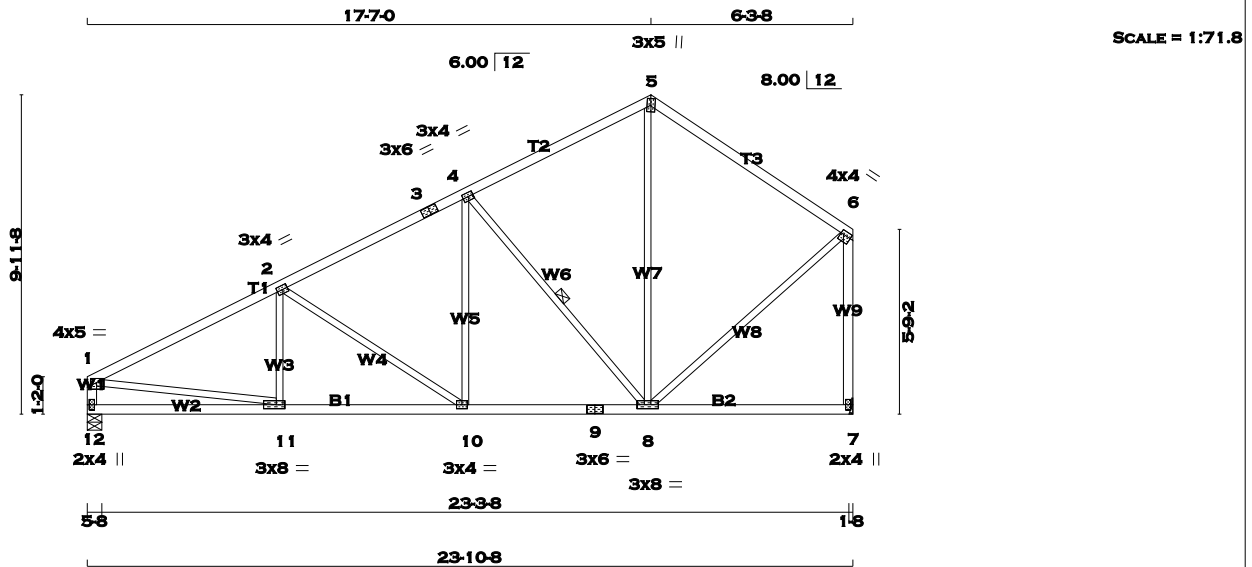
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<u>DESIGN CRITERIA</u>					
SPECIFIED LOADS:					
TOP CH.	LL =	23.3	PSF		
	DL =	3.0	PSF		
BOT CH.	LL =	0.0	PSF		
	DL =	7.0	PSF		
TOTAL LOAD	=	33.3	PSF		
<u>SPACING = 24.0 IN.C/C</u>					
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010					
THIS DESIGN COMPLIES WITH:					
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014					
- CSA 086-09					
- TPIC 2011					
(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD					
ALLOWABLE DEFL.(LL)= L/360 (0.19")					
CALCULATED VERT. DEFL. (LL) = L/ 999 (0.04")					
ALLOWABLE DEFL. (TL)= L/360 (0.19")					
CALCULATED VERT. DEFL. (TL) = L/ 709 (0.09")					
CSI: TC=0.27 (2-3:1) , BC=0.22 (5-6:1) , WB=0.00 (2-5:1) , SSI=0.15 (4-5:1)					
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10					
COMPANION LIVE LOAD FACTOR = 0.50					
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .					
NAIL VALUES					
PLATE	GRIP(DRY)		SHEAR		SECTION
	(PSI)	(PLI)	(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= 0.05 (6) (INPUT = 1.00)					



TOTAL WEIGHT = 105 lb
[M][F]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
3 - 5	2x4	DRY	No.2
5 - 6	2x4	DRY	No.2
12 - 1	2x4	DRY	No.2
7 - 6	2x4	DRY	No.2
12 - 9	2x4	DRY	No.2
9 - 7	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
SPF			
DRY: SEASONED LUMBER.			

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-p	MT20	4.0	5.0	1.50	2.25
2	TMVW-t	MT20	3.0	4.0	1.50	1.75
3	TS-t	MT20	3.0	6.0		
4	TMVW-t	MT20	3.0	4.0	1.50	1.75
5	TTW+m	MT20	3.0	5.0		
6	TMVW-t	MT20	4.0	4.0	1.50	1.00
7	BMV1+p	MT20	2.0	4.0		
8	BMVWV-t	MT20	3.0	8.0		
9	BS-t	MT20	3.0	6.0		
10	BMVW-t	MT20	3.0	4.0		
11	BMVW-t	MT20	3.0	8.0	1.50	3.25
12	BMV1+p	MT20	2.0	4.0		
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.						

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		UPLIFT	INPUT BRG	REQRD BRG		
	VERT	HORZ	DOWN	HORZ		IN-SX	IN-SX		
12	1132	0	1132	0	0	5-8	5-8		
7	1132	0	1132	0	0	HANGER BY OTHERS			
							MIN. SEAT SIZE: 1-8		
UNFACTORED REACTIONS									
JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS						
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
12	795	556 / 0	0 / 0	0 / 0	0 / 0	239 / 0	0 / 0		
7	795	556 / 0	0 / 0	0 / 0	0 / 0	239 / 0	0 / 0		

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.91 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 4-8. DBS = 18-0-0 . CBF = 85 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: (4)

C H O R D S					W E B S				
MEMB.	MAX. FACTORED	FACTORED			MEMB.	MAX. FACTORED	FACTORED		
	FORCE (LBS)	VERT. LOAD	LC1 MAX	CS1 (LC)		FORCE (LBS)	MAX CS1 (LC)		
FR-TO		(PLF)			UNBRAC				
		TO			LENGTH	FR-TO			
1-2	-1544 / 0	-77.3	-77.3	0.37 (1)	4.91	11-2	-85 / 73	0.03 (4)	
2-3	-1167 / 0	-77.3	-77.3	0.30 (1)	5.56	2-10	-427 / 0	0.39 (1)	
3-4	-1167 / 0	-77.3	-77.3	0.30 (1)	5.56	10-4	0 / 328	0.07 (1)	
4-5	-643 / 0	-77.3	-77.3	0.30 (1)	6.25	4-8	-753 / 0	0.40 (1)	
5-6	-668 / 0	-77.3	-77.3	0.40 (1)	6.25	8-5	0 / 226	0.05 (4)	
12-1	-1088 / 0	0.0	0.0	0.11 (1)	7.57	1-11	0 / 1413	0.32 (1)	
7-6	-1087 / 0	0.0	0.0	0.71 (1)	7.58	8-6	0 / 730	0.16 (1)	
12-11	0 / 0	-17.5	-17.5	0.15 (4)	10.00				
11-10	0 / 1398	-17.5	-17.5	0.29 (1)	10.00				
10-9	0 / 1043	-17.5	-17.5	0.26 (1)	10.00				
9-8	0 / 1043	-17.5	-17.5	0.26 (1)	10.00				
8-7	0 / 0	-17.5	-17.5	0.17 (4)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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
- TPC 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 (0.80")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.71 (6-7:1) , BC=0.29 (10-11:1) , WB=0.40 (4-8:1) , SSI=0.19 (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.

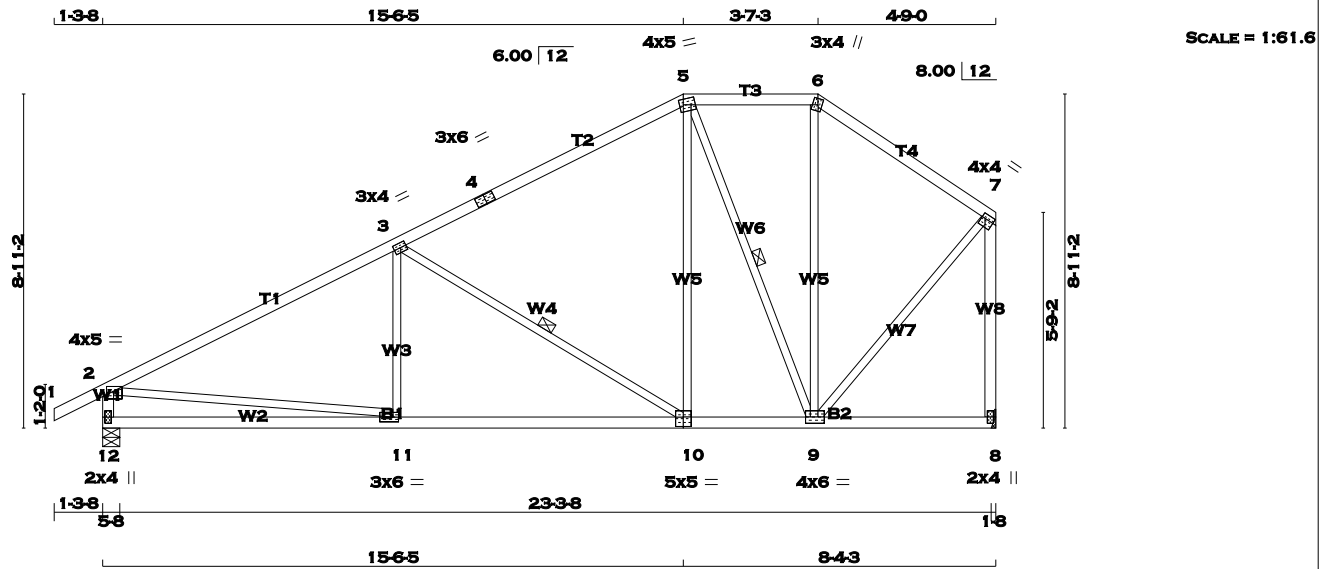
JSI GRIP= 0.87 (11) (INPUT = 0.90)
JSI METAL= 0.39 (1) (INPUT = 1.00)



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TOTAL WEIGHT = 110 lb
[M][F]

LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	1 - 4	2x4	DRY	No.2
4 - 5	2x4	DRY	No.2	4 - 5	2x4	DRY	No.2
5 - 6	2x4	DRY	No.2	5 - 6	2x4	DRY	No.2
6 - 7	2x4	DRY	No.2	6 - 7	2x4	DRY	No.2
12 - 2	2x4	DRY	No.2	12 - 2	2x4	DRY	No.2
8 - 7	2x4	DRY	No.2	8 - 7	2x4	DRY	No.2
12 - 10	2x4	DRY	No.2	12 - 10	2x4	DRY	No.2
10 - 8	2x4	DRY	No.2	10 - 8	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2	ALL WEBS	2x3	DRY	No.2
EXCEPT				EXCEPT			
DRY: SEASONED LUMBER.							

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-p	MT20	4.0	5.0	1.50	2.25
3	TMVW-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
5	TTWV-m	MT20	4.0	5.0	1.75	1.25
6	TTW-m	MT20	3.0	4.0	2.00	1.25
7	TMVW-t	MT20	4.0	4.0	1.50	1.00
8	BMV1+p	MT20	2.0	4.0		
9	BMVWV-t	MT20	4.0	6.0	2.00	1.50
10	BSWV-t	MT20	5.0	5.0	3.00	2.50
11	BMVW-t	MT20	3.0	6.0	1.50	1.75
12	BMV1+p	MT20	2.0	4.0		
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.						

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
<u>BEARINGS</u>									
		FACTORED		MAXIMUM FACTORED		INPUT	REQRD		
		GROSS REACTION		GROSS REACTION		BRG	BRG		
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
12		1237	0	1237	0	0	5-8	5-8	
8		1132	0	1132	0	0	HANGER BY OTHERS		
MIN. SEAT SIZE: 1-8									

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS	JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS
12	866	619 / 0	0 / 0	12	866	619 / 0	0 / 0
8	795	556 / 0	0 / 0	8	795	556 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.37 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 3-10. DBS = 18-0-0 . CBF = 89 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-9. DBS = 20-0-0 . CBF = 69 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: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)
FR-TO		FROM TO			FR-TO				
1-2	0 / 23	-77.3 -77.3	0.10 (1)	10.00	11-3	0 / 135	0.05 (4)		
2-3	-1519 / 0	-77.3 -77.3	0.72 (1)	4.37	3-10	-793 / 0	0.46 (1)		
3-4	-830 / 0	-77.3 -77.3	0.64 (1)	5.63	10-5	0 / 512	0.12 (1)		
4-5	-830 / 0	-77.3 -77.3	0.64 (1)	5.63	5-9	-556 / 0	0.33 (1)		
5-6	-510 / 0	-77.3 -77.3	0.13 (1)	6.25	9-6	0 / 67	0.02 (4)		
6-7	-614 / 0	-77.3 -77.3	0.23 (1)	6.25	2-11	0 / 1396	0.31 (1)		
12-2	-1182 / 0	0.0 0.0	0.12 (1)	7.34	9-7	0 / 766	0.17 (1)		
8-7	-1097 / 0	0.0 0.0	0.72 (1)	7.55					
12-11	0 / 0	-17.5 -17.5	0.27 (4)	10.00					
11-10	0 / 1388	-17.5 -17.5	0.37 (4)	10.00					
10-9	0 / 719	-17.5 -17.5	0.18 (1)	10.00					
9-8	0 / 0	-17.5 -17.5	0.09 (4)	10.00					

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

SPACING = 24.0 IN./C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

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 (0.80")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.14")

CSI: TC=0.72 (2-3:1) , BC=0.37 (10-11:4) , WB=0.46 (3-10:1) , SSI=0.26 (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.

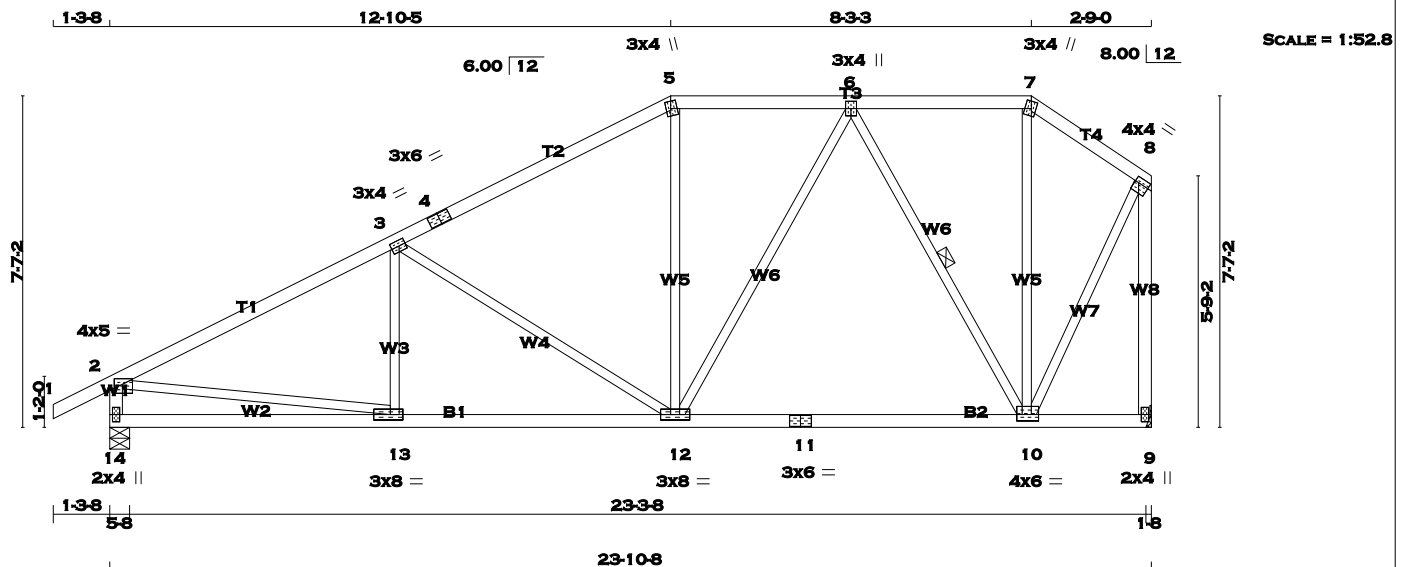
JSI GRIP= 0.90 (11) (INPUT = 0.90)
JSI METAL= 0.40 (2) (INPUT = 1.00)



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										TOTAL WEIGHT = 109 lb																																																												
LUMBER N. L. G. A. RULES CHORDS SIZE 1 - 4 2x4 DRY No.2 4 - 5 2x4 DRY No.2 5 - 7 2x4 DRY No.2 7 - 8 2x4 DRY No.2 14- 2 2x4 DRY No.2 9 - 8 2x4 DRY No.2 14- 11 2x4 DRY No.2 11- 9 2x4 DRY No.2 ALL WEBS 2x3 DRY No.2 EXCEPT DRY: SEASONED LUMBER.										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 DOWN</th><th>REQRD BRG</th></tr><tr><th>JT</th><th>VERT</th><th>HORZ</th><th>UPLIFT</th><th>IN-SX</th></tr><tr><td>14</td><td>1237</td><td>0</td><td>1237</td><td>0</td></tr><tr><td>9</td><td>1132</td><td>0</td><td>1132</td><td>0</td></tr></table> HANGER BY OTHERS MIN. SEAT SIZE: 1-8 UNFACTORED REACTIONS <table><tr><th></th><th>1ST LCASE COMBINED</th><th colspan="5">MAX./MIN. COMPONENT REACTIONS</th></tr><tr><th>JT</th><th></th><th>SNOW</th><th>LIVE</th><th>PERM.LIVE</th><th>WIND</th><th>DEAD</th><th>SOIL</th></tr><tr><td>14</td><td>866</td><td>619 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>247 / 0</td><td>0 / 0</td></tr><tr><td>9</td><td>795</td><td>556 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>239 / 0</td><td>0 / 0</td></tr></table>											FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT DOWN	REQRD BRG	JT	VERT	HORZ	UPLIFT	IN-SX	14	1237	0	1237	0	9	1132	0	1132	0		1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					JT		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	14	866	619 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0	9	795	556 / 0	0 / 0	0 / 0	0 / 0	239 / 0	0 / 0
	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT DOWN	REQRD BRG																																																																		
JT	VERT	HORZ	UPLIFT	IN-SX																																																																		
14	1237	0	1237	0																																																																		
9	1132	0	1132	0																																																																		
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JT		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL																																																															
14	866	619 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0																																																															
9	795	556 / 0	0 / 0	0 / 0	0 / 0	239 / 0	0 / 0																																																															
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 6.00/12																																																																						

PLATES (table is in inches) <table><tr><th>JT</th><th>TYPE</th><th>PLATES</th><th>W</th><th>LEN</th><th>Y</th><th>X</th></tr><tr><td>2</td><td>TMVW-p</td><td>MT20</td><td>4.0</td><td>5.0</td><td>1.50</td><td>2.25</td></tr><tr><td>3</td><td>TMWW-t</td><td>MT20</td><td>3.0</td><td>4.0</td><td>1.50</td><td>1.75</td></tr><tr><td>4</td><td>TS-t</td><td>MT20</td><td>3.0</td><td>6.0</td><td></td><td></td></tr><tr><td>5</td><td>TTW+m</td><td>MT20</td><td>3.0</td><td>4.0</td><td>2.00</td><td>1.25</td></tr><tr><td>6</td><td>TMWW+t</td><td>MT20</td><td>3.0</td><td>4.0</td><td></td><td></td></tr><tr><td>7</td><td>TTW+m</td><td>MT20</td><td>3.0</td><td>4.0</td><td>2.00</td><td>1.25</td></tr><tr><td>8</td><td>TMVW-t</td><td>MT20</td><td>4.0</td><td>4.0</td><td>1.50</td><td>1.00</td></tr><tr><td>9</td><td>BMV1+p</td><td>MT20</td><td>2.0</td><td>4.0</td><td></td><td></td></tr><tr><td>10</td><td>BMWWV-t</td><td>MT20</td><td>4.0</td><td>6.0</td><td>1.75</td><td>1.50</td></tr><tr><td>11</td><td>BS-t</td><td>MT20</td><td>3.0</td><td>6.0</td><td></td><td></td></tr><tr><td>12</td><td>BMWWV-t</td><td>MT20</td><td>3.0</td><td>8.0</td><td></td><td></td></tr><tr><td>13</td><td>BMVW-t</td><td>MT20</td><td>3.0</td><td>8.0</td><td>1.50</td><td>3.50</td></tr><tr><td>14</td><td>BMV1+p</td><td>MT20</td><td>2.0</td><td>4.0</td><td></td><td></td></tr></table> A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.							JT	TYPE	PLATES	W	LEN	Y	X	2	TMVW-p	MT20	4.0	5.0	1.50	2.25	3	TMWW-t	MT20	3.0	4.0	1.50	1.75	4	TS-t	MT20	3.0	6.0			5	TTW+m	MT20	3.0	4.0	2.00	1.25	6	TMWW+t	MT20	3.0	4.0			7	TTW+m	MT20	3.0	4.0	2.00	1.25	8	TMVW-t	MT20	4.0	4.0	1.50	1.00	9	BMV1+p	MT20	2.0	4.0			10	BMWWV-t	MT20	4.0	6.0	1.75	1.50	11	BS-t	MT20	3.0	6.0			12	BMWWV-t	MT20	3.0	8.0			13	BMVW-t	MT20	3.0	8.0	1.50	3.50	14	BMV1+p	MT20	2.0	4.0			BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 14 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.76 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 6-10. DBS = 18-0-0 . CBF = 87 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: (4)							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 (0.80") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05") ALLOWABLE DEFL.(TL)= L/360 (0.80") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.12") CSI: TC=0.74 (8-9:1) , BC=0.34 (12-13:1) , WB=0.68 (3-12:1) , SSI=0.22 (2-3:1) DOL LUMBER=1.00 NAIL =1.00 L.S BFND=1.10						
JT	TYPE	PLATES	W	LEN	Y	X																																																																																																																
2	TMVW-p	MT20	4.0	5.0	1.50	2.25																																																																																																																
3	TMWW-t	MT20	3.0	4.0	1.50	1.75																																																																																																																
4	TS-t	MT20	3.0	6.0																																																																																																																		
5	TTW+m	MT20	3.0	4.0	2.00	1.25																																																																																																																
6	TMWW+t	MT20	3.0	4.0																																																																																																																		
7	TTW+m	MT20	3.0	4.0	2.00	1.25																																																																																																																
8	TMVW-t	MT20	4.0	4.0	1.50	1.00																																																																																																																
9	BMV1+p	MT20	2.0	4.0																																																																																																																		
10	BMWWV-t	MT20	4.0	6.0	1.75	1.50																																																																																																																
11	BS-t	MT20	3.0	6.0																																																																																																																		
12	BMWWV-t	MT20	3.0	8.0																																																																																																																		
13	BMVW-t	MT20	3.0	8.0	1.50	3.50																																																																																																																
14	BMV1+p	MT20	2.0	4.0																																																																																																																		



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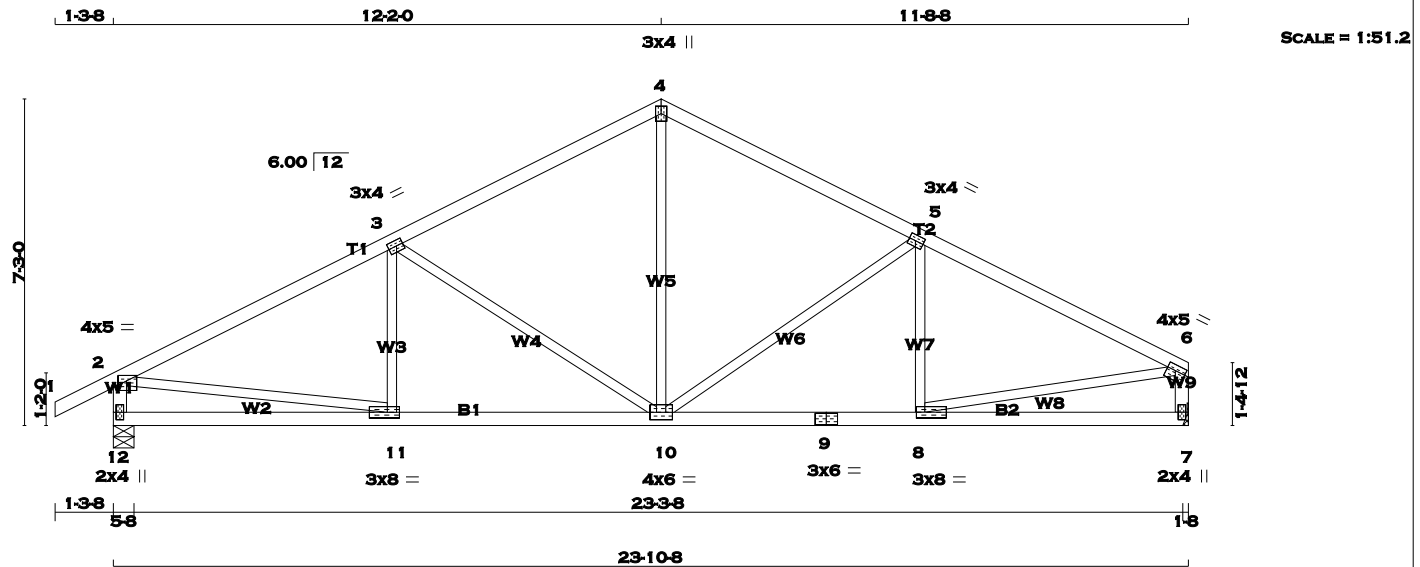
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17-5181

BUILDING DIVISION

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LUMBER				DESCR.	
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
1 - 4	2x4	DRY	No.2	SPF	
4 - 6	2x4	DRY	No.2	SPF	
12 - 2	2x4	DRY	No.2	SPF	
7 - 6	2x4	DRY	No.2	SPF	
12 - 9	2x4	DRY	No.2	SPF	
9 - 7	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
2	TMVW-p	MT20	4.0	5.0	1.50	2.25
3	TMVW-t	MT20	3.0	4.0	1.50	1.75
4	TTW+p	MT20	3.0	4.0		
5	TMVW-t	MT20	3.0	4.0	1.50	1.75
6	TMVW-t	MT20	4.0	5.0	1.50	2.25
7	BMV1+p	MT20	2.0	4.0		
8	BMVW-t	MT20	3.0	8.0	1.50	2.25
9	BS-t	MT20	3.0	6.0		
10	BMVW-t	MT20	4.0	6.0		
11	BMVW-t	MT20	3.0	8.0	1.50	3.25
12	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
12	1237	0	1237	0	0
7	1132	0	1132	0	0

HANGER BY OTHERS
MIN. SEAT SIZE: 1-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS	PERM.LIVE	WIND	DEAD	SOIL
12	866	619 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0
7	795	556 / 0	0 / 0	0 / 0	0 / 0	239 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.83 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED LC1 (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 (LC)
FR-TO		FROM	TO		FR-TO		
1-2	0 / 23	-77.3	-77.3 0.10 (1)	10.00	11-3	-80 / 78	0.03 (4)
2-3	-1555 / 0	-77.3	-77.3 0.42 (1)	4.83	3-10	-519 / 0	0.51 (1)
3-4	-1121 / 0	-77.3	-77.3 0.38 (1)	5.51	10-4	0 / 638	0.14 (1)
4-5	-1120 / 0	-77.3	-77.3 0.36 (1)	5.56	10-5	-434 / 0	0.41 (1)
5-6	-1468 / 0	-77.3	-77.3 0.38 (1)	4.99	8-5	-133 / 58	0.04 (1)
12-2	-1191 / 0	0.0	0.0 0.12 (1)	7.32	2-11	0 / 1426	0.32 (1)
7-6	-1088 / 0	0.0	0.0 0.11 (1)	7.58	8-6	0 / 1357	0.31 (1)
12-11	0 / 0	-17.5	-17.5 0.15 (4)	10.00			
11-10	0 / 1413	-17.5	-17.5 0.30 (1)	10.00			
10-9	0 / 1334	-17.5	-17.5 0.28 (1)	10.00			
9-8	0 / 1334	-17.5	-17.5 0.28 (1)	10.00			
8-7	0 / 0	-17.5	-17.5 0.14 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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 (0.80")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.42 (2-3:1), BC=0.30 (10-11:1), WB=0.51 (3-10:1), SSI=0.21 (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.

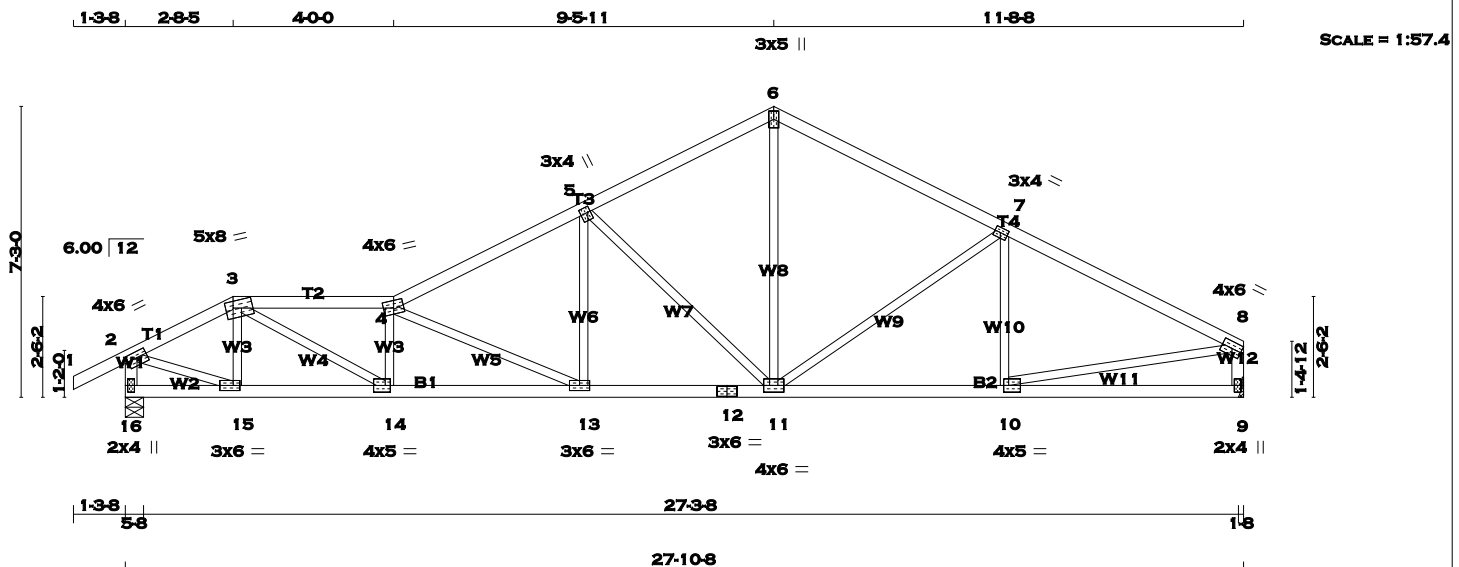
JSI GRIP= 0.89 (8) (INPUT = 0.90)
JSI METAL= 0.47 (6) (INPUT = 1.00)



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





TOTAL WEIGHT = 111 lb
[M][F]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
3 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
6 - 8	2x4	DRY	No.2
16 - 2	2x4	DRY	No.2
9 - 8	2x4	DRY	No.2
16 - 12	2x4	DRY	No.2
12 - 9	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			SPF
DRY: SEASONED LUMBER.			

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.75	3.00
3	TTWW-m	MT20	5.0	8.0	2.00	2.25
4	TTWW-m	MT20	4.0	6.0	2.25	3.00
5	TMWW-t	MT20	3.0	4.0	1.75	0.75
6	TTW+p	MT20	3.0	5.0		
7	TMWW-t	MT20	3.0	4.0	1.50	1.75
8	TMVW-t	MT20	4.0	6.0		Edge
9	BMV1+p	MT20	2.0	4.0		
10	BMWW-t	MT20	4.0	5.0	2.00	1.50
11	BMWW-t	MT20	4.0	6.0		
12	BS-t	MT20	3.0	6.0		
13	BMWW-t	MT20	3.0	6.0		
14	BMWW-t	MT20	4.0	5.0	2.00	1.50
15	BMWW-t	MT20	3.0	6.0	1.50	2.00
16	BMV1+p	MT20	2.0	4.0		
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.						
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.						

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX		
16		1427	0	1427	0	0	5-8	5-8	
9		1322	0	1322	0	0	HANGER BY OTHERS		
MIN. SEAT SIZE: 1-8									
UNFACTORED REACTIONS									
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
16		999	712 / 0	0 / 0	0 / 0	0 / 0	287 / 0	0 / 0	
9		928	649 / 0	0 / 0	0 / 0	0 / 0	279 / 0	0 / 0	

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.83 FT.									
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.									
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.									
LOADING									
TOTAL LOAD CASES: (4)									
		CHORDS			WEBS				
		MAX. FACTORED	FACTORED		MAX. FACTORED				
MEMB.		FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO			FROM	TO	LENGTH	FR-TO			
1-2		0 / 23	-77.3	-77.3	0.10 (1)	10.00	15-3	-376 / 0	0.06 (1)
2-3		-1662 / 0	-77.3	-77.3	0.10 (1)	5.07	3-14	0 / 1749	0.39 (1)
3-4		-2988 / 0	-77.3	-77.3	0.26 (1)	3.83	14-4	-814 / 0	0.13 (1)
4-5		-2216 / 0	-77.3	-77.3	0.29 (1)	4.34	4-13	-1132 / 0	0.53 (1)
5-6		-1472 / 0	-77.3	-77.3	0.24 (1)	5.15	13-5	0 / 572	0.13 (1)
6-7		-1477 / 0	-77.3	-77.3	0.37 (1)	4.99	5-11	-975 / 0	0.77 (1)
7-8		-1778 / 0	-77.3	-77.3	0.40 (1)	4.61	11-6	0 / 991	0.22 (1)
16-2		-1412 / 0	0.0	0.0	0.14 (1)	6.86	11-7	-383 / 0	0.36 (1)
9-8		-1278 / 0	0.0	0.0	0.13 (1)	7.13	10-7	-182 / 44	0.05 (1)
							2-15	0 / 1553	0.35 (1)
							10-8	0 / 1638	0.37 (1)
16-15		0 / 0	-17.5	-17.5	0.04 (4)	10.00			
15-14		0 / 1467	-17.5	-17.5	0.28 (1)	10.00			
14-13		0 / 3027	-17.5	-17.5	0.56 (1)	10.00			
13-12		0 / 2000	-17.5	-17.5	0.38 (1)	10.00			
12-11		0 / 2000	-17.5	-17.5	0.38 (1)	10.00			
11-10		0 / 1611	-17.5	-17.5	0.32 (1)	10.00			
10-9		0 / 0	-17.5	-17.5	0.14 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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 (0.93")

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.14")

ALLOWABLE DEFL.(TL)= L/360 (0.93")

CALCULATED VERT. DEFL.(TL) = L/ 999 (0.26")

CSI: TC=0.40 (7-8:1), BC=0.56 (13-14:1), WB=0.77 (5-11:1), SSI=0.20 (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 (PSI)	SECTION (PLI)
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (10) (INPUT = 0.90)

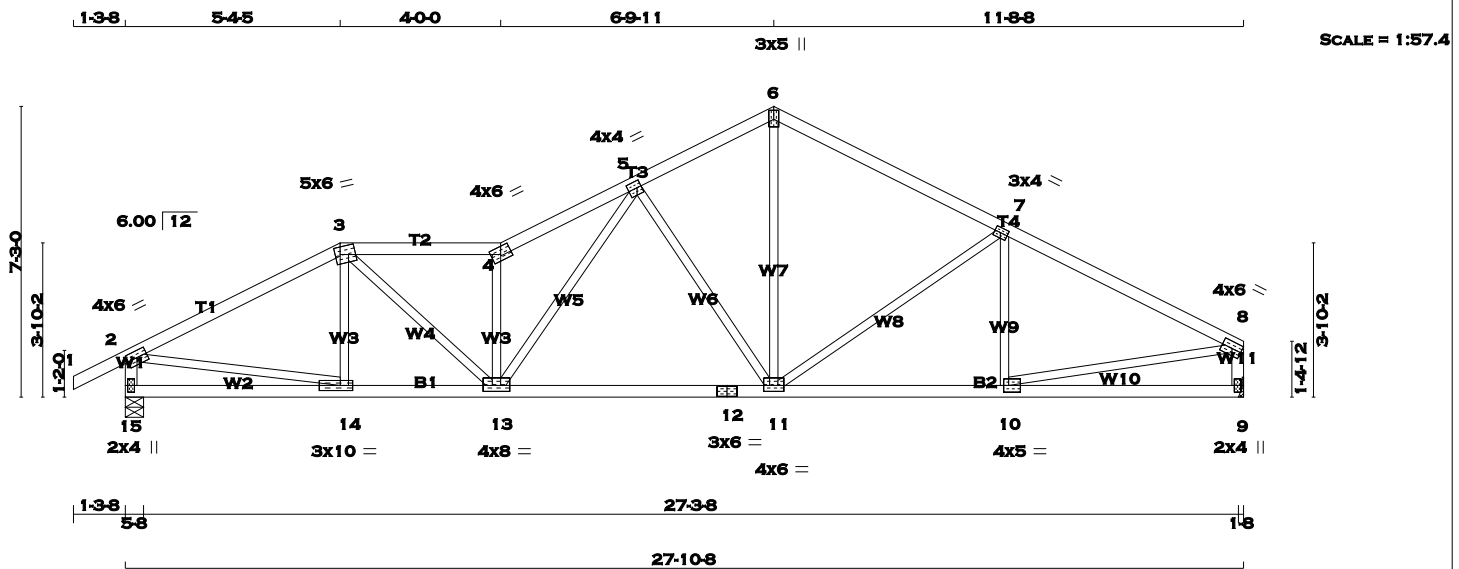
JSI METAL= 0.49 (12) (INPUT = 1.00)



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TOTAL WEIGHT = 112 lb
[M][F]

LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	1 - 3	2x4	DRY	No.2
3 - 4	2x4	DRY	No.2	3 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2	4 - 6	2x4	DRY	No.2
6 - 8	2x4	DRY	No.2	6 - 8	2x4	DRY	No.2
15 - 2	2x4	DRY	No.2	15 - 2	2x4	DRY	No.2
9 - 8	2x4	DRY	No.2	9 - 8	2x4	DRY	No.2
15 - 12	2x4	DRY	No.2	15 - 12	2x4	DRY	No.2
12 - 9	2x4	DRY	No.2	12 - 9	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2	ALL WEBS	2x3	DRY	No.2
EXCEPT				EXCEPT			
DRY: SEASONED LUMBER.							

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	2.00	3.00
3	TTWW-m	MT20	5.0	6.0	2.25	1.50
4	TTW-h	MT20	4.0	6.0	2.25	3.25
5	TMWW-t	MT20	4.0	4.0	2.00	1.25
6	TTW+p	MT20	3.0	5.0	2.75	1.50
7	TMWW-t	MT20	3.0	4.0	1.50	1.75
8	TMVW-t	MT20	4.0	6.0		Edge
9	BMV1+p	MT20	2.0	4.0		
10	BMWW-t	MT20	4.0	5.0	2.00	1.50
11	BMWWW-t	MT20	4.0	6.0	1.75	3.00
12	BS-t	MT20	3.0	6.0		
13	BMWWW-t	MT20	4.0	8.0	1.75	4.00
14	BMWW-t	MT20	3.0	10.0	1.50	3.75
15	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	
15		1427	0	1427	0	0	5-8	5-8	
9		1322	0	1322	0	0	HANGER BY OTHERS		
MIN. SEAT SIZE: 1-8									

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	LIVE	PERM.	LIVE	WIND	DEAD
15	999	712 / 0	0 / 0	0 / 0	0 / 0	0 / 0	287 / 0
9	928	649 / 0	0 / 0	0 / 0	0 / 0	0 / 0	279 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.14 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS									
MEMB. FORCE (LBS)									
FR-TO	1-2	2-3	3-4	4-5	5-6	6-7	7-8	15-2	9-8
0 / 23	-1823 / 0	-2306 / 0	-2608 / 0	-1472 / 0	-1482 / 0	-1776 / 0	-1385 / 0	-1276 / 0	
-77.3	-77.3	-77.3	-77.3	-77.3	-77.3	-77.3	0.0	0.0	
0.10 (1)	0.34 (1)	0.22 (1)	0.19 (1)	0.14 (1)	0.37 (1)	0.40 (1)	0.14 (1)	0.13 (1)	
10.00	4.63	4.33	4.14	5.27	4.98	4.61	6.91	7.13	
14-3	13-4	13-5	5-11	11-6	11-7	10-7	2-14	10-8	
-165 / 21	0 / 922	-1423 / 0	0 / 1065	-829 / 0	0 / 1035	-375 / 0	-190 / 37	0 / 1649	0 / 1636
0.04 (1)	0.21 (1)	0.33 (1)	0.24 (1)	0.57 (1)	0.23 (1)	0.35 (1)	0.05 (1)	0.37 (1)	0.37 (1)
15-14	14-13	13-12	12-11	11-10	10-9				
0 / 0	0 / 1624	0 / 1755	0 / 1755	0 / 1610	0 / 0				
-17.5	-17.5	-17.5	-17.5	-17.5	-17.5				
0.11 (4)	0.31 (1)	0.38 (1)	0.38 (1)	0.36 (1)	0.13 (4)				
10.00	10.00	10.00	10.00	10.00	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 ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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 (0.93")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (0.93")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.24")

CSI: TC=0.40 (7-8:1), BC=0.38 (11-13:1), WB=0.57 (5-11:1), SSI=0.20 (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)
				MAX MIN	MAX MIN
MT20	618	354	1667	822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

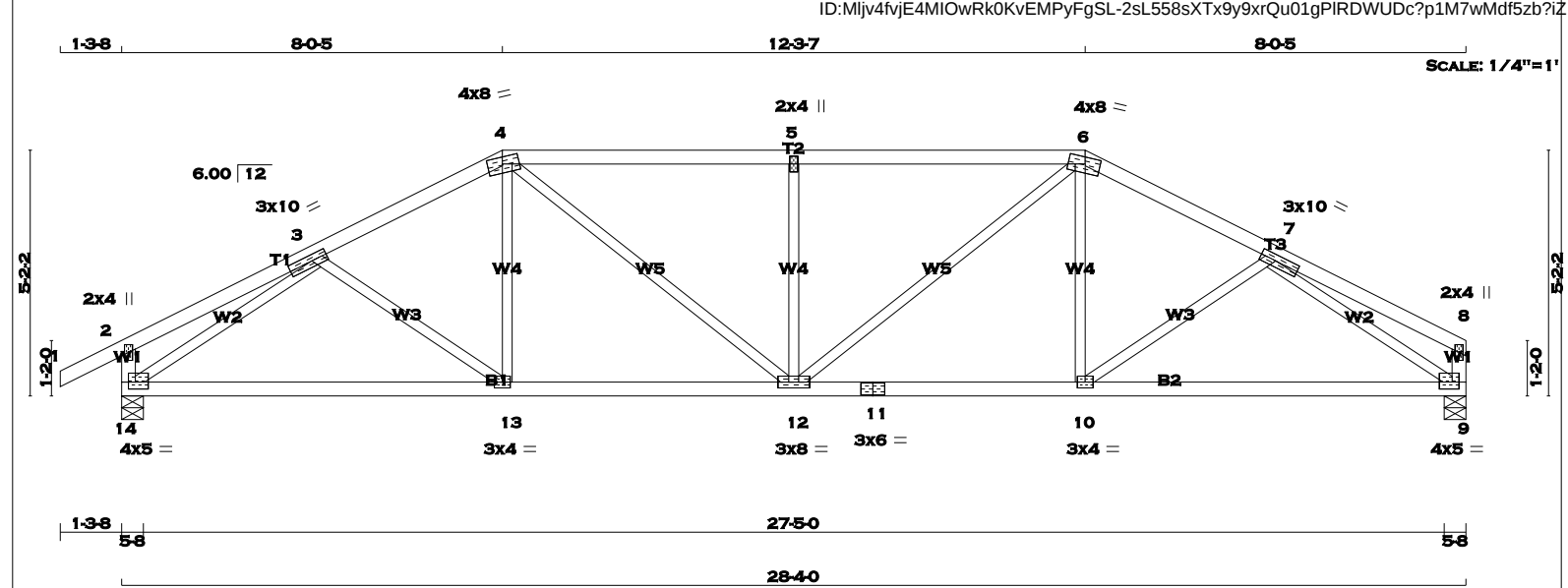
JSI GRIP= 0.89 (10) (INPUT = 0.90)
JSI METAL= 0.52 (4) (INPUT = 1.00)



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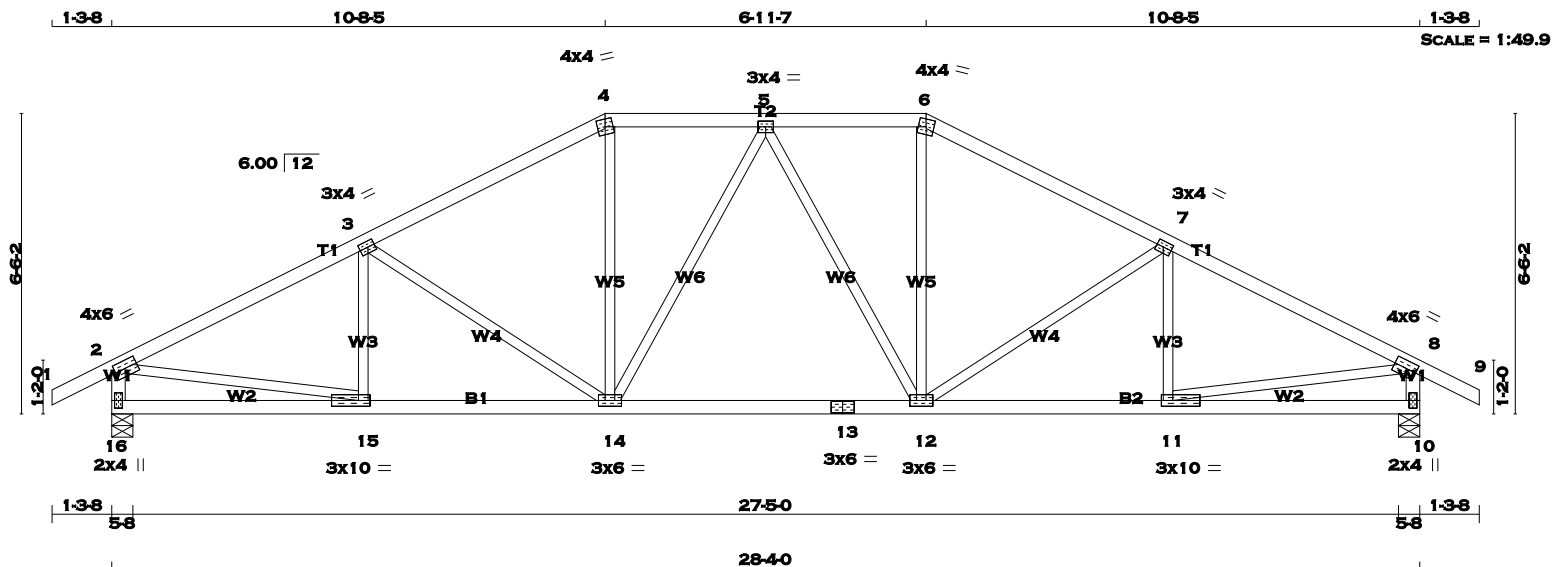
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.			DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS			DESIGN CRITERIA		
1 - 4	2x4	DRY	No.2	SPF		SPECIFIED LOADS:		
4 - 6	2x4	DRY	No.2	SPF		TOP CH. LL = 23.3 PSF		
6 - 8	2x4	DRY	No.2	SPF		DL = 3.0 PSF		
14 - 2	2x4	DRY	No.2	SPF		BOT CH. LL = 0.0 PSF		
9 - 8	2x4	DRY	No.2	SPF		DL = 7.0 PSF		
14 - 11	2x4	DRY	No.2	SPF		TOTAL LOAD = 33.3 PSF		
11 - 9	2x4	DRY	No.2	SPF		SPACING = 24.0 IN./C		
ALL WEBS	2x3	DRY	No.2	SPF		LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12		
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		
PLATES (table is in inches)			UNFACTORED REACTIONS			(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		
JT	TYPE	PLATES	W	LEN	Y	X	1ST LCASE	
2	TMV+p	MT20	2.0	4.0			JT	COMBINED
3	TMVW-t	MT20	3.0	10.0	1.50	4.00	14	1014
4	TTWW-m	MT20	4.0	8.0	1.75	3.75	9	943
5	TMV+w	MT20	2.0	4.0				
6	TTWW-m	MT20	4.0	8.0	1.75	3.75		
7	TMVW-t	MT20	3.0	10.0	1.50	4.00		
8	TMV+p	MT20	2.0	4.0				
9	BMVW1-t	MT20	4.0	5.0	1.75	1.75		
10	BMVW-t	MT20	3.0	4.0				
11	BS-t	MT20	3.0	6.0				
12	BMVW-t	MT20	3.0	8.0				
13	BMVW-t	MT20	3.0	4.0				
14	BMVW1-t	MT20	4.0	5.0	1.75	1.75		
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.			TOTAL LOAD CASES: (4)			ALLOWABLE DEFL.(LL)= L/360 (0.94")		
			CHORDS			CALCULATED VERT. DEFL.(LL) = L/ 999 (0.10")		
			MAX. FACTORED			ALLOWABLE DEFL.(TL)= L/360 (0.94")		
			MEMB. FORCE			CALCULATED VERT. DEFL.(TL) = L/ 999 (0.18")		
			(LBS)			CSI: TC=0.44 (4-5:1), BC=0.40 (13-14:1), WB=0.79 (3-14:1), SSI=0.23 (4-5:1)		
			VERT. LOAD LC1			DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10		
			MAX			COMP=1.10 SHEAR=1.10 TENS= 1.10		
			UNBRAC			COMPANION LIVE LOAD FACTOR = 0.50		
			LENGTH			TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .		
			FR-TO			NAIL VALUES		
			1-2			PLATE GRIP(DRY) SHEAR SECTION		
			2-3			(PSI) (PLI) (PLI)		
			3-4			MAX MIN MAX MIN MAX MIN		
			4-5			MT20 618 354 1667 822 2284 1656		
			5-6			PLATE PLACEMENT TOL. = 0.250 inches		
			6-7			PLATE ROTATION TOL. = 5.0 Deg.		
			7-8			JSI GRIP= 0.90 (3) (INPUT = 0.90)		
			14-2			JSI METAL= 0.49 (14) (INPUT = 1.00)		
			9-8					
			14-13					
			13-12					
			12-11					
			11-10					
			10-9					



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IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 117 lb
[M][F]

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	4.0	6.0	2.00 2.75
3	TMVW-t	MT20	3.0	4.0	1.50 1.75
4	TTW-m	MT20	4.0	4.0	
5	TMVW-t	MT20	3.0	4.0	
6	TTW-m	MT20	4.0	4.0	
7	TMVW-t	MT20	3.0	4.0	1.50 1.75
8	TMVW-t	MT20	4.0	6.0	2.00 2.75
10	BMV1+p	MT20	2.0	4.0	
11	BMVW-t	MT20	3.0	10.0	1.50 3.00
12	BMVW-t	MT20	3.0	6.0	
13	BS-t	MT20	3.0	6.0	
14	BMVW-t	MT20	3.0	6.0	
15	BMVW-t	MT20	3.0	10.0	1.50 3.00
16	BMV1+p	MT20	2.0	4.0	

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
16	1449	0	1449	0	0
10	1449	0	1449	0	0
UNFACTORED REACTIONS		1ST LCASE	MAX/MIN	COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
16	1014	723 / 0	0 / 0	0 / 0	291 / 0
10	1014	723 / 0	0 / 0	0 / 0	291 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.55 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: (4)

CHORDS		WEBS	
MEMB.	FACTORED FORCE (LBS)	MEMB.	FACTORED FORCE (LBS)
FR-TO	FROM TO	FR-TO	FROM TO
1-2	0 / 23	10-11	-178 / 32
2-3	-1913 / 0	11-12	-343 / 0
3-4	-1638 / 0	12-13	0 / 462
4-5	-1453 / 0	13-14	-182 / 0
5-6	-1453 / 0	14-15	-182 / 0
6-7	-1638 / 0	15-16	0 / 462
7-8	-1913 / 0	16-17	-343 / 0
8-9	0 / 23	17-18	-178 / 32
16-2	-1406 / 0	2-15	0 / 1751
10-8	-1406 / 0	8-11	0 / 1751
16-15	0 / 0	15-14	-17.5
15-14	0 / 1730	14-13	-17.5
14-13	0 / 1539	13-12	-17.5
13-12	0 / 1539	12-11	-17.5
12-11	0 / 1730	11-10	-17.5
11-10	0 / 0		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP	CH.	LL	PSF
	DL	= 23.3	PSF
BOT	CH.	LL	PSF
	DL	= 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 6.00/12

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 (0.94")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (0.94")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.17")

CSI: TC=0.34 (2-3:1), BC=0.35 (14-15:1), WB=0.39 (2-15:1), SSI=0.18 (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.

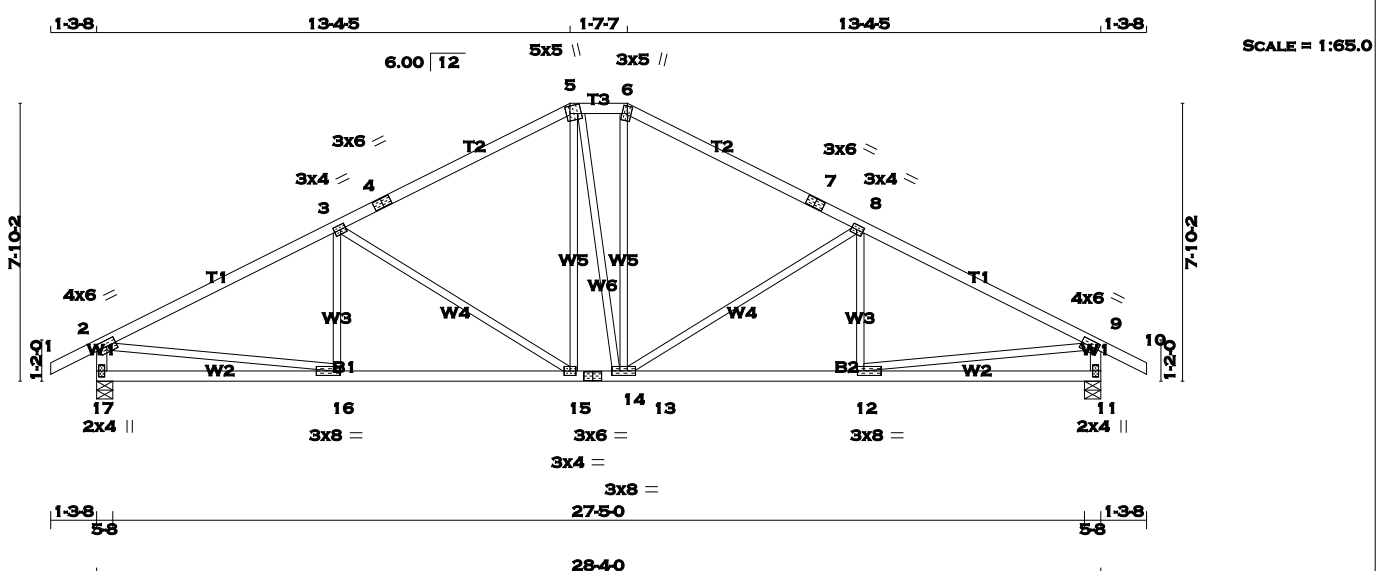
JSI GRIP= 0.89 (15) (INPUT = 0.90)
JSI METAL= 0.51 (8) (INPUT = 1.00)



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TOTAL WEIGHT = 121 lb
[M][F]

LUMBER					
N. L. G. A. RULES					
CHORDS	SIZE		LUMBER		DESCR.
1 - 4	2x4	DRY	No.2		SPF
4 - 5	2x4	DRY	No.2		SPF
5 - 6	2x4	DRY	No.2		SPF
6 - 7	2x4	DRY	No.2		SPF
7 - 10	2x4	DRY	No.2		SPF
17- 2	2x4	DRY	No.2		SPF
11- 9	2x4	DRY	No.2		SPF
17- 14	2x4	DRY	No.2		SPF
14- 11	2x4	DRY	No.2		SPF
ALL WEBS	2x3	DRY	No.2		SPF
EXCEPT					
DRY: SEASONED LUMBER.					

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	4.0	6.0	2.00 2.75
3	TMWW-t	MT20	3.0	4.0	1.50 1.75
4	TS-t	MT20	3.0	6.0	
5	TTWW+m	MT20	5.0	5.0	2.50 1.25
6	TTW+m	MT20	3.0	5.0	2.50 1.25
7	TS-t	MT20	3.0	6.0	
8	TMWW-t	MT20	3.0	4.0	1.50 1.75
9	TMVW-t	MT20	4.0	6.0	2.00 2.75
11	BMV1+p	MT20	2.0	4.0	
12	BMWW-t	MT20	3.0	8.0	1.50 2.25
13	BMWWW-t	MT20	3.0	8.0	
14	BS-t	MT20	3.0	6.0	
15	BMWW-t	MT20	3.0	4.0	
16	BMWW-t	MT20	3.0	8.0	1.50 2.25
17	BMV1+p	MT20	2.0	4.0	
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.					



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
17	1449	0		1449	0	0	5-8	5-8	
11	1449	0		1449	0	0	5-8	5-8	
UNFACTORED REACTIONS									
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
17	1014	723 / 0		0 / 0	0 / 0	0 / 0	291 / 0	0 / 0	
11	1014	723 / 0		0 / 0	0 / 0	0 / 0	291 / 0	0 / 0	
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 17, 11									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.28 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.									
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.									
LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1 MAX (LC)	
FR-TO			FROM	TO	LENGTH FR-TO				
1-2		0 / 23	-77.3	-77.3	0.10 (1)	10.00	16-3	-88 / 88	0.03 (4)
2-3		-1924 / 0	-77.3	-77.3	0.55 (1)	4.28	3-15	-579 / 0	0.75 (1)
3-4		-1434 / 0	-77.3	-77.3	0.49 (1)	4.87	15-5	0 / 364	0.08 (1)
4-5		-1434 / 0	-77.3	-77.3	0.49 (1)	4.87	5-13	0 / 12	0.00 (1)
5-6		-1265 / 0	-77.3	-77.3	0.04 (1)	5.69	13-6	0 / 378	0.08 (1)
6-7		-1437 / 0	-77.3	-77.3	0.49 (1)	4.87	13-8	-575 / 0	0.75 (1)
7-8		-1437 / 0	-77.3	-77.3	0.49 (1)	4.87	12-8	-91 / 87	0.03 (4)
8-9		-1923 / 0	-77.3	-77.3	0.55 (1)	4.28	2-16	0 / 1759	0.40 (1)
9-10		0 / 23	-77.3	-77.3	0.10 (1)	10.00	12-9	0 / 1758	0.40 (1)
17-2		-1400 / 0	0.0	0.0	0.14 (1)	6.88			
11-9		-1399 / 0	0.0	0.0	0.14 (1)	6.88			
17-16		0 / 0	-17.5	-17.5	0.20 (4)	10.00			
16-15		0 / 1745	-17.5	-17.5	0.38 (1)	10.00			
15-14		0 / 1262	-17.5	-17.5	0.28 (1)	10.00			
14-13		0 / 1262	-17.5	-17.5	0.28 (1)	10.00			
13-12		0 / 1744	-17.5	-17.5	0.37 (1)	10.00			
12-11		0 / 0	-17.5	-17.5	0.19 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

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 (0.94")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.94")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.17")

CSI: TC=0.55 (2-3:1), BC=0.38 (15-16:1), WB=0.75 (3-15:1), SSI=0.23 (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

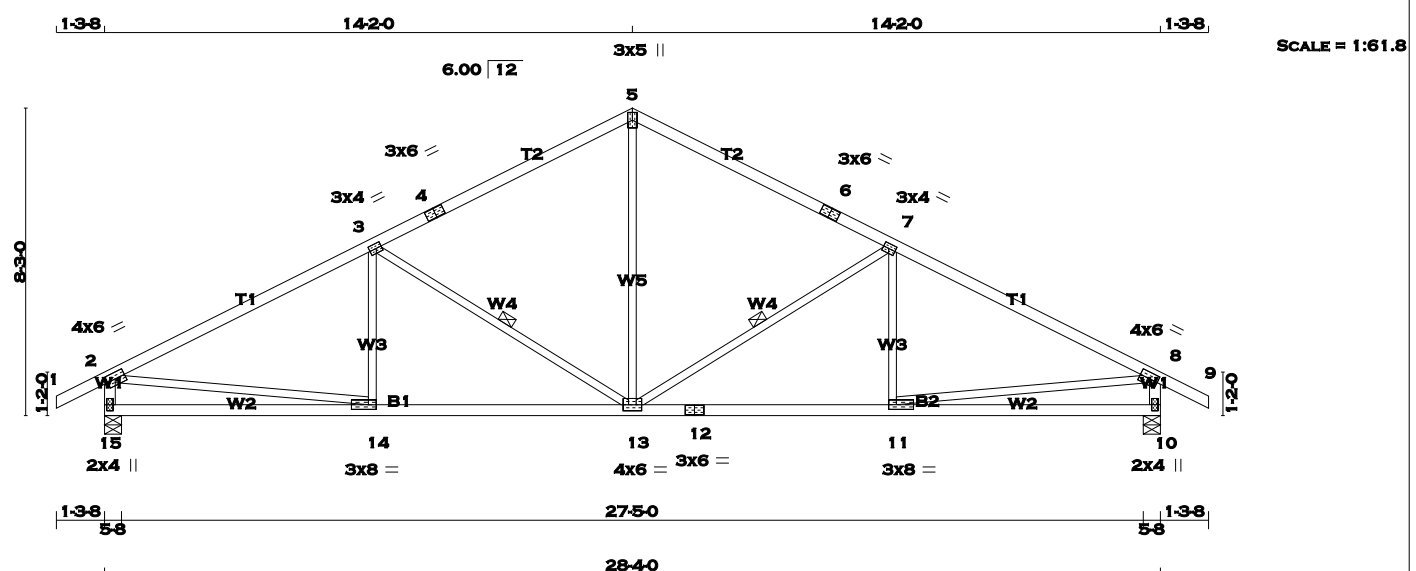
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (16) (INPUT = 0.90)
JSI METAL= 0.52 (2) (INPUT = 1.00)

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TOTAL WEIGHT = 3 X 111 = 332 lb
[M][F]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 4	2x4	DRY	No.2	SPF
4 - 5	2x4	DRY	No.2	SPF
5 - 6	2x4	DRY	No.2	SPF
6 - 9	2x4	DRY	No.2	SPF
15 - 2	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
15 - 12	2x4	DRY	No.2	SPF
12 - 10	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	2.00	2.75
3	TMVW-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
5	TTW+p	MT20	3.0	5.0		
6	TS-t	MT20	3.0	6.0		
7	TMVW-t	MT20	3.0	4.0	1.50	1.75
8	TMVW-t	MT20	4.0	6.0	2.00	2.75
10	BMV1+p	MT20	2.0	4.0		
11	BMVW-t	MT20	3.0	8.0	1.50	2.50
12	BS-t	MT20	3.0	6.0		
13	BMVW-t	MT20	4.0	6.0		
14	BMVW-t	MT20	3.0	8.0	1.50	2.50
15	BMV1+p	MT20	2.0	4.0		
A SIZE FOR SIZE SUBSTITUTION OF MIITEK 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		
15	1449	0	1449	0	0	5-8	5-8		
10	1449	0	1449	0	0	5-8	5-8		

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN.	SNOW	LIVE	PERM.LIVE	WIND	DEAD
15	1014	723 / 0	0 / 0	0 / 0	0 / 0	291 / 0	0 / 0
10	1014	723 / 0	0 / 0	0 / 0	0 / 0	291 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.17 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 7-13, 3-13. DBS = 20-0-0 . CBF = 79 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

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 CSI (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 23	-77.3 -77.3	0.10 (1)	10-00	13-5	0 / 801	0.18 (1)
2-3	-1917 / 0	-77.3 -77.3	0.62 (1)	4.17	13-7	-633 / 0	0.30 (1)
3-4	-1379 / 0	-77.3 -77.3	0.55 (1)	4.84	11-7	-72 / 96	0.03 (4)
4-5	-1379 / 0	-77.3 -77.3	0.55 (1)	4.84	3-13	-633 / 0	0.30 (1)
5-6	-1379 / 0	-77.3 -77.3	0.55 (1)	4.84	14-3	-72 / 96	0.03 (4)
6-7	-1379 / 0	-77.3 -77.3	0.55 (1)	4.84	2-14	0 / 1753	0.39 (1)
7-8	-1917 / 0	-77.3 -77.3	0.62 (1)	4.17	11-8	0 / 1753	0.39 (1)
8-9	0 / 23	-77.3 -77.3	0.10 (1)	10.00			
15-2	-1396 / 0	0.0	0.0 0.14 (1)	6.89			
10-8	-1396 / 0	0.0	0.0 0.14 (1)	6.89			
15-14	0 / 0	-17.5 -17.5	0.21 (4)	10.00			
14-13	0 / 1741	-17.5 -17.5	0.38 (1)	10.00			
13-12	0 / 1741	-17.5 -17.5	0.38 (1)	10.00			
12-11	0 / 1741	-17.5 -17.5	0.38 (1)	10.00			
11-10	0 / 0	-17.5 -17.5	0.21 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

(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 (0.94")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.94")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.17")

CSI: TC=0.62 (7-8:1) , BC=0.38 (11-13:1) , WB=0.39 (8-11:1) , SSI=0.24 (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.

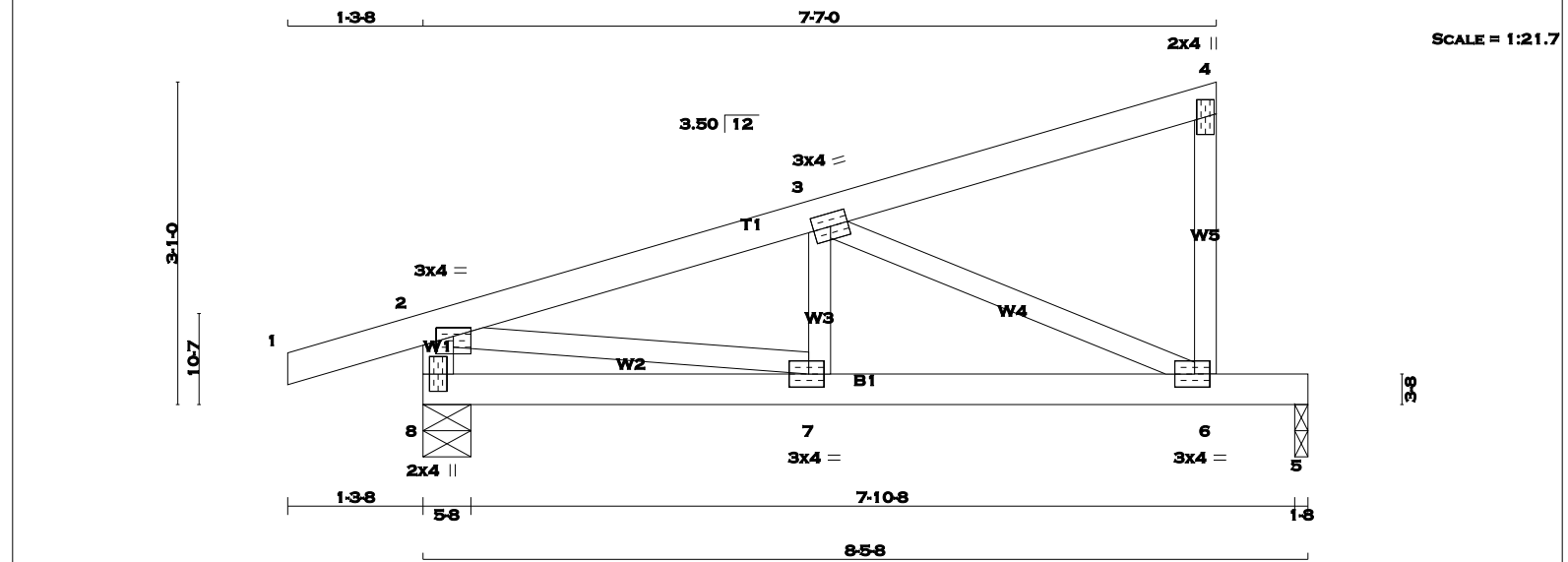
JSI GRIP= 0.90 (14) (INPUT = 0.90)
JSI METAL= 0.52 (8) (INPUT = 1.00)



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TOTAL WEIGHT = 7 X 30 = 208 lb
[M][F]

LUMBER					DESCR.
N. L. G. A. RULES	SIZE		LUMBER		
CHORDS					
1 - 4	2x4	DRY	No.2		SPF
6 - 4	2x3	DRY	No.2		SPF
8 - 2	2x4	DRY	No.2		SPF
8 - 5	2x4	DRY	No.2		SPF
ALL WEBS	2x3	DRY	No.2		SPF
EXCEPT					
DRY: SEASONED LUMBER.					

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-p	MT20	3.0	4.0	1.00	2.00
3	TMVW-t	MT20	3.0	4.0		
4	TMV+p	MT20	2.0	4.0		
6	BMVW-t	MT20	3.0	4.0	1.50	1.75
7	BMVW-t	MT20	3.0	4.0	1.50	1.75
8	BMV1+p	MT20	2.0	4.0		

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

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

		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
8		501	0	501	0	0	5-8	5-8	
5		337	0	337	0	0	1-8	1-8	

UNFACTORED REACTIONS							
JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
8		349	257 / 0	0 / 0	0 / 0	0 / 0	92 / 0
5		238	158 / 0	0 / 0	0 / 0	0 / 0	80 / 0

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

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

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

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX UNBRACED LENGTH	FACTORED MAX CSI (LC)
FR-TO		FROM TO		FR-TO			
1-2	0 / 14	-77.3	-77.3 0.10 (1)	10.00	7-3	0 / 97	0.03 (4)
2-3	-629 / 0	-77.3	-77.3 0.13 (1)	6.25	3-6	-670 / 0	0.19 (1)
3-4	-9 / 0	-77.3	-77.3 0.13 (1)	10.00	2-7	0 / 619	0.14 (1)
6-4	-115 / 0	0.0	0.0 0.03 (1)	7.81			
8-2	-489 / 0	0.0	0.0 0.05 (1)	7.81			
8-7	0 / 0	-17.5	-17.5 0.11 (1)	10.00			
7-6	0 / 612	-17.5	-17.5 0.49 (1)	10.00			
6-5	0 / 0	-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

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 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.28")
CALCULATED VERT. DEFL.(TL) = L/ 873 (0.12")

CSI: TC=0.13 (2-3:1) , BC=0.49 (6-7:1) , WB=0.19 (3-6:1) , SSI=0.26 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

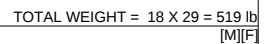
JSI GRIP= 0.83 (7) (INPUT = 0.90)
JSI METAL= 0.23 (7) (INPUT = 1.00)



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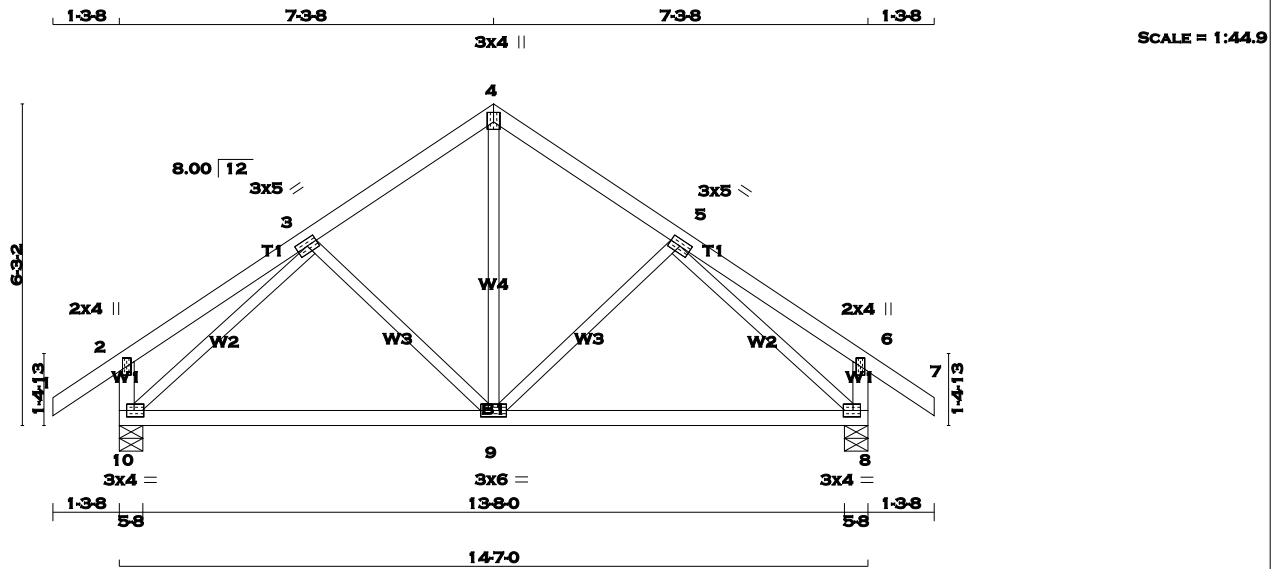
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Professional Engineer Seal for P. M. Trevisan, License No. 100136551, Province of Ontario, dated March 14th, 2017.

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMV+p	MT20	2.0	4.0	
3	TMWW-t	MT20	3.0	5.0	
4	TTW+p	MT20	3.0	4.0	2.25 1.50
5	TMWW-t	MT20	3.0	5.0	
6	TMV+p	MT20	2.0	4.0	
8	BMVW1-t	MT20	3.0	4.0	1.50 1.75
9	BMWW-t	MT20	3.0	6.0	
10	BMVW1-t	MT20	3.0	4.0	1.50 1.75

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX
10	798	0	798	0	0	5-8	5-8	5-8	5-8
8	798	0	798	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
10	558	403 / 0	0 / 0	0 / 0	0 / 0	0 / 0	154 / 0	0 / 0
8	558	403 / 0	0 / 0	0 / 0	0 / 0	0 / 0	154 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)	UNBRAC LENGTH
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.3 -77.3	0.10 (1)	10.00	9-4	0 / 371	0.08 (1)
2-3	0 / 18	-77.3 -77.3	0.16 (1)	10.00	9-5	-155 / 5	0.07 (1)
3-4	-550 / 0	-77.3 -77.3	0.13 (1)	6.25	3-9	-155 / 5	0.07 (1)
4-5	-550 / 0	-77.3 -77.3	0.13 (1)	6.25	10-3	-770 / 0	0.31 (1)
5-6	0 / 18	-77.3 -77.3	0.16 (1)	10.00	5-8	-770 / 0	0.31 (1)
6-7	0 / 29	-77.3 -77.3	0.10 (1)	10.00			
10-2	-215 / 0	0.0 0.0	0.02 (1)	7.81			
8-6	-215 / 0	0.0 0.0	0.02 (1)	7.81			
10-9	0 / 554	-17.5 -17.5	0.30 (4)	10.00			
9-8	0 / 554	-17.5 -17.5	0.30 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.49")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.49")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.16 (5-6:1) , BC=0.30 (9-10:4) , WB=0.31 (5-8:1) , SSI=0.11 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

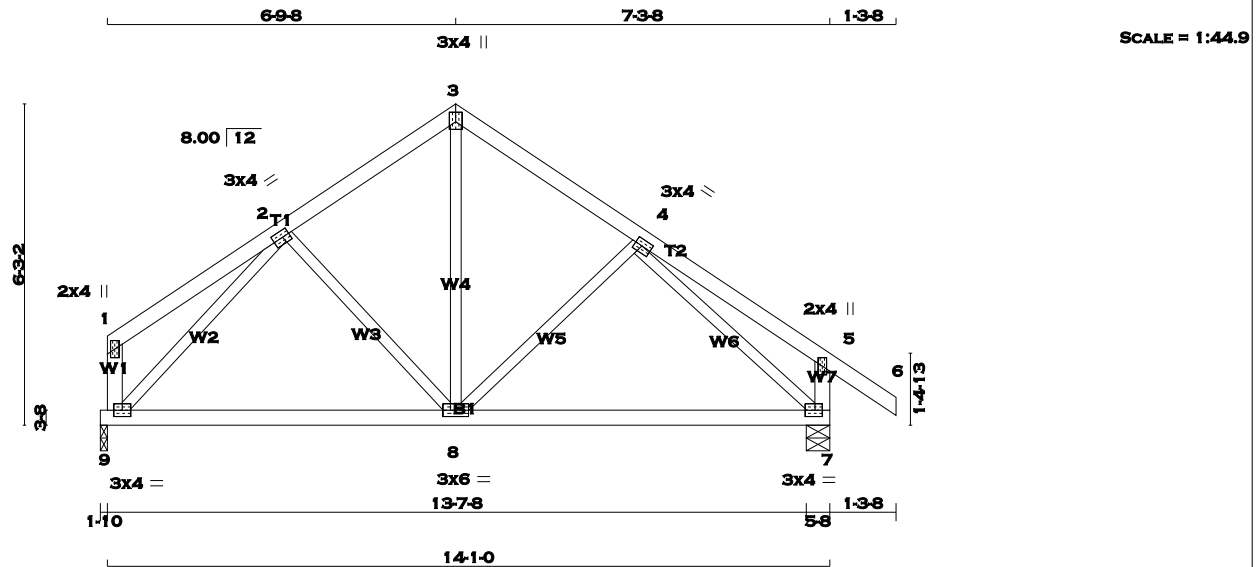
JSI GRIP= 0.85 (8) (INPUT = 0.90)
JSI METAL= 0.22 (3) (INPUT = 1.00)



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TOTAL WEIGHT = 3 X 60 = 180 lb
[M][F]

LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
1 - 3	2x4	DRY	No.2	SPF
3 - 6	2x4	DRY	No.2	SPF
9 - 1	2x4	DRY	No.2	SPF
7 - 5	2x4	DRY	No.2	SPF
9 - 7	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	TMV+p	MT20	2.0	4.0		
2	TMWW-t	MT20	3.0	4.0	1.50	1.75
3	TTW+p	MT20	3.0	4.0	2.25	1.50
4	TMWW-t	MT20	3.0	4.0	1.50	1.75
5	TMV+p	MT20	2.0	4.0		
7	BMVW1-t	MT20	3.0	4.0	1.50	1.75
8	BMWWW-t	MT20	3.0	6.0		
9	BMVW1-t	MT20	3.0	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	HORZ	GROSS REACTION	DOWN	UP	BRG	IN-SX	BRG
9	668	0	668	0	0	1-10	1-10	1-10	1-10
7	774	0	774	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	2ND LCASE	MAX/MIN. COMPONENT REACTIONS
9	COMBINED	SNOW	LIVE	PERM.LIVE
9	469	328 / 0	0 / 0	0 / 0
7	541	392 / 0	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 9, 7

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	UNBRACED LENGTH
FR-TO		FROM TO		FR-TO			
1-2	0 / 16	-77.3 -77.3	0.14 (1)	10.00	2-8	-102 / 16	0.04 (1)
2-3	-512 / 0	-77.3 -77.3	0.11 (1)	6.25	8-3	0 / 339	0.08 (1)
3-4	-514 / 0	-77.3 -77.3	0.13 (1)	6.25	8-4	-161 / 3	0.07 (1)
4-5	0 / 18	-77.3 -77.3	0.16 (1)	10.00	9-2	-710 / 0	0.28 (1)
5-6	0 / 29	-77.3 -77.3	0.10 (1)	10.00	4-7	-735 / 0	0.30 (1)
9-1	-102 / 0	0.0 0.0	0.01 (1)	7.81			
7-5	-215 / 0	0.0 0.0	0.02 (1)	7.81			
9-8	0 / 482	-17.5 -17.5	0.28 (4)	10.00			
8-7	0 / 529	-17.5 -17.5	0.28 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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 (0.47")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.16 (4-5:1), BC=0.28 (7-8:4), WB=0.30 (4-7:1), SSI=0.11 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

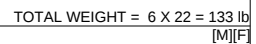
JSI GRIP= 0.90 (4) (INPUT = 0.90)
JSI METAL= 0.26 (4) (INPUT = 1.00)



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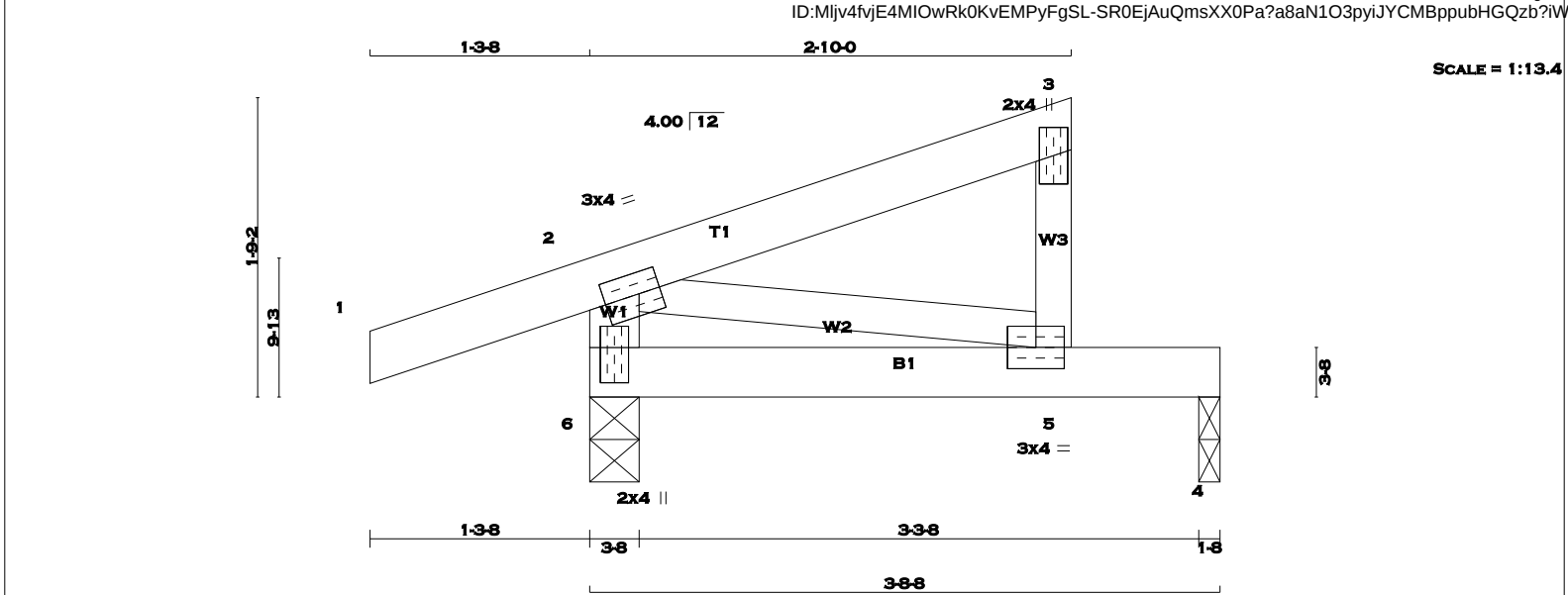


A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

CHORDS				WEBS			
MEMB.	MAX. FACTORED (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		
1-2	0/16	-77.3	-77.3	0.10 (1)	10.00	0/0	0.00 (1)
2-3	0/0	-77.3	-77.3	0.42 (1)	10.00		
5-3	-219/0	0.0	0.0	0.04 (1)	7.81		
6-2	-323/0	0.0	0.0	0.03 (1)	7.81		
6-5	0/0	-17.5	-17.5	0.29 (1)	10.00		
5-4	0/0	-17.5	-17.5	0.29 (1)	10.00		

SUMMARY= 0.00 (0) (INFO = 1.00)





LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

1 - 3

2x4

DRY

No.2

SPF

5 - 3

2x3

DRY

No.2

SPF

6 - 2

2x4

DRY

No.2

SPF

6 - 4

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT

TYPE

PLATES

W

LEN

Y

X

2

TMVW-t

MT20

3.0

4.0

1.50

1.50

3

TMV+p

MT20

2.0

4.0

5

BMVW-t

MT20

3.0

4.0

6

BMV1+p

MT20

2.0

4.0

2.50

1.00

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

6

271

0

271

0

0

3-8

3-8

4

116

0

116

0

0

1-8

1-8

UNFACTORED REACTIONS

1ST LCASE

MAX./MIN. COMPONENT REACTIONS

JT

COMBINED

SNOW

LIVE

PERM.LIVE

WIND

DEAD

SOIL

6

188

144 / 0

0 / 0

0 / 0

0 / 0

44 / 0

0 / 0

4

83

50 / 0

0 / 0

0 / 0

0 / 0

32 / 0

0 / 0

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS

MAX. FACTORED

FACTORED

VERT. LOAD

LC1

MAX

MAX.

MEMB.

MAX.

FACTORED

MEMB.

FORCE

VERT.

LOAD

LC1

MAX

MAX.

MEMB.

FORCE

MAX

FR-TO

FROM

TO

CS1

LC

UNBRAC

LENGTH

FR-TO

1-2

0 / 16

-77.3

-77.3

0.10

(1)

10.00

2-5

2-3

0 / 0

-77.3

-77.3

0.11

(1)

10.00

5-3

-110 / 0

0.0

0.0

0.02

(1)

7.81

6-2

-213 / 0

0.0

0.0

0.02

(1)

7.81

6-5

0 / 0

-17.5

-17.5

0.13

(1)

10.00

5-4

0 / 0

-17.5

-17.5

0.13

(1)

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

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

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

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

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

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

CSI: TC=0.11 (2-3:1) , BC=0.13 (5-6:1) , WB=0.00 (2-5:1) , SSI=0.09 (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

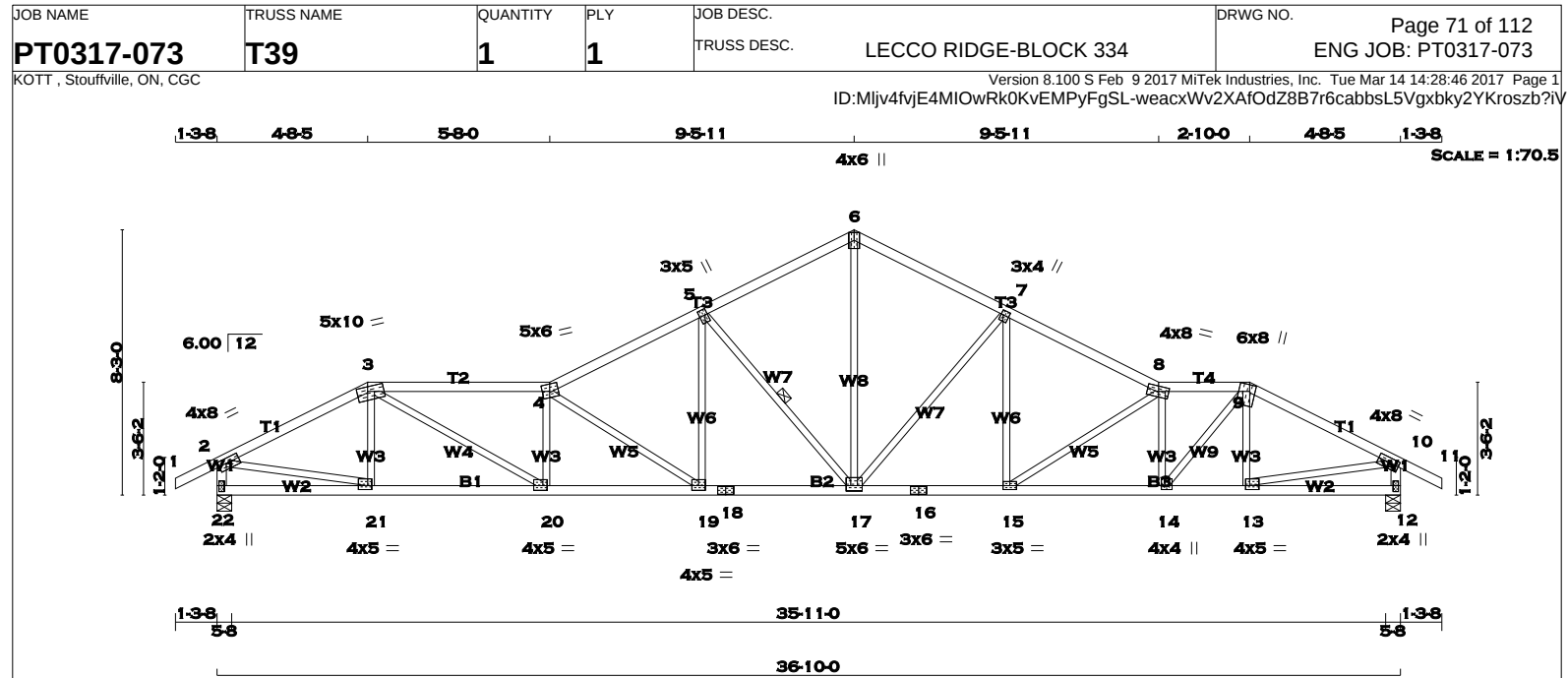
1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (2) (INPUT = 0.90)

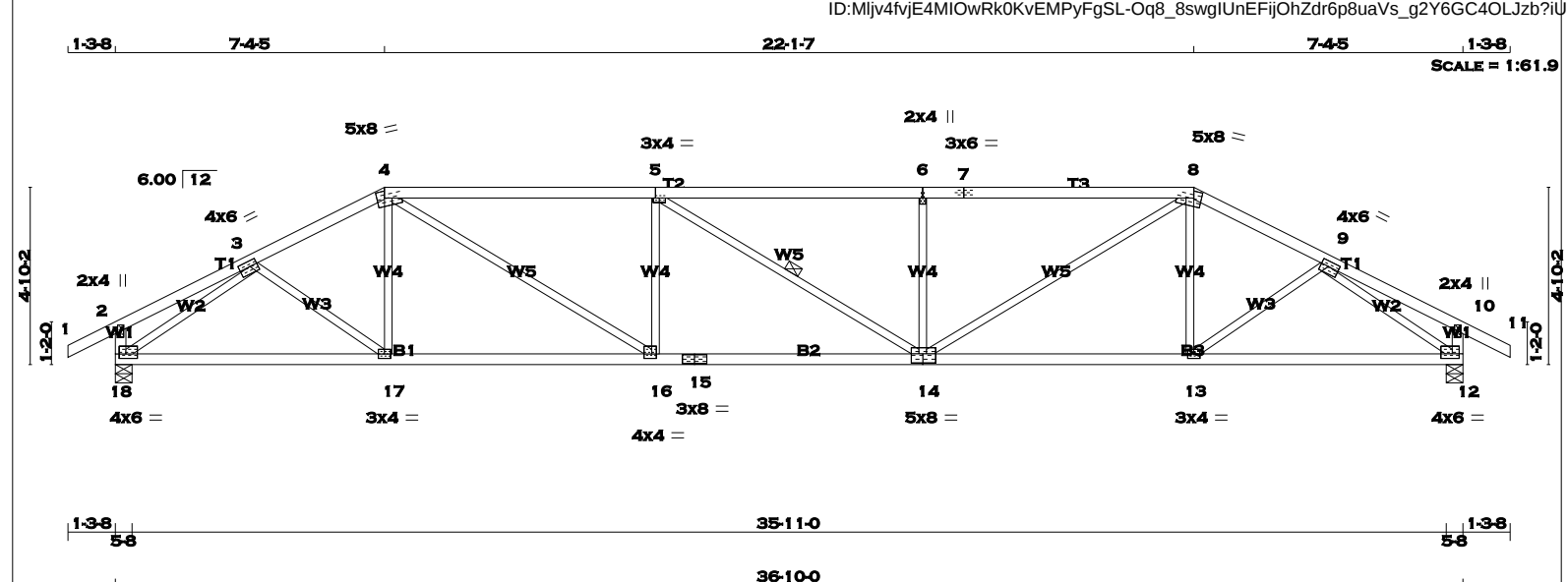
JSI METAL= 0.04 (6) (INPUT = 1.00)



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 3 2x4 DRY No.2 SPF 3 - 4 2x4 DRY No.2 SPF 4 - 6 2x4 DRY No.2 SPF 6 - 8 2x4 DRY No.2 SPF 8 - 9 2x4 DRY No.2 SPF 9 - 11 2x4 DRY No.2 SPF 22 - 2 2x4 DRY No.2 SPF 12 - 10 2x4 DRY No.2 SPF 22 - 18 2x4 DRY No.2 SPF 18 - 16 2x4 DRY No.2 SPF 16 - 12 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION JT VERT HORZ 22 1852 0 12 1852 0 MAXIMUM FACTORED GROSS REACTION DOWN HORZ UPLIFT IN-SX 22 1852 0 0 5-8 12 1852 0 0 5-8 INPUT BRG 22 5-8 12 5-8 REQRD BRG 22 5-8 12 5-8 UNFACTORED REACTIONS 1ST LCASE MAX/MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 22 1297 921/0 0/0 0/0 376/0 0/0 12 1297 921/0 0/0 0/0 376/0 0/0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 22, 12 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.07 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 5-17. DBS = 10-0-0. CBF = 78 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: (4) C H O R D S MEMB. MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) MAX. LC1 (LC) MAX. UNBRAC LENGTH FR-TO FR-TO 1-2 0/23 -77.3 -77.3 0.10 (1) 10.00 21-3 -294/0 0.06 (1) 2-3 -2520/0 -77.3 -77.3 0.31 (1) 4.09 3-20 0/2046 0.46 (1) 3-4 -4015/0 -77.3 -77.3 0.58 (1) 3.07 20-4 -949/0 0.20 (1) 4-5 -3145/0 -77.3 -77.3 0.35 (1) 3.68 4-19 -1467/0 0.84 (1) 5-6 -2276/0 -77.3 -77.3 0.28 (1) 4.30 19-5 0/908 0.20 (1) 6-7 -2275/0 -77.3 -77.3 0.28 (1) 4.30 5-17 -1255/0 0.45 (1) 7-8 -2891/0 -77.3 -77.3 0.33 (1) 3.84 17-6 0/1736 0.39 (1) 8-9 -3215/0 -77.3 -77.3 0.19 (1) 3.78 17-7 -904/0 0.94 (1) 9-10 -2511/0 -77.3 -77.3 0.31 (1) 4.10 15-7 0/527 0.12 (1) 10-11 0/23 -77.3 -77.3 0.10 (1) 10.00 15-8 -782/0 0.45 (1) 22-2 -1820/0 0.0 0.0 0.18 (1) 6.20 14-8 -1110/0 0.23 (1) 12-10 -1814/0 0.0 0.0 0.18 (1) 6.21 14-9 0/1515 0.34 (1) 13-9 -319/0 0.0 0.0 0.18 (1) 6.21 13-10 0/2280 0.51 (1) 22-21 0/0 -17.5 -17.5 0.11 (4) 10.00 2-21 0/2288 0.51 (1) 21-20 0/2243 -17.5 -17.5 0.43 (1) 10.00 13-10 0/2280 0.51 (1) 20-19 0/4046 -17.5 -17.5 0.71 (1) 10.00 19-18 0/2832 -17.5 -17.5 0.51 (1) 10.00 18-17 0/2832 -17.5 -17.5 0.51 (1) 10.00 17-16 0/2604 -17.5 -17.5 0.47 (1) 10.00 16-15 0/2604 -17.5 -17.5 0.47 (1) 10.00 15-14 0/3251 -17.5 -17.5 0.59 (1) 10.00 14-13 0/2234 -17.5 -17.5 0.39 (1) 10.00 13-12 0/0 -17.5 -17.5 0.08 (4) 10.00				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN./C/C LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12 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 (1.23") CALCULATED VERT. DEFL.(LL)= L/999 (0.28") ALLOWABLE DEFL.(TL)= L/360 (1.23") CALCULATED VERT. DEFL.(TL)= L/888 (0.50") CSI: TC=0.58 (3-4:1), BC=0.71 (19-20:1), WB=0.94 (7-17:1), SSI=0.17 (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 (14) (INPUT = 0.90) JSI METAL= 0.70 (18) (INPUT = 1.00)			
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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.



TOTAL WEIGHT = 139 lb

LUMBER				N. L. G. A. RULES			
CHORDS		SIZE	LUMBER		DESCR.		
1 - 4	2x4	DRY	No.2	SPF			
4 - 7	2x4	DRY	No.2	SPF			
7 - 8	2x4	DRY	No.2	SPF			
8 - 11	2x4	DRY	No.2	SPF			
18 - 2	2x4	DRY	No.2	SPF			
12 - 10	2x4	DRY	No.2	SPF			
18 - 15	2x4	DRY	No.2	SPF			
15 - 14	2x4	DRY	No.2	SPF			
14 - 12	2x4	DRY	No.2	SPF			
ALL WEBS EXCEPT		2x3 DRY	No.2	SPF			

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMWW-t	MT20	4.0	6.0	1.75	2.50
4	TTWW-m	MT20	5.0	8.0	2.25	2.50
5	TMWW-t	MT20	3.0	4.0		
6	TMW+w	MT20	2.0	4.0		
7	TS-t	MT20	3.0	6.0		
8	TTWW-m	MT20	5.0	8.0	2.25	2.50
9	TMWW-t	MT20	4.0	6.0	1.75	2.50
10	TMV+p	MT20	2.0	4.0		
12	BMVW1-t	MT20	4.0	6.0	1.50	2.25
13	BMWW-t	MT20	3.0	4.0		
14	BSWWW-l	MT20	5.0	8.0	3.00	3.75
15	BS-t	MT20	3.0	8.0		
16	BMWW-t	MT20	4.0	4.0	1.50	1.50
17	BMWW-t	MT20	3.0	4.0		
18	BMVW1-t	MT20	4.0	6.0	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
18	1852	0	1852	0	0	5-8	5-8	
12	1852	0	1852	0	0	5-8	5-8	

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
18	1297	921 / 0	0 / 0	0 / 0	0 / 0	376 / 0	0 / 0
12	1297	921 / 0	0 / 0	0 / 0	0 / 0	376 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18, 12

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.83 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 5-14. DBS = 20-0-0 . CBF = 0 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: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO	FR-TO			
1-2	0 / 23	-77.3	-77.3 0.10 (1)	10.00	3-17	0 / 161	0.04 (4)
2-3	0 / 11	-77.3	-77.3 0.13 (1)	10.00	17-4	0 / 102	0.04 (4)
3-4	-2567 / 0	-77.3	-77.3 0.22 (1)	4.14	4-16	0 / 1419	0.32 (1)
4-5	-3494 / 0	-77.3	-77.3 1.19 (1)	2.83	16-5	-619 / 0	0.21 (1)
5-6	-3493 / 0	-77.3	-77.3 1.16 (1)	2.83	5-14	-2 / 0	0.00 (1)
6-7	-3493 / 0	-77.3	-77.3 1.18 (1)	2.84	14-6	-618 / 0	0.21 (1)
7-8	-3493 / 0	-77.3	-77.3 1.18 (1)	2.84	14-8	0 / 1417	0.32 (1)
8-9	-2567 / 0	-77.3	-77.3 0.22 (1)	4.14	13-8	0 / 102	0.04 (4)
9-10	0 / 11	-77.3	-77.3 0.13 (1)	10.00	13-9	0 / 161	0.04 (4)
10-11	0 / 23	-77.3	-77.3 0.10 (1)	10.00	18-3	-2668 / 0	0.91 (1)
18-2	-222 / 0	0.0	0.0 0.02 (1)	7.81	9-12	-2668 / 0	0.91 (1)
12-10	-222 / 0	0.0	0.0 0.02 (1)	7.81			

18-17	0 / 2153	-17.5	-17.5 0.47 (1)	10.00
17-16	0 / 2285	-17.5	-17.5 0.49 (1)	10.00
16-15	0 / 3494	-17.5	-17.5 0.64 (1)	10.00
15-14	0 / 3494	-17.5	-17.5 0.64 (1)	10.00
14-13	0 / 2285	-17.5	-17.5 0.49 (1)	10.00
13-12	0 / 2153	-17.5	-17.5 0.47 (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 6.00/12

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 (1.23")
CALCULATED VERT. DEFL.(LL) = L/999 (0.26")
ALLOWABLE DEFL.(TL)= L/360 (1.23")
CALCULATED VERT. DEFL.(TL) = L/924 (0.48")

CSI: TC=1.19 (4-5:1) , BC=0.64 (14-16:1) , WB=0.91 (9-12:1) , SSI=0.27 (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= 0.90 (12) (INPUT = 0.90)
JSI METAL= 0.86 (15) (INPUT = 1.00)

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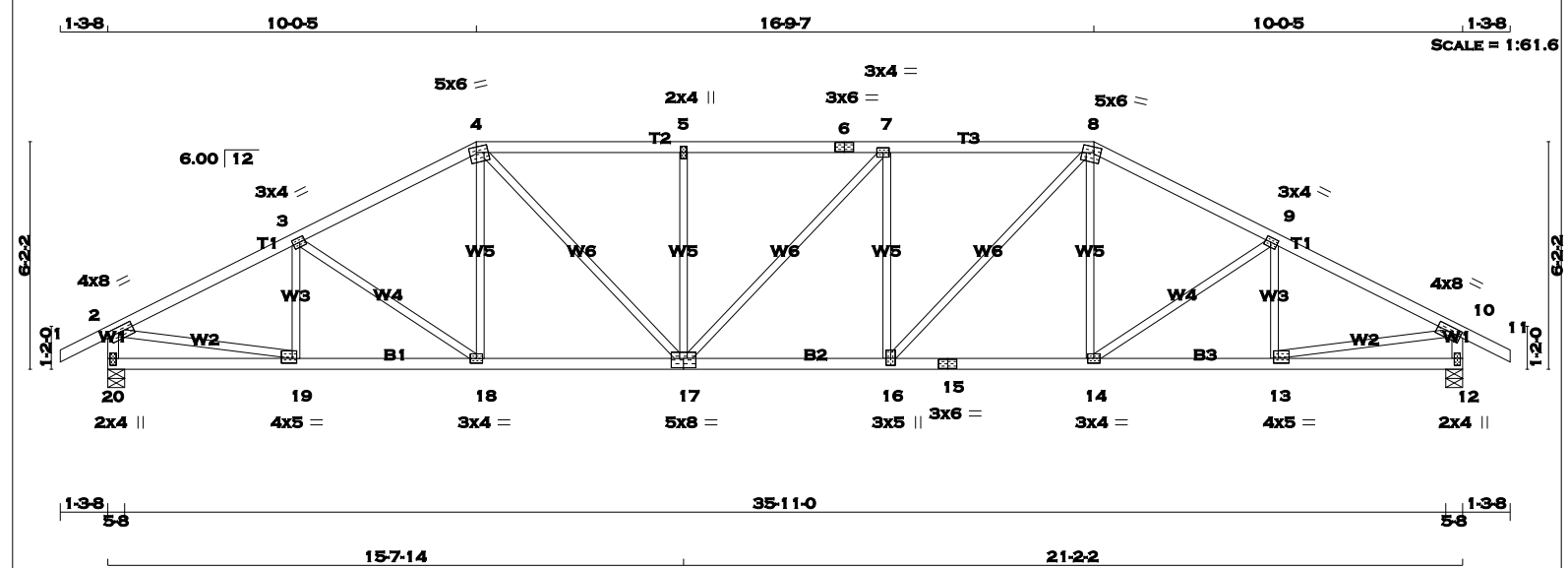
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IN THE DESIGN OF THIS COMPONENT.





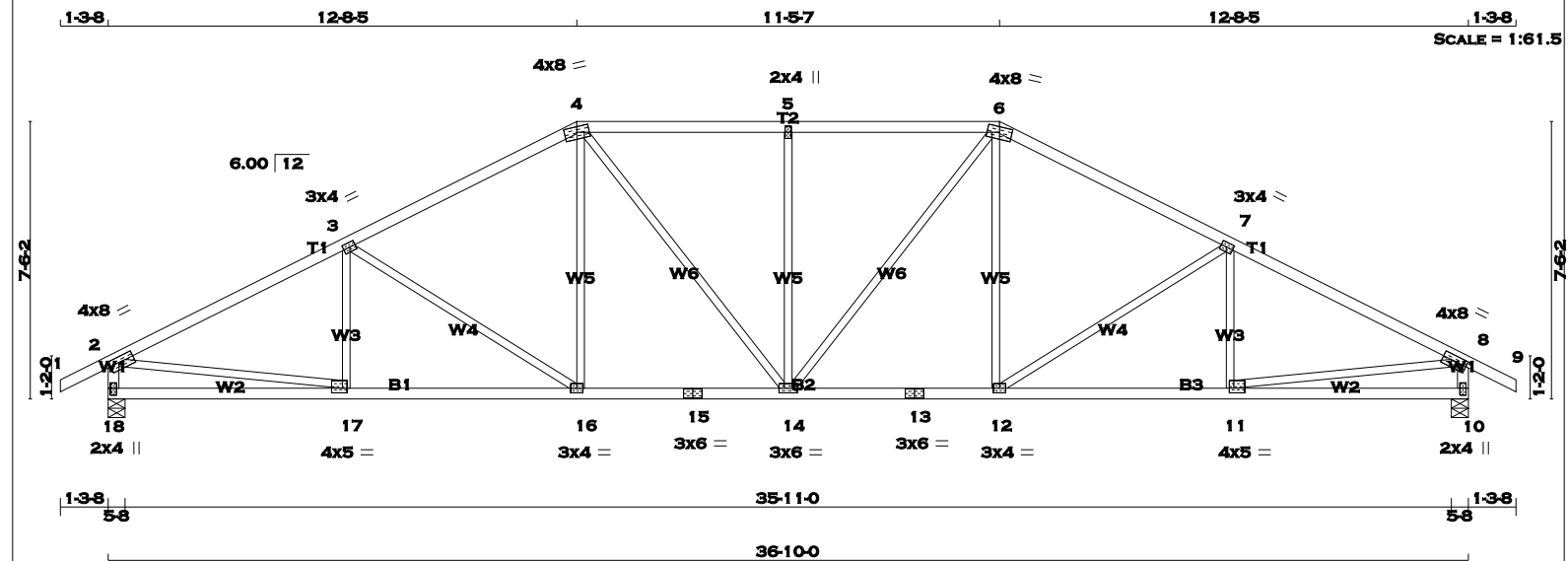
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 4 2x4 DRY No.2 SPF 4 - 6 2x4 DRY No.2 SPF 6 - 8 2x4 DRY No.2 SPF 8 - 11 2x4 DRY No.2 SPF 20 - 2 2x4 DRY No.2 SPF 12 - 10 2x4 DRY No.2 SPF 20 - 17 2x4 DRY No.2 SPF 17 - 15 2x4 DRY No.2 SPF 15 - 12 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED MAXIMUM FACTORED INPUT REQD GROSS REACTION GROSS REACTION BRG BRG JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX 20 1852 0 1852 0 0 5-8 5-8 12 1852 0 1852 0 0 5-8 5-8 UNFACTORED REACTIONS 1ST LCASE MAX/MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 20 1297 921 / 0 0 / 0 0 / 0 376 / 0 0 / 0 12 1297 921 / 0 0 / 0 0 / 0 376 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 20, 12 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.88 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 MAX. FACTORED MAX. FACTORED MEMB. FORCE VERT. LOAD LC1 MAX. MEMB. FORCE MAX. (LBS) (PLF) CSI (LC) UNBRAC (LBS) CSI (LC) FR-TO FROM TO LENGTH FR-TO 1-2 0 / 23 -77.3 -77.3 0.10 (1) 10.00 19-3 -302 / 0 0.07 (1) 2-3 -2576 / 0 -77.3 -77.3 0.34 (1) 4.03 3-18 -180 / 0 0.12 (1) 3-4 -2451 / 0 -77.3 -77.3 0.32 (1) 4.13 18-4 0 / 201 0.05 (1) 4-5 -2715 / 0 -77.3 -77.3 0.39 (1) 3.88 4-17 0 / 779 0.18 (1) 5-6 -2715 / 0 -77.3 -77.3 0.36 (1) 3.92 17-5 -467 / 0 0.28 (1) 6-7 -2715 / 0 -77.3 -77.3 0.36 (1) 3.92 17-7 -2 / 0 0.00 (1) 7-8 -2716 / 0 -77.3 -77.3 0.39 (1) 3.88 16-7 -468 / 0 0.28 (1) 8-9 -2450 / 0 -77.3 -77.3 0.32 (1) 4.13 16-8 0 / 781 0.18 (1) 9-10 -2576 / 0 -77.3 -77.3 0.34 (1) 4.03 14-8 0 / 200 0.04 (1) 10-11 0 / 23 -77.3 -77.3 0.10 (1) 10.00 14-9 -180 / 0 0.12 (1) 20-2 -1810 / 0 0.0 0.0 0.18 (1) 6.22 13-9 -302 / 0 0.07 (1) 12-10 -1810 / 0 0.0 0.0 0.18 (1) 6.21 2-19 0 / 2354 0.53 (1) 13-10 0 / 2354 0.53 (1) 20-19 0 / 0 -17.5 -17.5 0.09 (4) 10.00 19-18 0 / 2321 -17.5 -17.5 0.43 (1) 10.00 18-17 0 / 2176 -17.5 -17.5 0.41 (1) 10.00 17-16 0 / 2716 -17.5 -17.5 0.49 (1) 10.00 16-15 0 / 2176 -17.5 -17.5 0.41 (1) 10.00 15-14 0 / 2176 -17.5 -17.5 0.41 (1) 10.00 14-13 0 / 2321 -17.5 -17.5 0.43 (1) 10.00 13-12 0 / 0 -17.5 -17.5 0.09 (4) 10.00				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 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 (1.23") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.18") ALLOWABLE DEFL.(TL)= L/360 (1.23") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.32") CSI: TC=0.39 (4-5:1), BC=0.49 (16-17:1), WB=0.53 (10-13:1), SSI=0.20 (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= 0.89 (4) (INPUT = 0.90) JSI METAL= 0.70 (13) (INPUT = 1.00)			
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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.





TOTAL WEIGHT = 152 lb
[M][F]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
6 - 9	2x4	DRY	No.2
18 - 2	2x4	DRY	No.2
10 - 8	2x4	DRY	No.2
18 - 15	2x4	DRY	No.2
15 - 13	2x4	DRY	No.2
13 - 10	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
SPF			
DRY: SEASONED LUMBER.			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	X
2	TMVW-t	MT20	4.0	8.0	1.75 3.00
3	TMVW-t	MT20	3.0	4.0	1.50 1.75
4	TTWW-m	MT20	4.0	8.0	1.75 4.00
5	TMVW-w	MT20	2.0	4.0	
6	TTWW-m	MT20	4.0	8.0	1.75 4.00
7	TMVW-t	MT20	3.0	4.0	1.50 1.75
8	TMVW-t	MT20	4.0	8.0	1.75 3.00
10	BMV1+p	MT20	2.0	4.0	2.25 1.00
11	BMVW-t	MT20	4.0	5.0	1.50 1.50
12	BMVW-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	4.0	5.0	1.50 1.50
18	BMV1+p	MT20	2.0	4.0	2.25 1.00

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
18	1852	0	1852	0	0
10	1852	0	1852	0	0

UNFACTORED REACTIONS		1ST LCASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
18	1297	921 / 0	0 / 0
10	1297	921 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18, 10

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.77 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING		TOTAL LOAD CASES: (4)					
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	TO				
1-2	0 / 23	-77.3	-77.3 0.10 (1)	10.00	17-3	-197 / 48	
2-3	-2634 / 0	-77.3	-77.3 0.56 (1)	3.77	3-16	-429 / 0	
3-4	-2284 / 0	-77.3	-77.3 0.50 (1)	4.05	16-4	0 / 340	
4-5	-2274 / 0	-77.3	-77.3 0.40 (1)	4.16	4-14	0 / 405	
5-6	-2274 / 0	-77.3	-77.3 0.40 (1)	4.16	14-5	-542 / 0	
6-7	-2284 / 0	-77.3	-77.3 0.50 (1)	4.05	14-6	0 / 405	
7-8	-2634 / 0	-77.3	-77.3 0.56 (1)	3.77	12-6	0 / 340	
8-9	0 / 23	-77.3	-77.3 0.10 (1)	10.00	12-7	-429 / 0	
18-2	-1803 / 0	0.0	0.0 0.18 (1)	6.23	11-7	-197 / 48	
10-8	-1803 / 0	0.0	0.0 0.18 (1)	6.23	2-17	0 / 2399	
					11-8	0 / 2399	
18-17	0 / 0	-17.5	-17.5 0.17 (4)	10.00			
17-16	0 / 2378	-17.5	-17.5 0.45 (1)	10.00			
16-15	0 / 2023	-17.5	-17.5 0.40 (1)	10.00			
15-14	0 / 2023	-17.5	-17.5 0.40 (1)	10.00			
14-13	0 / 2023	-17.5	-17.5 0.40 (1)	10.00			
13-12	0 / 2023	-17.5	-17.5 0.40 (1)	10.00			
12-11	0 / 2378	-17.5	-17.5 0.45 (1)	10.00			
11-10	0 / 0	-17.5	-17.5 0.17 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

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 (1.23")
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
ALLOWABLE DEFL.(TL)= L/360 (1.23")
CALCULATED VERT. DEFL.(TL) = L/999 (0.27")

CSI: TC=0.56 (2-3:1), BC=0.45 (16-17:1), WB=0.55 (5-14:1), SSI=0.21 (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.

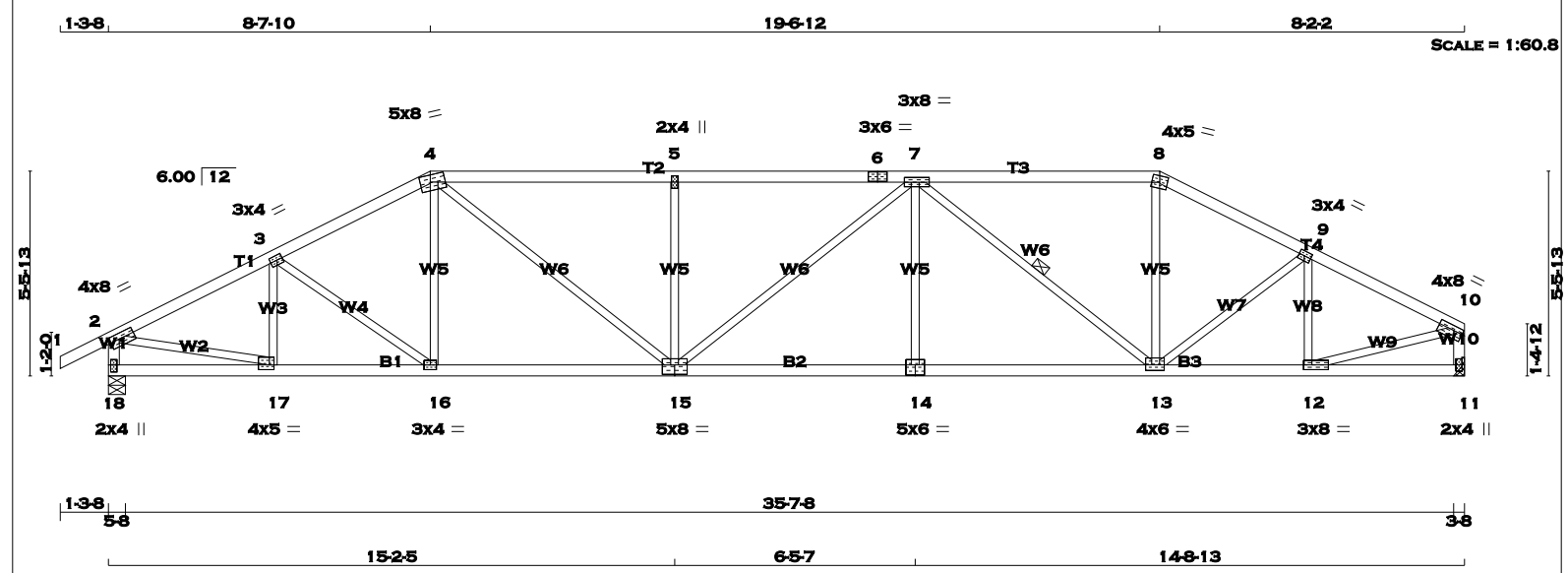
JSI GRIP= 0.87 (11) (INPUT = 0.90)
JSI METAL= 0.71 (11) (INPUT = 1.00)



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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 6 - 8 2x4 DRY No.2 SPF 8 - 10 2x4 DRY No.2 SPF 18 - 2 2x4 DRY No.2 SPF 11 - 10 2x4 DRY No.2 SPF 18 - 15 2x4 DRY No.2 SPF 15 - 14 2x4 DRY No.2 SPF 14 - 11 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT BRG REQRD BRG JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX 18 1830 0 1830 0 0 5-8 5-8 11 1725 0 1725 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 18 1282 910 / 0 0 / 0 0 / 0 0 / 0 372 / 0 0 / 0 11 1211 847 / 0 0 / 0 0 / 0 0 / 0 364 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.38 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 7-13. DBS = 12-0-0 . CBF = 82 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: (4) CHORDS MAX. FACTORED FORCE VERT. LOAD LC1 MAX CS1 (LC) MAX. UNBRAC LENGTH FR-TO FROM TO 1- 2 0 / 23 -77.3 -77.3 0.10 (1) 10.00 17- 3 -369 / 0 0.07 (1) 2- 3 -2481 / 0 -77.3 -77.3 0.32 (1) 4.10 3-16 -41 / 0 0.02 (1) 3- 4 -2478 / 0 -77.3 -77.3 0.31 (1) 4.10 16- 4 0 / 130 0.04 (4) 4- 5 -3008 / 0 -77.3 -77.3 0.75 (1) 3.39 4-15 0 / 1028 0.23 (1) 5- 6 -3008 / 0 -77.3 -77.3 0.75 (1) 3.38 15- 5 -546 / 0 0.25 (1) 6- 7 -3008 / 0 -77.3 -77.3 0.75 (1) 3.38 15- 7 0 / 34 0.01 (1) 7- 8 -2134 / 0 -77.3 -77.3 0.61 (1) 4.03 14- 7 0 / 129 0.04 (4) 8- 9 -2386 / 0 -77.3 -77.3 0.27 (1) 4.21 7-13 -1089 / 0 0.50 (1) 9-10 -2280 / 0 -77.3 -77.3 0.27 (1) 4.29 13- 8 0 / 735 0.17 (1) 18- 2 -1791 / 0 0.0 0.0 0.18 (1) 6.24 13- 9 0 / 84 0.02 (1) 11-10 -1688 / 0 0.0 0.0 0.17 (1) 6.39 12- 9 -472 / 0 0.10 (1) 18-17 0 / 0 -17.5 -17.5 0.08 (4) 10.00 12-10 0 / 2120 0.48 (1) 17-16 0 / 2233 -17.5 -17.5 0.43 (1) 10.00 16-15 0 / 2202 -17.5 -17.5 0.42 (1) 10.00 15-14 0 / 2982 -17.5 -17.5 0.55 (1) 10.00 14-13 0 / 2982 -17.5 -17.5 0.55 (1) 10.00 13-12 0 / 2052 -17.5 -17.5 0.40 (1) 10.00 12-11 0 / 0 -17.5 -17.5 0.07 (4) 10.00										DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 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 (1.21") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.20") ALLOWABLE DEFL.(TL)= L/360 (1.21") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.36") CSI: TC=0.75 (4-5:1) , BC=0.55 (14-15:1) , WB=0.51 (2-17:1) , SSI=0.24 (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= 0.88 (11) (INPUT = 0.90) JSI METAL= 0.67 (17) (INPUT = 1.00)									
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LICENSED PROFESSIONAL ENGINEER

PAUL TREVISAN

100136551

March 14th, 2017

PROVINCE OF ONTARIO

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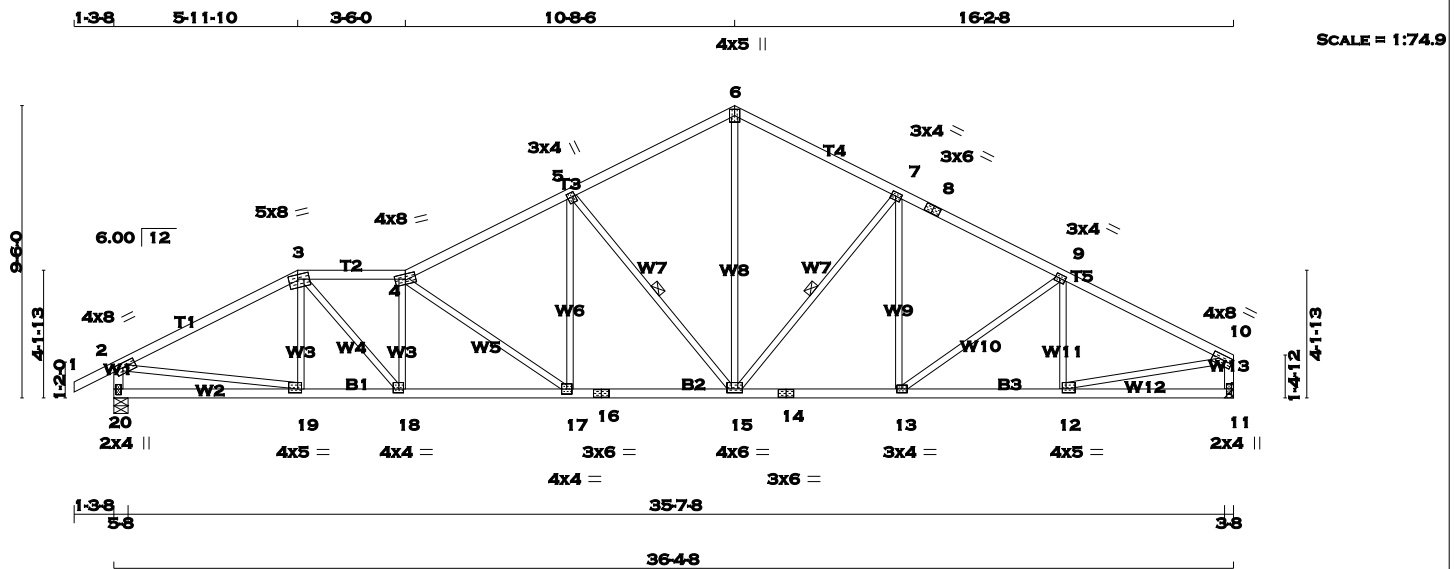
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IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 154 lb
[M][F]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
3 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
6 - 8	2x4	DRY	No.2
8 - 10	2x4	DRY	No.2
20 - 2	2x4	DRY	No.2
11 - 10	2x4	DRY	No.2
20 - 16	2x4	DRY	No.2
16 - 14	2x4	DRY	No.2
14 - 11	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
2	TMVW-t	MT20	4.0	8.0 1.75 3.00
3	TTWW-m	MT20	5.0	8.0 1.75 3.50
4	TTWW-m	MT20	4.0	8.0
5	TMVW+t	MT20	3.0	4.0 1.75 0.75
6	TTW+p	MT20	4.0	5.0
7	TMVW-t	MT20	3.0	4.0 1.50 1.75
8	TS-t	MT20	3.0	6.0
9	TMVW-t	MT20	3.0	4.0 1.50 1.75
10	TMVW-t	MT20	4.0	8.0 1.75 Edge
11	BMV1+p	MT20	2.0	4.0
12	BMVW-t	MT20	4.0	5.0 1.50 1.50
13	BMVW-t	MT20	3.0	4.0
14	BS-t	MT20	3.0	6.0
15	BMVW+t	MT20	4.0	6.0 1.50 3.00
16	BS-t	MT20	3.0	6.0
17	BMVW-t	MT20	4.0	4.0
18	BMVW-t	MT20	4.0	4.0 1.50 1.75
19	BMVW-t	MT20	4.0	5.0 1.50 1.50
20	BMV1+p	MT20	2.0	4.0 2.25 1.00

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	
JT	VERT	DOWN	UP
20	1830	0	0
11	1725	0	0

UNFACTORED REACTIONS							
JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
20	1282	910 / 0	0 / 0	0 / 0	0 / 0	372 / 0	0 / 0
11	1211	847 / 0	0 / 0	0 / 0	0 / 0	364 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.80 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 5-15. DBS = 12-0-0. CBF = 80 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-15. DBS = 20-0-0. CBF = 71 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: (4)			
C H O R D S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)
FR-TO			
1-2	0 / 23	-77.3	-77.3 0.10 (1)
2-3	-2521 / 0	-77.3	-77.3 0.48 (1)
3-4	-3111 / 0	-77.3	-77.3 0.23 (1)
4-5	-2627 / 0	-77.3	-77.3 0.39 (1)
5-6	-1913 / 0	-77.3	-77.3 0.34 (1)
6-7	-1909 / 0	-77.3	-77.3 0.31 (1)
7-8	-2295 / 0	-77.3	-77.3 0.32 (1)
8-9	-2295 / 0	-77.3	-77.3 0.32 (1)
9-10	-2403 / 0	-77.3	-77.3 0.38 (1)
20-2	-1784 / 0	0.0	0.0 0.18 (1)
11-10	-1683 / 0	0.0	0.0 0.17 (1)
20-19	0 / 0	-17.5	-17.5 0.13 (4)
19-18	0 / 2247	-17.5	-17.5 0.42 (1)
18-17	0 / 3136	-17.5	-17.5 0.57 (1)
17-16	0 / 2370	-17.5	-17.5 0.44 (1)
16-15	0 / 2370	-17.5	-17.5 0.44 (1)
15-14	0 / 2052	-17.5	-17.5 0.39 (1)
14-13	0 / 2052	-17.5	-17.5 0.39 (1)
13-12	0 / 2165	-17.5	-17.5 0.39 (1)
12-11	0 / 0	-17.5	-17.5 0.12 (4)
W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	MAX. UNBRACED LENGTH (LC)
FR-TO			
19-3	-216 / 18	0.06 (1)	
3-18	0 / 1306	0.29 (1)	
18-4	-924 / 0	0.24 (1)	
4-17	-944 / 0	0.76 (1)	
17-5	0 / 651	0.15 (1)	
5-15	-1070 / 0	0.52 (1)	
15-6	0 / 1366	0.31 (1)	
6-17	-569 / 0	0.27 (1)	
17-13	0 / 171	0.04 (4)	
13-9	-139 / 0	0.11 (1)	
9-12	-323 / 0	0.08 (1)	
12-19	0 / 2276	0.51 (1)	
12-10	0 / 2206	0.50 (1)	

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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 (1.21")
CALCULATED VERT. DEFL.(LL) = L/999 (0.19")
ALLOWABLE DEFL.(TL)= L/360 (1.21")
CALCULATED VERT. DEFL.(TL) = L/999 (0.34")

CSI: TC=0.48 (2-3:1), BC=0.57 (17-18:1), WB=0.76 (4-17:1), SSI=0.18 (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.

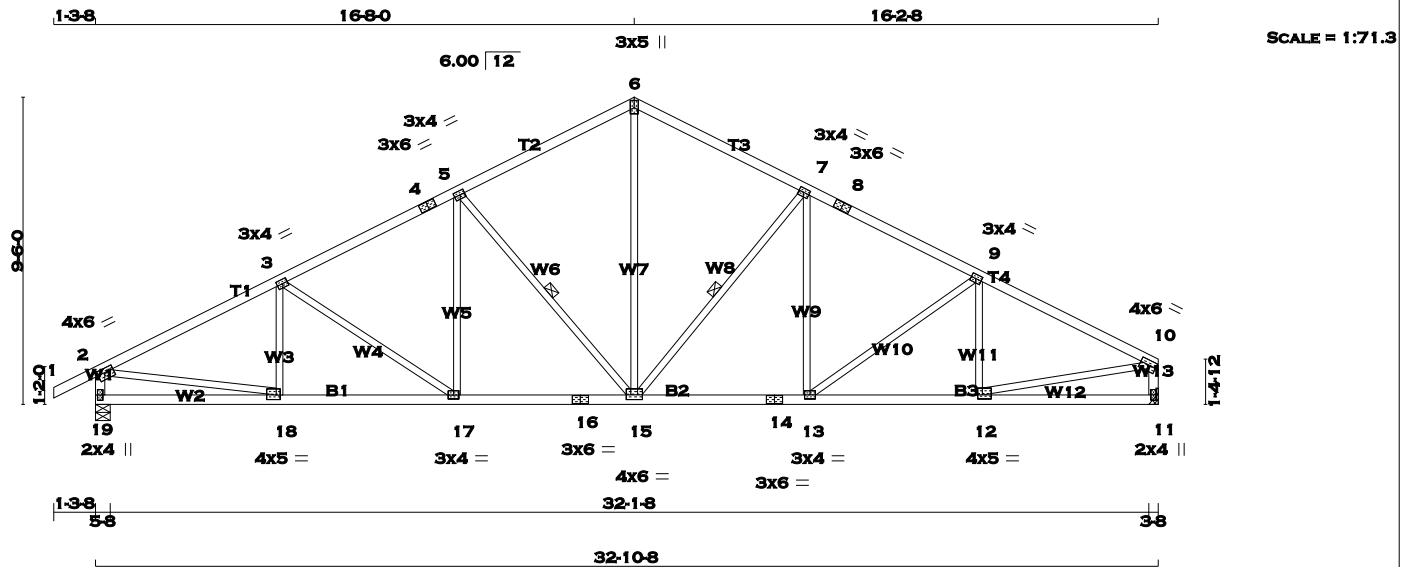
JSI GRIP= 0.88 (11) (INPUT = 0.90)
JSI METAL= 0.67 (19) (INPUT = 1.00)



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TOTAL WEIGHT = 4 X 138 = 554 lb [M][F]

LUMBER		N. L. G. A. RULES		LUMBER	DESCR.
CHORDS	SIZE				
1 - 4	2x4	DRY	No.2	SPF	
4 - 6	2x4	DRY	No.2	SPF	
6 - 8	2x4	DRY	No.2	SPF	
8 - 10	2x4	DRY	No.2	SPF	
19 - 2	2x4	DRY	No.2	SPF	
11 - 10	2x4	DRY	No.2	SPF	
19 - 16	2x4	DRY	No.2	SPF	
16 - 14	2x4	DRY	No.2	SPF	
14 - 11	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.50	2.75
3, 5, 7, 9						
3	TMVW-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
6	TTW+p	MT20	3.0	5.0	2.75	1.50
8	TS-t	MT20	3.0	6.0		
10	TMVW-t	MT20	4.0	6.0	1.75	2.75
11	BMV1+p	MT20	2.0	4.0		
12	BMVW-t	MT20	4.0	5.0	1.50	1.75
13	BMVW-t	MT20	3.0	4.0		
14	BS-t	MT20	3.0	6.0		
15	BMVWW-t	MT20	4.0	6.0	1.75	3.00
16	BS-t	MT20	3.0	6.0		
17	BMVW-t	MT20	3.0	4.0		
18	BMVW-t	MT20	4.0	5.0	1.75	1.50
19	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MIITEK 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	REQRD
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
19	1664	0	1664	0	0
11	1559	0	1559	0	0

MIN. SEAT SIZE: 3-8

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
19	1165	829 / 0	0 / 0	0 / 0	0 / 0	337 / 0	0 / 0
11	1094	765 / 0	0 / 0	0 / 0	0 / 0	329 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.20 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-15, 7-15. DBS = 20-0-0 . CBF = 82 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: (4)							

C H O R D S				W E B S			
MEMB.	MAX. FACTORED	FACTORED		MEMB.	MAX. FACTORED	FACTORED	
	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX		FORCE (LBS)	MAX	
FR-TO		FROM TO	CSI (LC)	UNBRAC	FR-TO		
1-2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	18-3	-205 / 31
2-3	-2276 / 0	-77.3	-77.3	0.39 (1)	4.20	3-17	-275 / 0
3-4	-2039 / 0	-77.3	-77.3	0.32 (1)	4.47	17-5	0 / 247
4-5	-2039 / 0	-77.3	-77.3	0.32 (1)	4.47	5-15	-655 / 0
5-6	-1582 / 0	-77.3	-77.3	0.31 (1)	4.94	15-6	0 / 1060
6-7	-1582 / 0	-77.3	-77.3	0.29 (1)	4.96	15-7	-595 / 0
7-8	-1986 / 0	-77.3	-77.3	0.30 (1)	4.54	13-7	0 / 199
8-9	-1986 / 0	-77.3	-77.3	0.30 (1)	4.54	13-9	-187 / 0
9-10	-2137 / 0	-77.3	-77.3	0.36 (1)	4.34	12-9	-275 / 8
19-2	-1620 / 0	0.0	0.0	0.16 (1)	6.50	2-18	0 / 2075
11-10	-1517 / 0	0.0	0.0	0.16 (1)	6.67	12-10	0 / 1964
19-18	0 / 0	-17.5	-17.5	0.12 (4)	10.00		
18-17	0 / 2052	-17.5	-17.5	0.38 (1)	10.00		
17-16	0 / 1824	-17.5	-17.5	0.36 (1)	10.00		
16-15	0 / 1824	-17.5	-17.5	0.36 (1)	10.00		
15-14	0 / 1776	-17.5	-17.5	0.35 (1)	10.00		
14-13	0 / 1776	-17.5	-17.5	0.35 (1)	10.00		
13-12	0 / 1927	-17.5	-17.5	0.36 (1)	10.00		
12-11	0 / 0	-17.5	-17.5	0.12 (4)	10.00		

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

SPACING = 24.0 IN./C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.10")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.11")
ALLOWABLE DEFL.(TL)= L/360 (1.10")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.20")

CSI: TC=0.39 (2-3:1) , BC=0.38 (17-18:1) , WB=0.47 (2-18:1) , SSI=0.18 (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.

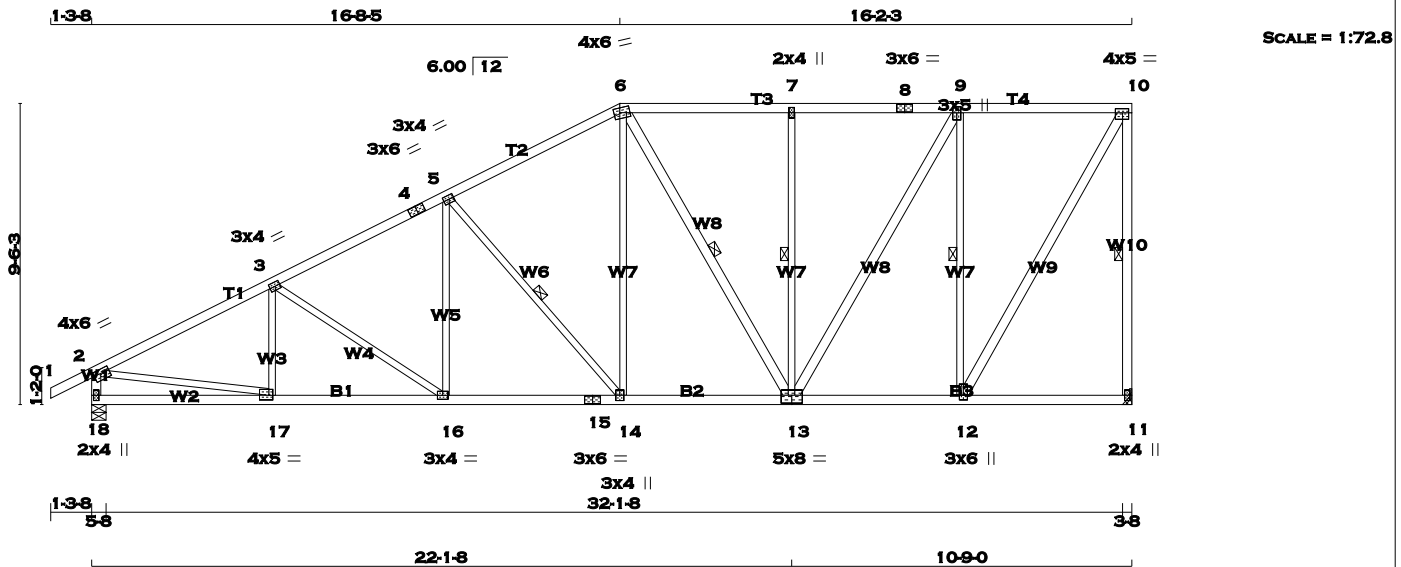
JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.62 (18) (INPUT = 1.00)



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LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2	4 - 6	2x4	DRY	No.2
6 - 8	2x4	DRY	No.2	6 - 8	2x4	DRY	No.2
8 - 10	2x4	DRY	No.2	8 - 10	2x4	DRY	No.2
11 - 10	2x4	DRY	No.2	11 - 10	2x4	DRY	No.2
18 - 2	2x4	DRY	No.2	18 - 2	2x4	DRY	No.2
18 - 15	2x4	DRY	No.2	18 - 15	2x4	DRY	No.2
15 - 13	2x4	DRY	No.2	15 - 13	2x4	DRY	No.2
13 - 11	2x4	DRY	No.2	13 - 11	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2	ALL WEBS EXCEPT	2x3	DRY	No.2
6 - 13	2x4	DRY	No.2	6 - 13	2x4	DRY	No.2
13 - 9	2x4	DRY	No.2	13 - 9	2x4	DRY	No.2
12 - 10	2x4	DRY	No.2	12 - 10	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.50	2.75
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
5	TMWW-t	MT20	3.0	4.0	1.50	1.75
6	TTWW-m	MT20	4.0	6.0	1.75	2.25
7	TMW-w	MT20	2.0	4.0		
8	TS-t	MT20	3.0	6.0		
9	TMWW-t	MT20	3.0	5.0	2.25	1.50
10	TMVW-t	MT20	4.0	5.0	1.50	2.25
11	BMV1+p	MT20	2.0	4.0		
12	BMWW-t	MT20	3.0	6.0	1.75	1.50
13	BSWWW-l	MT20	5.0	8.0	3.00	4.00
14	BMWW-t	MT20	3.0	4.0		
15	BS-t	MT20	3.0	6.0		
16	BMWW-t	MT20	3.0	4.0		
17	BMWW-t	MT20	4.0	5.0	1.75	1.50
18	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MI TEK 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	JT	HORZ	JT	UPLIFT	JT	UPLIFT
11	1559	0	1559	0	0	11	1559
18	1664	0	1664	0	0	18	1664

UNFACTORED REACTIONS		MAX./MIN. COMPONENT REACTIONS		PERM. LIVE		DEAD		SOIL	
JT	COMBINED	JT	LIVE	JT	WIND	JT	DEAD	JT	SOIL
11	1094	765 / 0	0 / 0	0 / 0	0 / 0	11	329 / 0	0 / 0	0 / 0
18	1165	829 / 0	0 / 0	0 / 0	0 / 0	18	337 / 0	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.20 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

- 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 10-11. DBS = 8-0-0. CBF = 76 LBS.
- 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-14, 6-13, 7-13. DBS = 20-0-0. CBF = 83 LBS.
- 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 9-12. DBS = 12-0-0. CBF = 93 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: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO	FR-TO	FR-TO	FR-TO
1-2	0 / 23	17-3	-204 / 31
2-3	-2276 / 0	3-16	-276 / 0
3-4	-2039 / 0	4-7	0 / 250
4-5	-2039 / 0	5-14	-663 / 0
5-6	-1572 / 0	6-13	0 / 601
6-7	-1250 / 0	7-8	-287 / 0
7-8	-1250 / 0	8-9	-453 / 0
8-9	-1250 / 0	9-10	0 / 909
9-10	-795 / 0	10-11	-1243 / 0
11-10	-1521 / 0	12-10	0 / 1568
18-2	-1620 / 0	2-17	0 / 2075
18-17	0 / 0	17-16	-17.5 / 0.12 (4)
17-16	0 / 2052	16-15	-17.5 / 0.38 (1)
16-15	0 / 1823	15-14	-17.5 / 0.35 (1)
15-14	0 / 1823	14-13	-17.5 / 0.35 (1)
14-13	0 / 1396	13-12	-17.5 / 0.28 (1)
13-12	0 / 795	12-11	-17.5 / 0.20 (1)
12-11	0 / 0		-17.5 / 0.12 (4)

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 6.00/12

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 (1.10")
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (1.10")
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.19")

CSI: TC=0.65 (10-11:1), BC=0.38 (16-17:1), WB=0.75 (9-12:1), SSI=0.20 (9-10:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

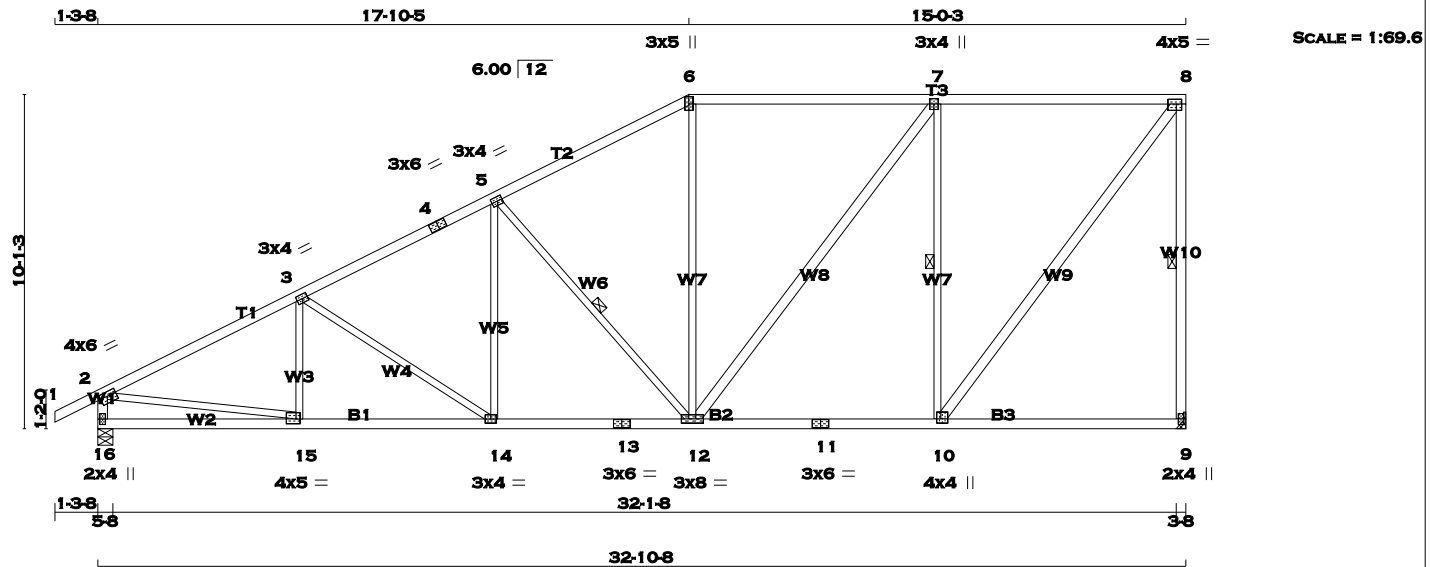
JSI GRIP= 0.89 (17) (INPUT = 0.90)
JSI METAL= 0.62 (17) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 159 = 318 lb
[M][F]

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
9 - 8	2x4	DRY	No.2
16 - 2	2x4	DRY	No.2
16 - 13	2x4	DRY	No.2
13 - 11	2x4	DRY	No.2
11 - 9	2x4	DRY	No.2

ALL WEBS			
EXCEPT	SIZE	LUMBER	DESCR.
12 - 7	2x4	DRY	No.2
10 - 8	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.50	2.75
3	TMVW-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
5	TMVW-t	MT20	3.0	4.0	1.50	1.75
6	TTW+p	MT20	3.0	5.0	2.75	1.50
7	TMVW-t	MT20	3.0	4.0		
8	TMVW-t	MT20	4.0	5.0	1.75	2.00
9	BMV1+p	MT20	2.0	4.0		
10	BMVW-t	MT20	4.0	4.0	1.50	1.50
11	BS-t	MT20	3.0	6.0		
12	BMVW-t	MT20	3.0	8.0		
13	BS-t	MT20	3.0	6.0		
14	BMVW-t	MT20	3.0	4.0		
15	BMVW-t	MT20	4.0	5.0	1.75	1.50
16	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MIITEK 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	JT	HORZ	DOWN	HORZ	IN-SX	IN-SX
9	1559	0	1559	0	0	HANGER BY OTHERS	
16	1664	0	1664	0	0	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS		PERM.LIVE		WIND		DEAD		SOIL	
JT	COMBINED	JT	SNOW	JT	LIVE	JT	WIND	JT	DEAD	JT	SOIL
9	1094	765 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	329 / 0	0 / 0	0 / 0	0 / 0
16	1165	829 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	337 / 0	0 / 0	0 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.13 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 8-9. DBS = 8-0-0. CBF = 75 LBS.
- 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-12. DBS = 20-0-0. CBF = 91 LBS.
- 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-10. DBS = 12-0-0. CBF = 85 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: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC1)	MEMB.
FR-TO		FROM TO		FR-TO			
1-2	0 / 23	-77.3 -77.3	0.10 (1)	10.00	15-3	-177 / 46	0.05 (1)
2-3	-2285 / 0	-77.3 -77.3	0.45 (1)	4.13	3-14	-339 / 0	0.32 (1)
3-4	-1988 / 0	-77.3 -77.3	0.36 (1)	4.47	14-5	0 / 288	0.06 (1)
4-5	-1988 / 0	-77.3 -77.3	0.36 (1)	4.47	5-12	-729 / 0	0.42 (1)
5-6	-1472 / 0	-77.3 -77.3	0.35 (1)	5.03	12-6	0 / 247	0.06 (1)
6-7	-1300 / 0	-77.3 -77.3	0.61 (1)	4.81	12-7	0 / 521	0.08 (1)
7-8	-986 / 0	-77.3 -77.3	0.59 (1)	5.37	10-7	-1138 / 0	0.79 (1)
9-8	-1507 / 0	0.0 0.0	0.75 (1)	5.35	10-8	0 / 1622	0.26 (1)
16-2	-1618 / 0	0.0 0.0	0.16 (1)	6.50	2-15	0 / 2081	0.47 (1)
16-15	0 / 0	-17.5 -17.5	0.14 (4)	10.00			
15-14	0 / 2061	-17.5 -17.5	0.39 (1)	10.00			
14-13	0 / 1778	-17.5 -17.5	0.37 (1)	10.00			
13-12	0 / 1778	-17.5 -17.5	0.37 (1)	10.00			
12-11	0 / 986	-17.5 -17.5	0.32 (4)	10.00			
11-10	0 / 986	-17.5 -17.5	0.32 (4)	10.00			
10-9	0 / 0	-17.5 -17.5	0.25 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

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
- TPC 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 (1.10")
CALCULATED VERT. DEFL.(LL) = L/999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (1.10")
CALCULATED VERT. DEFL.(TL) = L/999 (0.19")

CSI: TC=0.75 (8-9:1), BC=0.39 (14-15:1), WB=0.79 (7-10:1), SSI=0.28 (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.

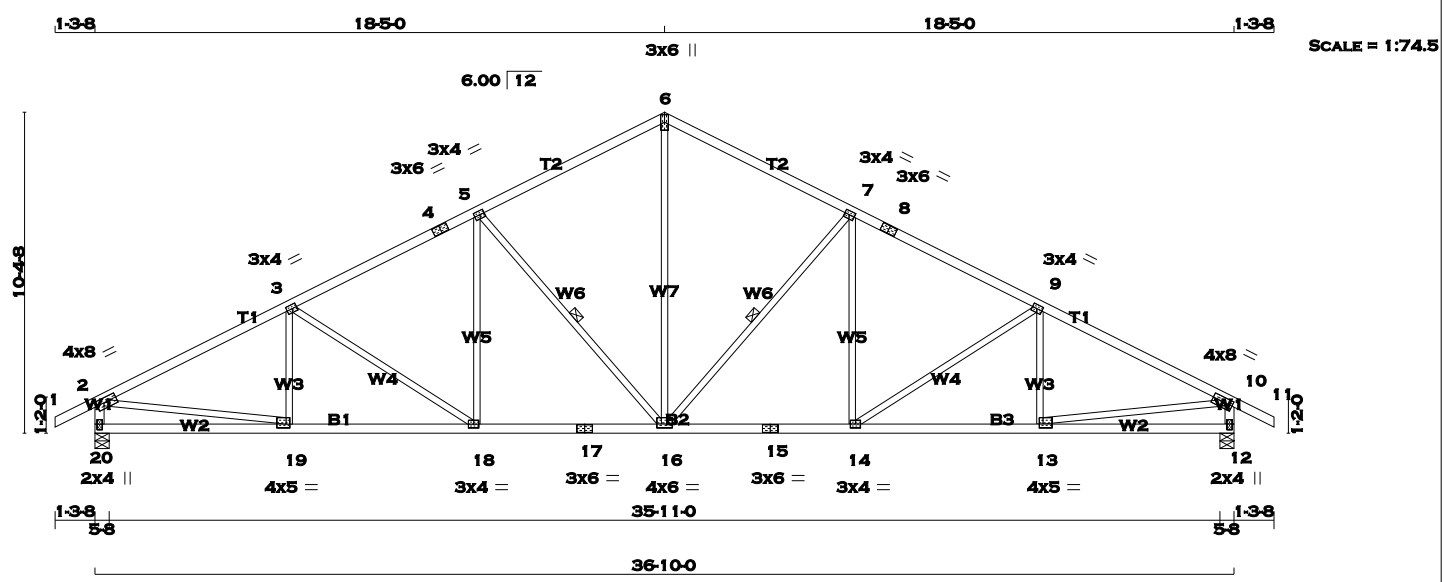
JSI GRIP= 0.89 (8) (INPUT = 0.90)
JSI METAL= 0.62 (15) (INPUT = 1.00)



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TOTAL WEIGHT = 3 X 155 = 464 lb
[M][F]

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 - 11	2x4	DRY	No.2
20 - 2	2x4	DRY	No.2
12 - 10	2x4	DRY	No.2
20 - 17	2x4	DRY	No.2
17 - 15	2x4	DRY	No.2
15 - 12	2x4	DRY	No.2
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	8.0	1.75 3.00
3, 5, 7, 9					
3	TMVW-t	MT20	3.0	4.0	1.50 1.75
4	TS-t	MT20	3.0	6.0	
6	TTW+p	MT20	3.0	6.0	
8	TS-t	MT20	3.0	6.0	
10	TMVW-t	MT20	4.0	8.0	1.75 3.00
12	BMV1+p	MT20	2.0	4.0	2.25 1.00
13	BMVW-t	MT20	4.0	5.0	1.50 1.50
14	BMVW-t	MT20	3.0	4.0	
15	BS-t	MT20	3.0	6.0	
16	BMVW-t	MT20	4.0	6.0	1.50 3.00
17	BS-t	MT20	3.0	6.0	
18	BMVW-t	MT20	3.0	4.0	
19	BMVW-t	MT20	4.0	5.0	1.50 1.50
20	BMV1+p	MT20	2.0	4.0	2.25 1.00

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	
JT	VERT	DOWN	HORZ
20	1852	0	1852
12	1852	0	1852

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
20	1297	921 / 0	0 / 0	0 / 0	0 / 0	376 / 0	0 / 0
12	1297	921 / 0	0 / 0	0 / 0	0 / 0	376 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.85 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-16, 5-16. DBS = 20-0-0. CBF = 92 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: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORIZ. LOAD (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (PLF)	UNBRACED LENGTH (FT)
FR-TO		FROM	TO	FR-TO			
1-2	0 / 23	-77.3	-77.3 0.10 (1)	10.00	16-6	0 / 1225	0.28 (1)
2-3	-2616 / 0	-77.3	-77.3 0.52 (1)	3.85	16-7	-735 / 0	0.44 (1)
3-4	-2330 / 0	-77.3	-77.3 0.42 (1)	4.14	14-7	0 / 283	0.06 (1)
4-5	-2330 / 0	-77.3	-77.3 0.42 (1)	4.14	14-9	-327 / 0	0.34 (1)
5-6	-1813 / 0	-77.3	-77.3 0.40 (1)	4.58	13-9	-206 / 41	0.06 (1)
6-7	-1813 / 0	-77.3	-77.3 0.40 (1)	4.58	5-16	-735 / 0	0.44 (1)
7-8	-2330 / 0	-77.3	-77.3 0.42 (1)	4.14	18-5	0 / 283	0.06 (1)
8-9	-2330 / 0	-77.3	-77.3 0.42 (1)	4.14	3-18	-327 / 0	0.34 (1)
9-10	-2616 / 0	-77.3	-77.3 0.52 (1)	3.85	19-3	-206 / 41	0.06 (1)
10-11	0 / 23	-77.3	-77.3 0.10 (1)	10.00	2-19	0 / 2379	0.54 (1)
20-2	-1804 / 0	0.0	0.0 0.18 (1)	6.23	13-10	0 / 2379	0.54 (1)
12-10	-1804 / 0	0.0	0.0 0.18 (1)	6.23			
20-19	0 / 0	-17.5	-17.5 0.15 (4)	10.00			
19-18	0 / 2357	-17.5	-17.5 0.44 (1)	10.00			
18-17	0 / 2084	-17.5	-17.5 0.41 (1)	10.00			
17-16	0 / 2084	-17.5	-17.5 0.41 (1)	10.00			
16-15	0 / 2084	-17.5	-17.5 0.41 (1)	10.00			
15-14	0 / 2084	-17.5	-17.5 0.41 (1)	10.00			
14-13	0 / 2357	-17.5	-17.5 0.44 (1)	10.00			
13-12	0 / 0	-17.5	-17.5 0.15 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.23")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.15")
ALLOWABLE DEFL.(TL)= L/360 (1.23")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.27")

CSI: TC=0.52 (2-3:1), BC=0.44 (18-19:1), WB=0.54 (10-13:1), SSI=0.20 (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)
				MAX MIN	MAX MIN
MT20	618	354	1667	822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

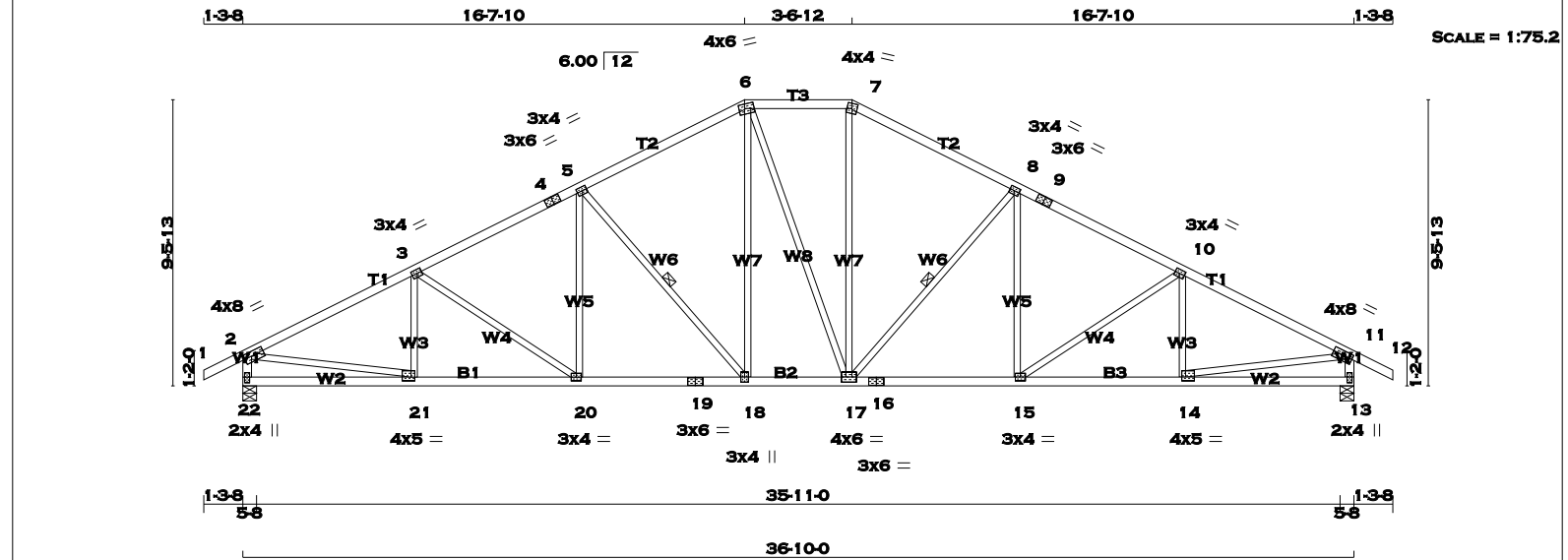
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (6) (INPUT = 0.90)
JSI METAL= 0.71 (13) (INPUT = 1.00)

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LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2	4 - 6	2x4	DRY	No.2
6 - 7	2x4	DRY	No.2	6 - 7	2x4	DRY	No.2
7 - 9	2x4	DRY	No.2	7 - 9	2x4	DRY	No.2
9 - 12	2x4	DRY	No.2	9 - 12	2x4	DRY	No.2
22 - 2	2x4	DRY	No.2	22 - 2	2x4	DRY	No.2
13 - 11	2x4	DRY	No.2	13 - 11	2x4	DRY	No.2
22 - 19	2x4	DRY	No.2	22 - 19	2x4	DRY	No.2
19 - 16	2x4	DRY	No.2	19 - 16	2x4	DRY	No.2
16 - 13	2x4	DRY	No.2	16 - 13	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2	ALL WEBS	2x3	DRY	No.2
EXCEPT				EXCEPT			

DRY: SEASONED LUMBER.

PLATES (table is in inches)							
JT	TYPE	PLATES	W	LEN	Y	X	
2	TMVW-t	MT20	4.0	8.0	1.75	3.00	
3, 5, 8, 10							
3	TMWW-t	MT20	3.0	4.0	1.50	1.75	
4	TS-t	MT20	3.0	6.0			
6	TTWW-m	MT20	4.0	6.0	1.75	2.25	
7	TTW-m	MT20	4.0	4.0			
9	TS-t	MT20	3.0	6.0			
11	TMVW-t	MT20	4.0	8.0	1.75	3.00	
13	BMV1+p	MT20	2.0	4.0	2.25	1.00	
14	BMWW-t	MT20	4.0	5.0	1.50	1.50	
15	BMWW-t	MT20	3.0	4.0			
16	BS-t	MT20	3.0	6.0			
17	BMWWW-t	MT20	4.0	6.0			
18	BMWW-t	MT20	3.0	4.0			
19	BS-t	MT20	3.0	6.0			
20	BMWW-t	MT20	3.0	4.0			
21	BMWW-t	MT20	4.0	5.0	1.50	1.50	
22	BMV1+p	MT20	2.0	4.0	2.25	1.00	

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				DOWN				UPLIFT				IN-SX			
22	1852	0		1852	0			1852	0			5-8				5-8			
13	1852	0		1852	0			1852	0			5-8				5-8			

UNFACTORED REACTIONS							
		1ST LCASE			MAX./MIN. COMPONENT REACTIONS		
		JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
22	1297	921	0		0/0	0/0	376/0
13	1297	921	0		0/0	0/0	376/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 22, 13

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.95 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 5-18, 8-17. DBS = 20-0-0. CBF = 80 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

C H O R D S				W E B S			
		MAX. FACTORED	FACTORED			MAX. FACTORED	FACTORED
		MEMB.	FORCE (LBS)			MEMB.	FORCE (LBS)
			VERT. LOAD				MAX. UNBRAC
			(PLF)				LENGTH
			CSI (LC)				FR-TO
1-2	0/23	-77.3	-77.3	0.10	(1)	10.00	21-3
2-3	-2596/0	-77.3	-77.3	0.42	(1)	3.95	3-20
3-4	-2405/0	-77.3	-77.3	0.34	(1)	4.16	20-5
4-5	-2405/0	-77.3	-77.3	0.34	(1)	4.16	5-18
5-6	-1956/0	-77.3	-77.3	0.33	(1)	4.52	18-6
6-7	-1740/0	-77.3	-77.3	0.16	(1)	4.92	6-17
7-8	-1957/0	-77.3	-77.3	0.33	(1)	4.52	17-7
8-9	-2405/0	-77.3	-77.3	0.34	(1)	4.16	17-8
9-10	-2405/0	-77.3	-77.3	0.34	(1)	4.16	15-8
10-11	-2597/0	-77.3	-77.3	0.42	(1)	3.95	15-10
11-12	0/23	-77.3	-77.3	0.10	(1)	10.00	14-10
22-2	-1807/0	0.0	0.0	0.18	(1)	6.22	2-21
13-11	-1808/0	0.0	0.0	0.18	(1)	6.22	14-11

22-21	0/0	-17.5	-17.5	0.12	(4)	10.00
21-20	0/2338	-17.5	-17.5	0.43	(1)	10.00
20-19	0/2151	-17.5	-17.5	0.40	(1)	10.00
19-18	0/2151	-17.5	-17.5	0.40	(1)	10.00
18-17	0/1738	-17.5	-17.5	0.33	(1)	10.00
17-16	0/2151	-17.5	-17.5	0.40	(1)	10.00
16-15	0/2151	-17.5	-17.5	0.40	(1)	10.00
15-14	0/2338	-17.5	-17.5	0.43	(1)	10.00
14-13	0/0	-17.5	-17.5	0.12	(4)	10.00

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

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 (1.23")
CALCULATED VERT. DEFL.(LL) = L/999 (0.14")
ALLOWABLE DEFL.(TL)= L/360 (1.23")
CALCULATED VERT. DEFL.(TL) = L/999 (0.26")

CSI: TC=0.42 (10-11:1), BC=0.43 (20-21:1), WB=0.53 (11-14:1), SSI=0.18 (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

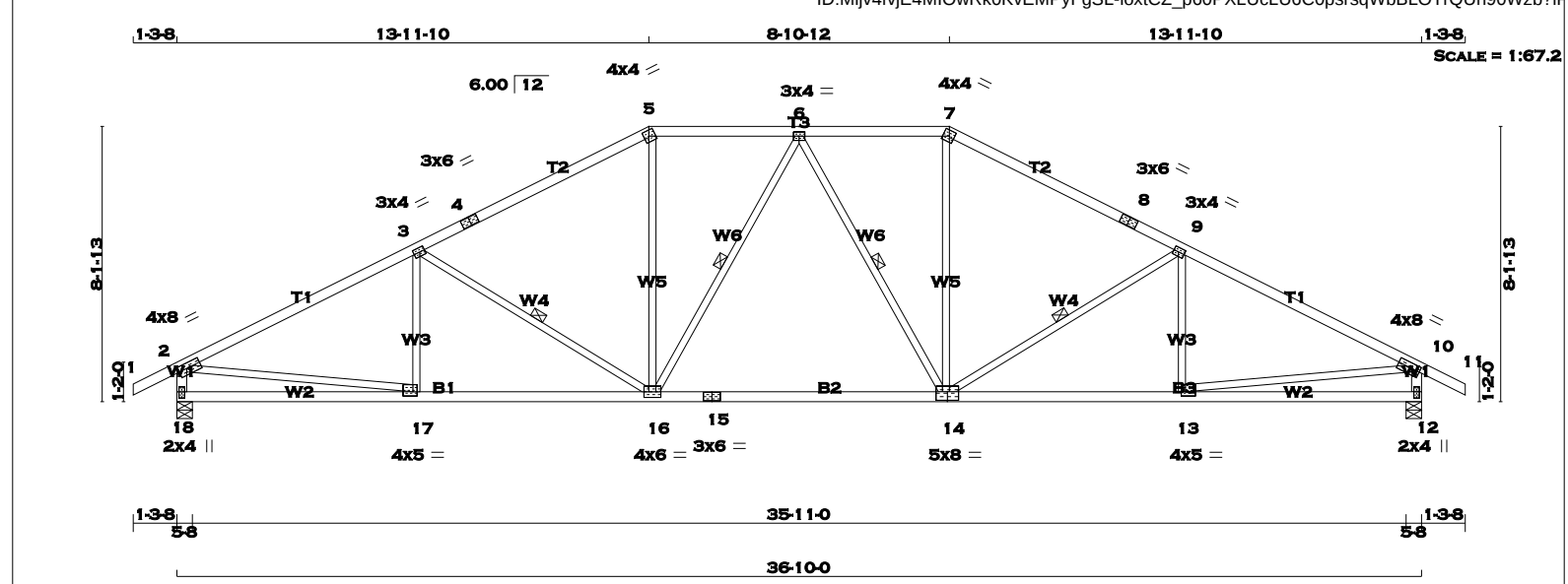
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (7) (INPUT = 0.90)
JSI METAL= 0.70 (14) (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 - 5

2x4

DRY

No.2

SPF

5 - 7

2x4

DRY

No.2

SPF

7 - 8

2x4

DRY

No.2

SPF

8 - 11

2x4

DRY

No.2

SPF

18 - 2

2x4

DRY

No.2

SPF

12 - 10

2x4

DRY

No.2

SPF

18 - 15

2x4

DRY

No.2

SPF

15 - 14

2x4

DRY

No.2

SPF

14 - 12

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

EXCEPT

DRY: SEASONED LUMBER.

TOTAL WEIGHT = 150 lb

[M][F]

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		1852	0	1852	0	0	5-8	5-8	
12		1852	0	1852	0	0	5-8	5-8	

UNFACTORED REACTIONS									
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
18		1297	921 / 0	0 / 0	0 / 0	0 / 0	376 / 0	0 / 0	
12		1297	921 / 0	0 / 0	0 / 0	0 / 0	376 / 0	0 / 0	

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18, 12

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.60 FT.

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

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 3-16, 6-16, 6-14, 9-14. 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: (4)

CHORDS									
		MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD (PLF)		MAX. FACTORED UNBRACED LENGTH (LC)		WEBS	
MEMB.		FORCE		LOAD		MAX.		MEMB.	
FR-TO								FR-TO	
1-2		0 / 23		-77.3	-77.3	0.10 (1)	10.00	17-3	
2-3		-2641 / 0		-77.3	-77.3	0.70 (1)	3.60	3-16	
3-4		-2196 / 0		-77.3	-77.3	0.62 (1)	3.97	16-5	
4-5		-2196 / 0		-77.3	-77.3	0.62 (1)	3.97	16-6	
5-6		-1945 / 0		-77.3	-77.3	0.23 (1)	4.63	6-14	
6-7		-1944 / 0		-77.3	-77.3	0.23 (1)	4.63	14-7	
7-8		-2198 / 0		-77.3	-77.3	0.62 (1)	3.97	14-9	
8-9		-2198 / 0		-77.3	-77.3	0.62 (1)	3.97	13-9	
9-10		-2641 / 0		-77.3	-77.3	0.70 (1)	3.60	2-17	
10-11		0 / 23		-77.3	-77.3	0.10 (1)	10.00	13-10	
18-2		-1798 / 0		0.0	0.0	0.18 (1)	6.23		
12-10		-1798 / 0		0.0	0.0	0.18 (1)	6.23		
18-17		0 / 0		-17.5	-17.5	0.18 (4)	10.00		
17-16		0 / 2388		-17.5	-17.5	0.51 (1)	10.00		
16-15		0 / 2060		-17.5	-17.5	0.46 (1)	10.00		
15-14		0 / 2060		-17.5	-17.5	0.46 (1)	10.00		
14-13		0 / 2387		-17.5	-17.5	0.51 (1)	10.00		
13-12		0 / 0		-17.5	-17.5	0.18 (4)	10.00		

ALLOWABLE DEFL.(LL)= L/360 (1.23")

CALCULATED VERT. DEFL.(LL) = L/999 (0.14")

ALLOWABLE DEFL.(TL)= L/360 (1.23")

CALCULATED VERT. DEFL.(TL) = L/999 (0.33")

CSI: TC=0.70 (2-3:1), BC=0.51 (16-17:1), WB=0.54 (2-17:1), SSI=0.24 (9-10:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.72 (13) (INPUT = 1.00)

RECEIVED

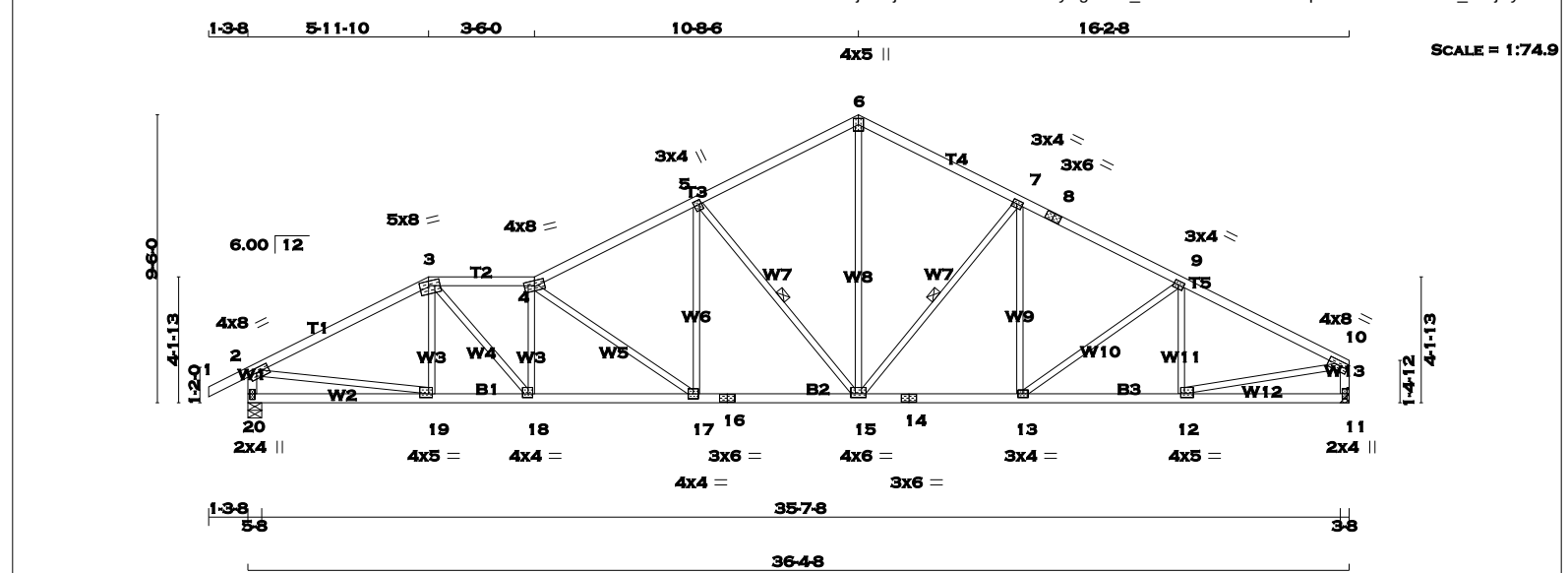
TOWN OF MILTON

MAR 29, 2017

17-5181

BUILDING DIVISION

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



TOTAL WEIGHT = 154 lb
[M][F]

LUMBER				N. L. G. A. RULES			
CHORDS		SIZE		LUMBER		DESCR.	
1 - 3	2x4	DRY	No.2	SPF			
3 - 4	2x4	DRY	No.2	SPF			
4 - 6	2x4	DRY	No.2	SPF			
6 - 8	2x4	DRY	No.2	SPF			
8 - 10	2x4	DRY	No.2	SPF			
20 - 2	2x4	DRY	No.2	SPF			
11 - 10	2x4	DRY	No.2	SPF			
20 - 16	2x4	DRY	No.2	SPF			
16 - 14	2x4	DRY	No.2	SPF			
14 - 11	2x4	DRY	No.2	SPF			
ALL WEBS	2x3	DRY	No.2	SPF			
EXCEPT							

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	8.0	1.75	3.00
3	TTWW-m	MT20	5.0	8.0	1.75	3.50
4	TTWW-m	MT20	4.0	8.0		
5	TMVW+t	MT20	3.0	4.0	1.75	0.75
6	TTW+p	MT20	4.0	5.0		
7	TMVW-t	MT20	3.0	4.0	1.50	1.75
8	TS-t	MT20	3.0	6.0		
9	TMVW-t	MT20	3.0	4.0	1.50	1.75
10	TMVW-t	MT20	4.0	8.0	1.75	Edge
11	BMV1+p	MT20	2.0	4.0		
12	BMVW-t	MT20	4.0	5.0	1.50	1.50
13	BMVW-t	MT20	3.0	4.0		
14	BS-t	MT20	3.0	6.0		
15	BMVW+t	MT20	4.0	6.0	1.50	3.00
16	BS-t	MT20	3.0	6.0		
17	BMVW-t	MT20	4.0	4.0		
18	BMVW-t	MT20	4.0	4.0	1.50	1.75
19	BMVW-t	MT20	4.0	5.0	1.50	1.50
20	BMV1+p	MT20	2.0	4.0	2.25	1.00

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			
				DOWN				DOWN				IN-SX				IN-SX			
JT	20	1830	0	1830	0	0	0	1830	0	0	0	5-8	5-8						
11	1725	0	1725	0	0	0	0	1725	0	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
20	1282	910 / 0	0 / 0	0 / 0	0 / 0	0 / 0	372 / 0	0 / 0
11	1211	847 / 0	0 / 0	0 / 0	0 / 0	0 / 0	364 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.80 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 5-15. DBS = 12-0-0. CBF = 80 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-15. DBS = 20-0-0. CBF = 71 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: (4)									
C H O R D S									
MEMB.		MAX. FACTORED		FACTORED		W E B S		MAX. FACTORED	
		FORCE (LBS)		VERT. LOAD (PLF)		MAX. UNBRAC		FORCE (LBS)	
				CSI (LC)		LENGTH FR-TO			
FR-TO									
1-2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	19-3	-216 / 18	0.06 (1)	
2-3	-2521 / 0	-77.3	-77.3	0.48 (1)	3.91	3-18	0 / 1306	0.29 (1)	
3-4	-3111 / 0	-77.3	-77.3	0.23 (1)	3.80	18-4	-924 / 0	0.24 (1)	
4-5	-2627 / 0	-77.3	-77.3	0.39 (1)	3.94	4-17	-944 / 0	0.76 (1)	
5-6	-1913 / 0	-77.3	-77.3	0.34 (1)	4.55	17-5	0 / 651	0.15 (1)	
6-7	-1909 / 0	-77.3	-77.3	0.31 (1)	4.59	5-15	-1070 / 0	0.52 (1)	
7-8	-2295 / 0	-77.3	-77.3	0.32 (1)	4.26	15-6	0 / 1366	0.31 (1)	
8-9	-2295 / 0	-77.3	-77.3	0.32 (1)	4.26	15-7	-569 / 0	0.27 (1)	
9-10	-2403 / 0	-77.3	-77.3	0.38 (1)	4.11	13-7	0 / 171	0.04 (4)	
20-2	-1784 / 0	0.0	0.0	0.18 (1)	6.26	13-9	-139 / 0	0.11 (1)	
11-10	-1683 / 0	0.0	0.0	0.17 (1)	6.40	12-9	-323 / 0	0.08 (1)	
						2-19	0 / 2276	0.51 (1)	
						12-10	0 / 2206	0.50 (1)	
20-19	0 / 0	-17.5	-17.5	0.13 (4)	10.00				
19-18	0 / 2247	-17.5	-17.5	0.42 (1)	10.00				
18-17	0 / 3136	-17.5	-17.5	0.57 (1)	10.00				
17-16	0 / 2370	-17.5	-17.5	0.44 (1)	10.00				
16-15	0 / 2370	-17.5	-17.5	0.44 (1)	10.00				
15-14	0 / 2052	-17.5	-17.5	0.39 (1)	10.00				
14-13	0 / 2052	-17.5	-17.5	0.39 (1)	10.00				
13-12	0 / 2165	-17.5	-17.5	0.39 (1)	10.00				
12-11	0 / 0	-17.5	-17.5	0.12 (4)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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 (1.21")
CALCULATED VERT. DEFL.(LL)= L/999 (0.19")
ALLOWABLE DEFL.(TL)= L/360 (1.21")
CALCULATED VERT. DEFL.(TL)= L/999 (0.34")

CSI: TC=0.48 (2-3:1), BC=0.57 (17-18:1), WB=0.76 (4-17:1), SSI=0.18 (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.

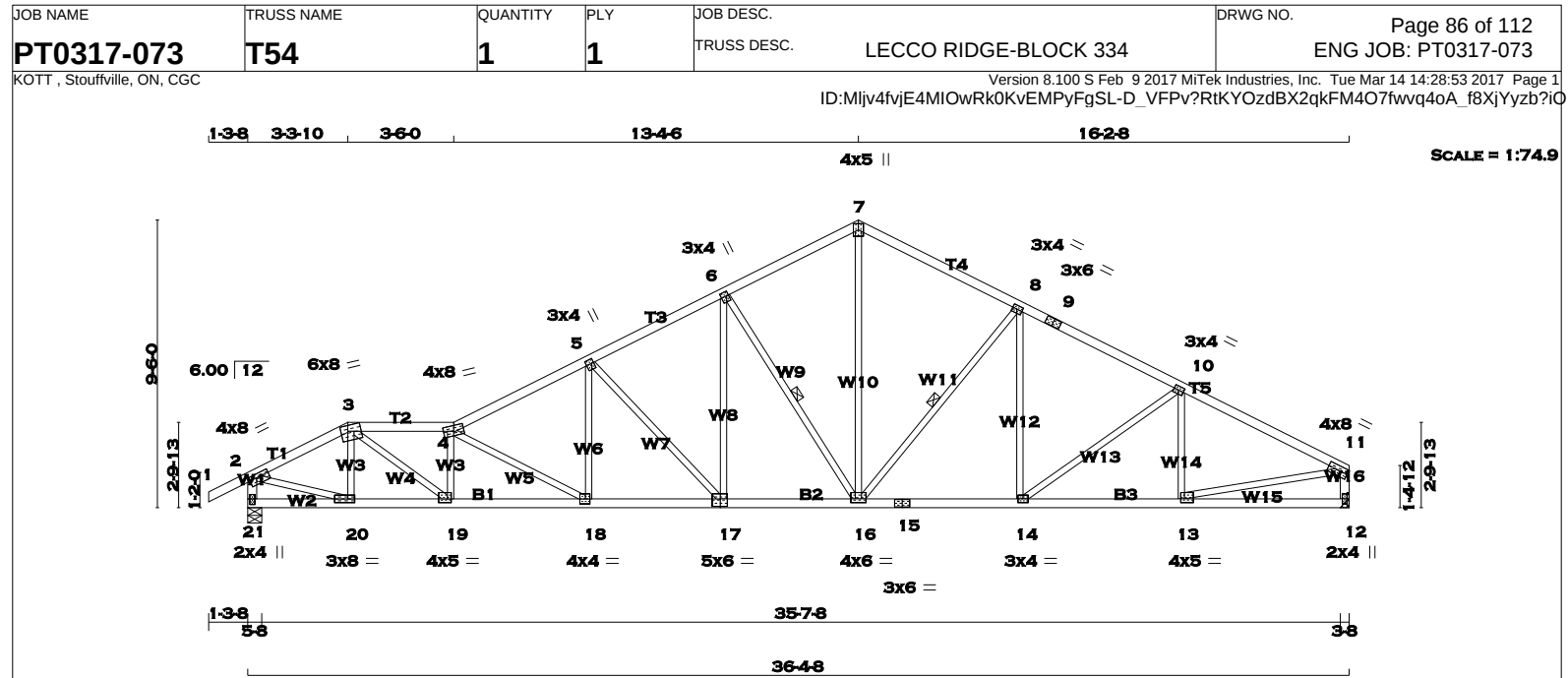
JSI GRIP= 0.88 (11) (INPUT = 0.90)
JSI METAL= 0.67 (19) (INPUT = 1.00)



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BUILDING DIVISION

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





TOTAL WEIGHT = 156 lb [M][F]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
3 - 4	2x4	DRY	No.2
4 - 7	2x4	DRY	No.2
7 - 9	2x4	DRY	No.2
9 - 11	2x4	DRY	No.2
21 - 2	2x4	DRY	No.2
12 - 11	2x4	DRY	No.2
21 - 17	2x4	DRY	No.2
17 - 15	2x4	DRY	No.2
15 - 12	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
2	TMVW-t	MT20	4.0	8.0 1.50 3.00
3	TTWW-m	MT20	6.0	8.0 2.25 2.75
4	TTWW-m	MT20	4.0	8.0 2.25 4.00
5	TMWW+t	MT20	3.0	4.0 1.75 0.75
6	TMWW+t	MT20	3.0	4.0 1.75 0.75
7	TTW+p	MT20	4.0	5.0
8	TMWW-t	MT20	3.0	4.0 1.50 1.75
9	TS-t	MT20	3.0	6.0
10	TMWW-t	MT20	3.0	4.0 1.50 1.75
11	TMVW-t	MT20	4.0	8.0 1.75 Edge
12	BMV1+p	MT20	2.0	4.0
13	BMWW-t	MT20	4.0	5.0 1.50 1.50
14	BMWW-t	MT20	3.0	4.0
15	BS-t	MT20	3.0	6.0
16	BMWWW-t	MT20	4.0	6.0 1.50 3.00
17	BSWW-I	MT20	5.0	6.0 3.00 2.75
18	BMWW-t	MT20	4.0	4.0 2.00 1.75
19	BMWW-t	MT20	4.0	5.0 1.50 1.50
20	BMWW-t	MT20	3.0	8.0 1.50 2.75
21	BMV1+p	MT20	2.0	4.0 2.25 1.00

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
21	1830	0	1830	0	0
12	1725	0	1725	0	0

HANGER BY OTHERS
MIN. SEAT SIZE: 3-8

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
21	1282	910 / 0	0 / 0	0 / 0	0 / 0	372 / 0	0 / 0
12	1211	847 / 0	0 / 0	0 / 0	0 / 0	364 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 21

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.45 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 6-16. DBS = 14-0-0. CBF = 88 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 8-16. DBS = 20-0-0. CBF = 71 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: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 23	-77.3 -77.3	0.10 (1)	10.00	20-3	-446 / 0	0.08 (1)
2-3	-2334 / 0	-77.3 -77.3	0.17 (1)	4.36	3-19	0 / 2066	0.46 (1)
3-4	-3726 / 0	-77.3 -77.3	0.28 (1)	3.45	19-4	-1191 / 0	0.20 (1)
4-5	-3188 / 0	-77.3 -77.3	0.31 (1)	3.70	4-18	-1044 / 0	0.47 (1)
5-6	-2496 / 0	-77.3 -77.3	0.24 (1)	4.19	18-5	0 / 609	0.14 (1)
6-7	-1905 / 0	-77.3 -77.3	0.22 (1)	4.69	5-17	-925 / 0	0.70 (1)
7-8	-1908 / 0	-77.3 -77.3	0.31 (1)	4.59	17-6	0 / 740	0.17 (1)
8-9	-2295 / 0	-77.3 -77.3	0.32 (1)	4.26	6-16	-1005 / 0	0.47 (1)
9-10	-2295 / 0	-77.3 -77.3	0.32 (1)	4.26	16-7	0 / 1383	0.31 (1)
10-11	-2403 / 0	-77.3 -77.3	0.38 (1)	4.11	16-8	-570 / 0	0.28 (1)
21-2	-1806 / 0	0.0	0.0	6.23	14-8	0 / 171	0.04 (4)
12-11	-1683 / 0	0.0	0.0	6.40	14-10	-139 / 0	0.11 (1)
					13-10	-323 / 0	0.09 (1)
					2-20	0 / 2150	0.48 (1)
21-20	0 / 0	-17.5 -17.5	0.04 (4)	10.00	13-11	0 / 2206	0.50 (1)
20-19	0 / 2067	-17.5 -17.5	0.38 (1)	10.00			
19-18	0 / 3776	-17.5 -17.5	0.68 (1)	10.00			
18-17	0 / 2866	-17.5 -17.5	0.50 (1)	10.00			
17-16	0 / 2233	-17.5 -17.5	0.42 (1)	10.00			
16-15	0 / 2052	-17.5 -17.5	0.39 (1)	10.00			
15-14	0 / 2052	-17.5 -17.5	0.39 (1)	10.00			
14-13	0 / 2165	-17.5 -17.5	0.39 (1)	10.00			
13-12	0 / 0	-17.5 -17.5	0.12 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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
- TPC 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 (1.21")
CALCULATED VERT. DEFL.(LL) = L/999 (0.21")
ALLOWABLE DEFL.(TL)= L/360 (1.21")
CALCULATED VERT. DEFL.(TL) = L/999 (0.38")

CSI: TC=0.38 (10-11:1), BC=0.68 (18-19:1), WB=0.70 (5-17:1), SSI=0.18 (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= 0.89 (4) (INPUT = 0.90)
JSI METAL= 0.65 (13) (INPUT = 1.00)



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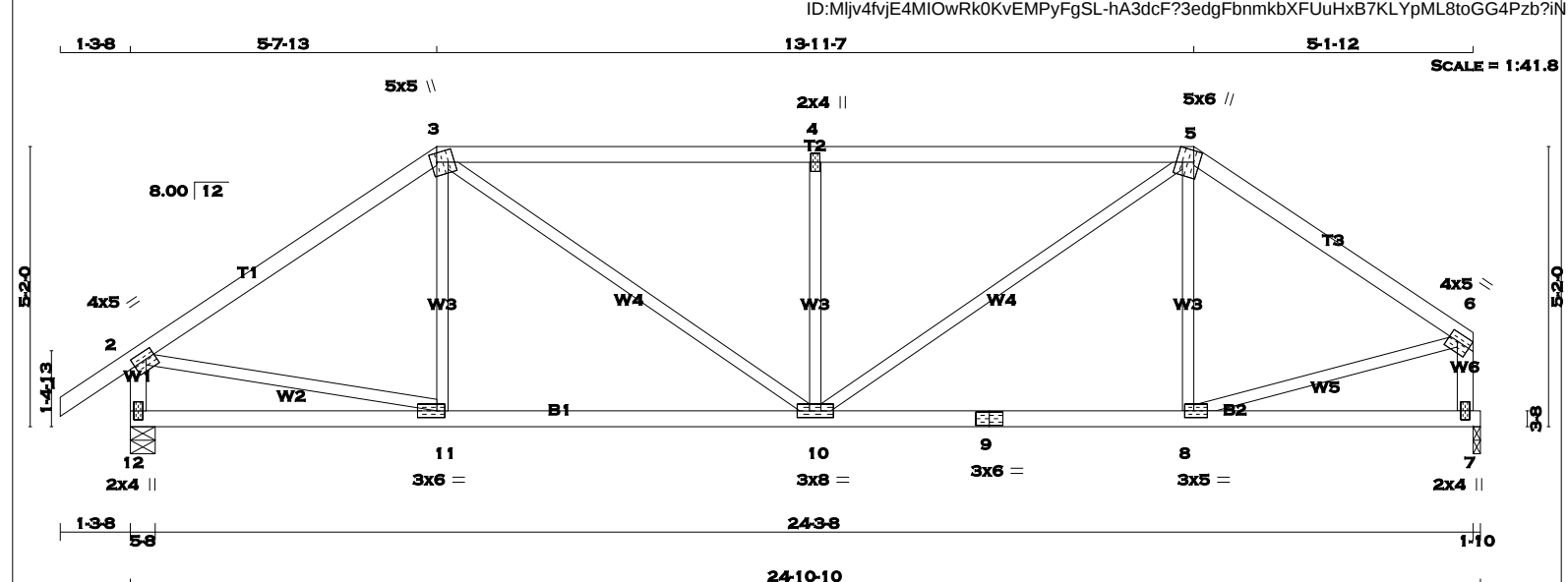
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17-5181

BUILDING DIVISION

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TOTAL WEIGHT = 2 X 97 = 194 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
5 - 6	2x4	DRY	No.2	SPF
12 - 2	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
12 - 9	2x4	DRY	No.2	SPF
9 - 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	TMVW-t	MT20	4.0	5.0	1.75	2.00
3	TTWW+m	MT20	5.0	5.0	2.00	1.25
4	TMW+w	MT20	2.0	4.0		
5	TTWW+m	MT20	5.0	6.0	Edge	3.75
6	TMVW-t	MT20	4.0	5.0	1.75	Edge
7	BMV1+p	MT20	2.0	4.0		
8	BMWW-t	MT20	3.0	5.0	1.50	2.00
9	BS-t	MT20	3.0	6.0		
10	BMWWW-t	MT20	3.0	8.0		
11	BMWW-t	MT20	3.0	6.0	1.50	1.75
12	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	UPLIFT
12	1280	0	1280	0
7	1174	0	1174	0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX. SNOW	MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
12	896	640 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0
7	824	576 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 12, 7

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.14 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
 TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	UNBRACED LENGTH
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	11-3	-77 / 76
2-3	-1287 / 0	-77.3	-77.3	0.51 (1)	5.04	3-10	0 / 641
3-4	-1594 / 0	-77.3	-77.3	0.78 (1)	4.14	10-4	-663 / 0
4-5	-1594 / 0	-77.3	-77.3	0.78 (1)	4.14	10-5	0 / 725
5-6	-1206 / 0	-77.3	-77.3	0.41 (1)	5.31	8-5	-150 / 50
12-2	-1241 / 0	0.0	0.0	0.13 (1)	7.20	2-11	0 / 1088
7-6	-1140 / 0	0.0	0.0	0.12 (1)	7.45	8-6	0 / 1038
12-11	0 / 0	-17.5	-17.5	0.16 (4)	10.00		
11-10	0 / 1068	-17.5	-17.5	0.26 (1)	10.00		
10-9	0 / 999	-17.5	-17.5	0.25 (1)	10.00		
9-8	0 / 999	-17.5	-17.5	0.25 (1)	10.00		
8-7	0 / 0	-17.5	-17.5	0.15 (4)	10.00		

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

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 (0.82")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
 ALLOWABLE DEFL.(TL)= L/360 (0.82")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.78 (3-4:1), BC=0.26 (10-11:1), WB=0.26 (4-10:1), SSI=0.26 (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

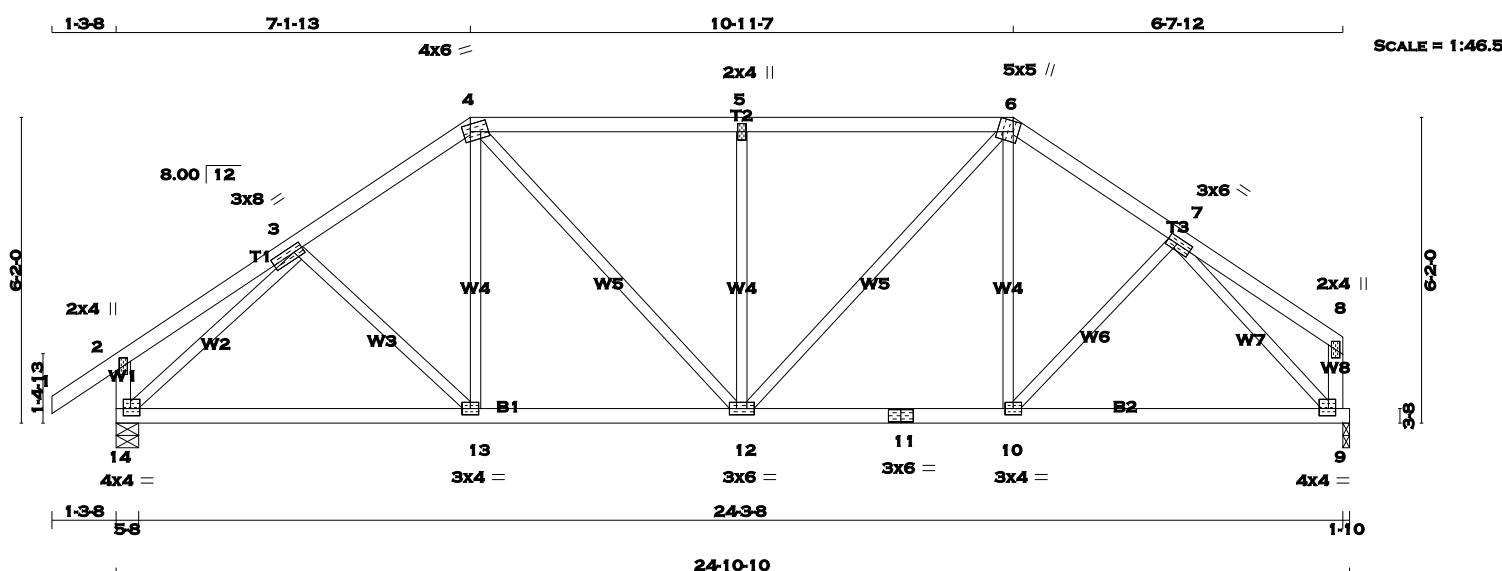
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (11) (INPUT = 0.90)
 JSI METAL= 0.44 (2) (INPUT = 1.00)

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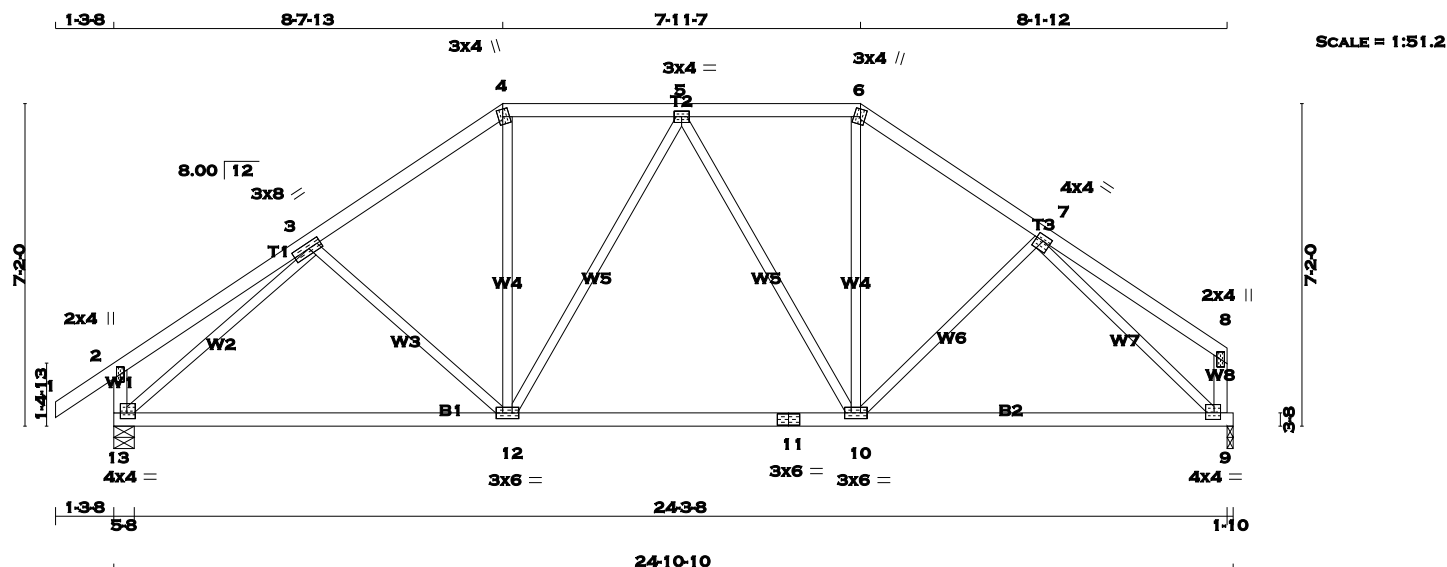
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS										DESIGN CRITERIA									
1 - 4 2x4 DRY No.2 SPF					FACTORED MAXIMUM FACTORED INPUT REQRD										SPECIFIED LOADS:									
4 - 6 2x4 DRY No.2 SPF					GROSS REACTION GROSS REACTION BRG BRG										TOP CH. LL = 23.3 PSF									
6 - 8 2x4 DRY No.2 SPF					JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX										DL = 3.0 PSF									
14 - 2 2x4 DRY No.2 SPF					14 1280 0 1280 0 0 5-8 5-8										BOT CH. LL = 0.0 PSF									
9 - 8 2x4 DRY No.2 SPF					9 1174 0 1174 0 0 1-10 1-10										DL = 7.0 PSF									
14 - 11 2x4 DRY No.2 SPF															TOTAL LOAD = 33.3 PSF									
11 - 9 2x4 DRY No.2 SPF																								
ALL WEBS 2x3 DRY No.2 SPF					UNFACTORED REACTIONS										SPACING = 24.0 IN. C/C									
EXCEPT					1ST LCASE MAX./MIN. COMPONENT REACTIONS																			
DRY: SEASONED LUMBER.					JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL										LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12									
					14 896 640 / 0 0 / 0 0 / 0 0 / 0 256 / 0 0 / 0										THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010									
					9 824 576 / 0 0 / 0 0 / 0 0 / 0 247 / 0 0 / 0										THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011									
					BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 14, 9										(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									
					BRACING										ALLOWABLE DEFL.(LL)= L/360 (0.82")									
					TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.33 FT.										CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")									
					MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.										ALLOWABLE DEFL.(TL)= L/360 (0.82")									
					ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.										CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")									
					LOADING										CSI: TC=0.32 (4-5:1), BC=0.28 (12-13:4), WB=0.57 (3-14:1), SSI=0.20 (4-5:1)									
					TOTAL LOAD CASES: (4)										DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10									
															COMP=1.10 SHEAR=1.10 TENS= 1.10									
															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									



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IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 2 X 106 = 213 lb

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
13- 2	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
13- 11	2x4	DRY	No.2	SPF
11- 9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER							
<u>BEARINGS</u>							
	FACTORED		MAXIMUM FACTORED			INPUT	REQRD
	GROSS REACTION		GROSS REACTION			BRG	BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
JT	1280	0	1280	0	0	5-8	5-8
13	1174	0	1174	0	0	1-10	1-10
9							

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 6.00/12

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 (0.82")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.82")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.18")

CSI: TC=0.23 (2-3:1) , BC=0.37 (10-12:4) ,
WB=0.84 (3-13:1) , SSI=0.15 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

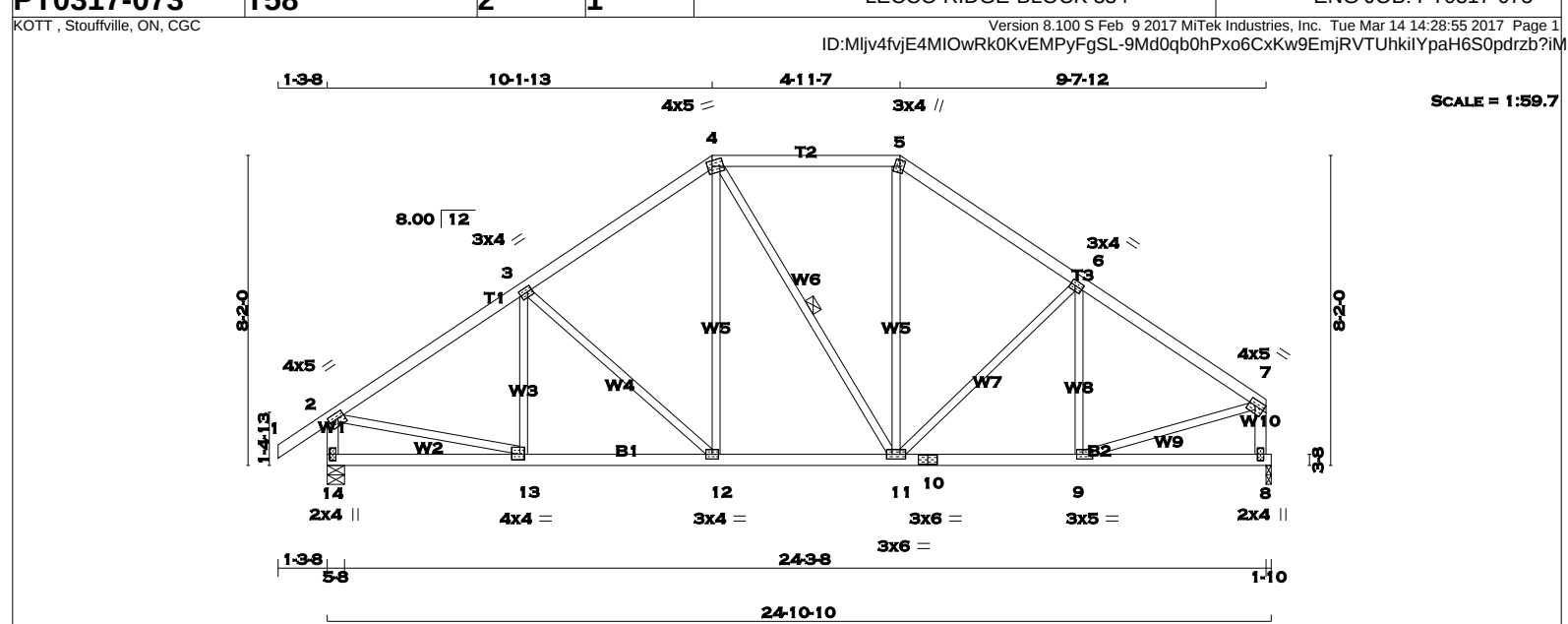
JSI GRIP= 0.89 (3) (INPUT = 0.90)
JSI METAL= 0.51 (7) (INPUT = 1.00)

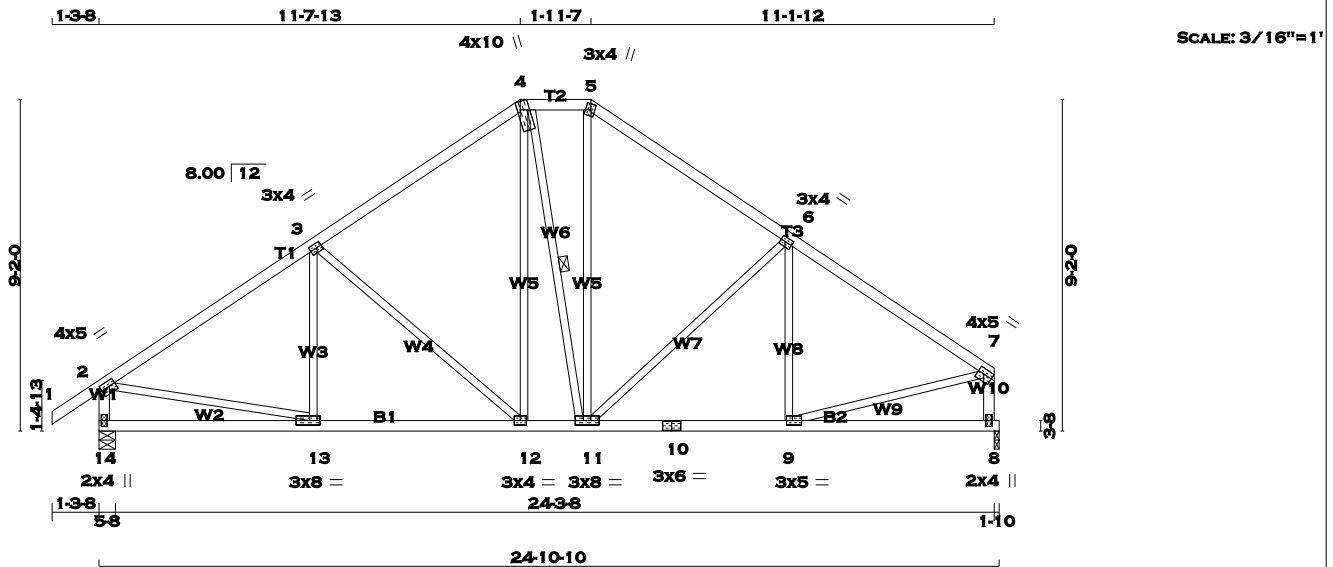


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TOTAL WEIGHT = 2 X 117 = 233 lb
[M][F]

LUMBER		N. L. G. A. RULES		LUMBER	DESCR.
CHORDS	SIZE				
1 - 4	2x4	DRY	No.2	SPF	SPF
4 - 5	2x4	DRY	No.2	SPF	SPF
5 - 7	2x4	DRY	No.2	SPF	SPF
14 - 2	2x4	DRY	No.2	SPF	SPF
8 - 7	2x4	DRY	No.2	SPF	SPF
14 - 10	2x4	DRY	No.2	SPF	SPF
10 - 8	2x4	DRY	No.2	SPF	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	10.0	Edge 1.00
5	TTW+m	MT20	3.0	4.0	2.00 1.25
6	TMVW-t	MT20	3.0	4.0	1.50 1.50
7	TMVW-t	MT20	4.0	5.0	1.75 Edge
8	BMV1+p	MT20	2.0	4.0	
9	BMVW-t	MT20	3.0	5.0	1.50 2.00
10	BS-t	MT20	3.0	6.0	
11	BMVW-t	MT20	3.0	8.0	
12	BMVW-t	MT20	3.0	4.0	
13	BMVW-t	MT20	3.0	8.0	1.50 3.50
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.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX
14	1280	0	1280	0	0	5-8	5-8		
8	1174	0	1174	0	0	1-10	1-10		

UNFACTORED REACTIONS							
	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
14	896	640 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0
8	824	576 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 14, 8

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.19 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 4-11. DBS = 20-0-0 . CBF = 2 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: (4)	
C H O R D S		W E B S	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRAC LENGTH FR-TO
FR-TO			
1-2	0 / 29	-77.3	-77.3 0.10 (1)
2-3	-1324 / 0	-77.3	-77.3 0.38 (1)
3-4	-1012 / 0	-77.3	-77.3 0.35 (1)
4-5	-816 / 0	-77.3	-77.3 0.04 (1)
5-6	-1007 / 0	-77.3	-77.3 0.32 (1)
6-7	-1238 / 0	-77.3	-77.3 0.34 (1)
14-2	-1238 / 0	0.0	0.0 0.13 (1)
8-7	-1133 / 0	0.0	0.0 0.12 (1)
14-13	0 / 0	-17.5	-17.5 0.15 (4)
13-12	0 / 1126	-17.5	-17.5 0.26 (1)
12-11	0 / 820	-17.5	-17.5 0.18 (1)
11-10	0 / 1053	-17.5	-17.5 0.24 (1)
10-9	0 / 1053	-17.5	-17.5 0.24 (1)
9-8	0 / 0	-17.5	-17.5 0.14 (4)

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 6.00/12

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 (0.82")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.82")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09")

CSI: TC=0.38 (2-3:1) , BC=0.26 (12-13:1) , WB=0.49 (3-12:1) , SSI=0.18 (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.

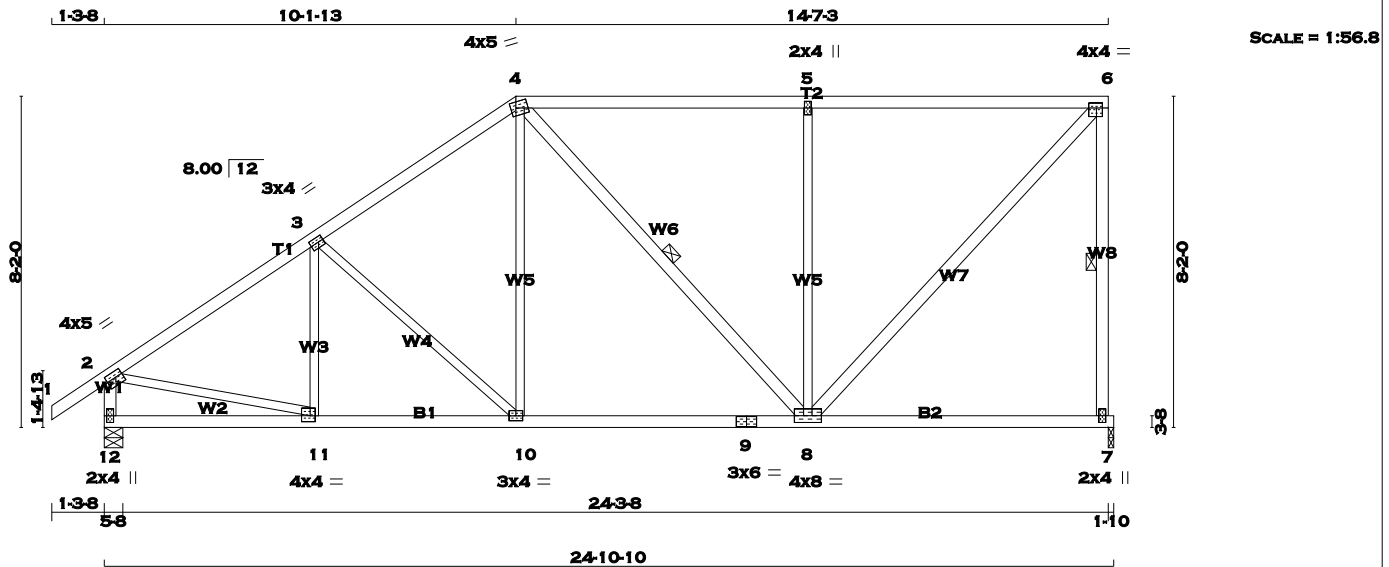
JSI GRIP= 0.90 (9) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 119 lb
[M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
12 - 2	2x4	DRY	No.2	SPF
12 - 9	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
4 - 8	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	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	TMVW-t	MT20	4.0	4.0	1.50 1.75
7	BMV1+p	MT20	2.0	4.0	
8	BMVWV-t	MT20	4.0	8.0	
9	BS-t	MT20	3.0	6.0	
10	BMVW-t	MT20	3.0	4.0	
11	BMVW-t	MT20	4.0	4.0	1.75 1.50
12	BMV1+p	MT20	2.0	4.0	
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.					



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG		
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
7	1174	0	1174	0	0	1-10	1-10		
12	1280	0	1280	0	0	5-8	5-8		
UNFACTORED REACTIONS									
JT	1ST LCASE COMBINED		MAX./MIN. SNOW		LIVE		PERM. LIVE WIND DEAD SOIL		
7	824	576 / 0	0 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0	0 / 0
12	896	640 / 0	0 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7, 12

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.16 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 6-7. DBS = 12-0-0 . CBF = 84 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-8. DBS = 20-0-0 . CBF = 9 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: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 CSI (LC)
FR-TO		FROM TO			FR-TO		
1- 2	0 / 29	-77.3 -77.3	0.10 (1)	10.00	11- 3	-141 / 40	0.05 (1)
2- 3	-1321 / 0	-77.3 -77.3	0.39 (1)	5.16	3-10	-299 / 0	0.26 (1)
3- 4	-1106 / 0	-77.3 -77.3	0.37 (1)	5.54	10- 4	0 / 302	0.07 (1)
4- 5	-850 / 0	-77.3 -77.3	0.77 (1)	5.18	4- 8	-75 / 0	0.04 (1)
5- 6	-850 / 0	-77.3 -77.3	0.77 (1)	5.16	8- 5	-702 / 0	0.91 (1)
7- 6	-1122 / 0	0.0 0.0	0.34 (1)	5.99	8- 6	0 / 1241	0.20 (1)
12- 2	-1241 / 0	0.0 0.0	0.13 (1)	7.21	2-11	0 / 1144	0.26 (1)
12-11	0 / 0	-17.5 -17.5	0.10 (4)	10.00			
11-10	0 / 1120	-17.5 -17.5	0.25 (1)	10.00			
10- 9	0 / 901	-17.5 -17.5	0.31 (4)	10.00			
9- 8	0 / 901	-17.5 -17.5	0.31 (4)	10.00			
8- 7	0 / 0	-17.5 -17.5	0.24 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

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 (0.82")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.82")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.77 (5-6:1) , BC=0.31 (8-10:4) , WB=0.91 (5-8:1) , SSI=0.28 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

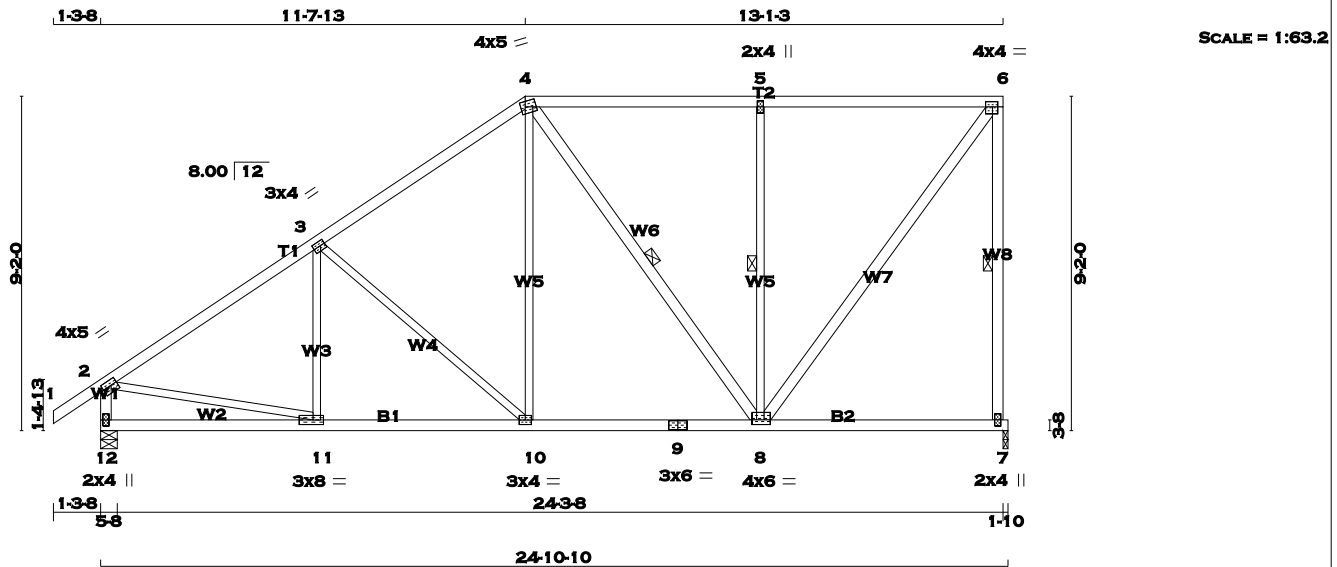
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (2) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)

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TOTAL WEIGHT = 125 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	No.2	SPF
4 - 6	2x4	DRY	No.2
7 - 6	2x4	DRY	No.2
12 - 2	2x4	DRY	No.2
12 - 9	2x4	DRY	No.2
9 - 7	2x4	DRY	No.2

ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
4 - 8	2x4	DRY	No.2	SPF
8 - 6	2x4	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+hw	MT20	2.0	4.0		
6	TMVW-t	MT20	4.0	4.0	1.75	1.75
7	BMV1+p	MT20	2.0	4.0		
8	BMVWWW-t	MT20	4.0	6.0	1.50	1.50
9	BS-t	MT20	3.0	6.0		
10	BMVWW-t	MT20	3.0	4.0		
11	BMVW-t	MT20	3.0	8.0	1.50	3.50
12	BMV1+p	MT20	2.0	4.0		

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

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

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
JT	1174	0	1174	0	0	1-10	1-10
7	1280	0	1280	0	0	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7	824	576 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0
12	896	640 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7, 12

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.96 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY
APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-7. DBS = 12-0-0 . CBF = 85 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-8, 5-8. DBS = 20-0-0 . CBF = 79 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: (4)

C H O R D S					W E B S				
MAX. FACTORED		FACTORED			MAX. FACTORED		MAX. FACTORED		
MEMB.	FORCE	VERT. LOAD	LC1	MAX	MAX.	MEMB.	FORCE	MAX	
	(LBS)	(PLF)	CSI (LC)		UNBRAC		(LBS)	CSI (LC)	
FR-TO		FROM	TO		LENGTH	FR-TO			
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	11-3	-92 / 70	0.04 (1)	
2-3	-1322 / 0	-77.3	-77.3	0.53 (1)	4.96	3-10	-405 / 0	0.49 (1)	
3-4	-1015 / 0	-77.3	-77.3	0.50 (1)	5.51	10.00	0 / 365	0.08 (1)	
4-5	-698 / 0	-77.3	-77.3	0.59 (1)	6.05	4-8	-212 / 0	0.14 (1)	
5-6	-698 / 0	-77.3	-77.3	0.60 (1)	6.05	8-5	-629 / 0	0.35 (1)	
7-6	-1127 / 0	0.0	0.0	0.44 (1)	5.98	8-6	0 / 1163	0.19 (1)	
12-2	-1237 / 0	0.0	0.0	0.13 (1)	7.22	2-11	0 / 1144	0.26 (1)	
12-11	0 / 0	-17.5	-17.5	0.14 (4)	10.00				
11-10	0 / 1125	-17.5	-17.5	0.25 (1)	10.00				
10-9	0 / 823	-17.5	-17.5	0.25 (4)	10.00				
9-8	0 / 823	-17.5	-17.5	0.25 (4)	10.00				
8-7	0 / 0	-17.5	-17.5	0.19 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE
OF 6.00/12

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 (0.82")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.82")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.08")

CSI: TC=0.60 (5-6:1) , BC=0.25 (10-11:1) ,
WB=0.49 (3-10:1) , SSI=0.25 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (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.

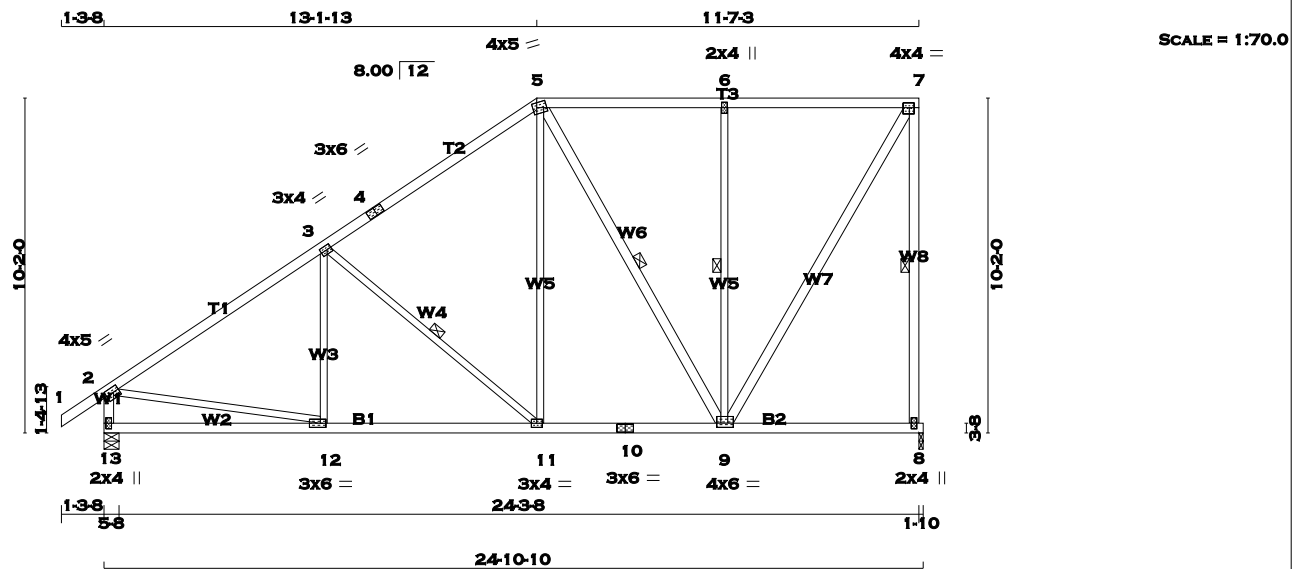
JSI GRIP= 0.88 (8) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)



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IN THE DESIGN OF THIS COMPONENT.**





LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

1 - 4

2x4

DRY

No.2

SPF

4 - 5

2x4

DRY

No.2

SPF

5 - 7

2x4

DRY

No.2

SPF

8 - 7

2x4

DRY

No.2

SPF

13 - 2

2x4

DRY

No.2

SPF

13 - 10

2x4

DRY

No.2

SPF

10 - 8

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

EXCEPT

5 - 9

2x4

DRY

No.2

SPF

9 - 7

2x4

DRY

No.2

SPF

DRY: SEASONED LUMBER.

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

BEARINGS

FACTORED

MAXIMUM FACTORED

INPUT

REQRD

GROSS REACTION

GROSS REACTION

BRG

BRG

DOWN

HORIZ

UPLIFT

IN-SX

IN-SX

8

1174

0

1174

0

0

1-10

1-10

13

1280

0

1280

0

0

5-8

5-8

UNFACTORED REACTIONS

1ST LCASE

MAX/MIN. COMPONENT REACTIONS

GT

COMBINED

SNOW

LIVE

PERM.LIVE

WIND

DEAD

SOIL

8

824

576 / 0

0 / 0

0 / 0

0 / 0

247 / 0

0 / 0

13

896

640 / 0

0 / 0

0 / 0

0 / 0

256 / 0

0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.04 FT.

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

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-8. DBS = 12-0-0 . CBF = 85 LBS.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 3-11, 5-9, 6-9. DBS = 20-0-0 . CBF = 70 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: (4)

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 6.00/12

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 (0.82")

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")

ALLOWABLE DEFL.(TL)= L/360 (0.82")

CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09")

CSI: TC=0.57 (7-8:1) , BC=0.28 (11-12:1) , WB=0.39 (6-9:1) , SSI=0.22 (6-7:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (12) (INPUT = 0.90)

JSI METAL= 0.45 (2) (INPUT = 1.00)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.75	2.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.50
4	TS-t	MT20	3.0	6.0		
5	TTWW-m	MT20	4.0	5.0	1.75	1.50
6	TMW+w	MT20	2.0	4.0		
7	TMVW-t	MT20	4.0	4.0	1.75	1.75
8	BMV1+p	MT20	2.0	4.0		
9	BMWWW-t	MT20	4.0	6.0	1.50	1.50
10	BS-t	MT20	3.0	6.0		
11	BMWWW-t	MT20	3.0	4.0		
12	BMWW-t	MT20	3.0	6.0	1.50	2.00
13	BMV1+p	MT20	2.0	4.0		

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

DRY: SEASONED LUMBER.

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.75	2.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.50
4	TS-t	MT20	3.0	6.0		
5	TTWW-m	MT20	4.0	5.0	1.75	1.50
6	TMW+w	MT20	2.0	4.0		
7	TMVW-t	MT20	4.0	4.0	1.75	1.75
8	BMV1+p	MT20	2.0	4.0		
9	BMWWW-t	MT20	4.0	6.0	1.50	1.50
10	BS-t	MT20	3.0	6.0		
11	BMWWW-t	MT20	3.0	4.0		
12	BMWW-t	MT20	3.0	6.0	1.50	2.00
13	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)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 29	-77.3 -77.3	0.10 (1)	10.00	12-3	-50 / 96	0.03 (4)
2-3	-1314 / 0	-77.3 -77.3	0.50 (1)	5.04	3-11	-507 / 0	0.26 (1)
3-4	-918 / 0	-77.3 -77.3	0.46 (1)	5.81	11-5	0 / 426	0.10 (1)
4-5	-918 / 0	-77.3 -77.3	0.46 (1)	5.81	5-9	-333 / 0	0.24 (1)
5-6	-572 / 0	-77.3 -77.3	0.34 (1)	6.25	9-6	-556 / 0	0.39 (1)
6-7	-572 / 0	-77.3 -77.3	0.34 (1)	6.25	9-7	0 / 1115	0.18 (1)
8-7	-1131 / 0	0.0 0.0	0.57 (1)	5.97	2-12	0 / 1136	0.26 (1)
13-2	-1232 / 0	0.0 0.0	0.13 (1)	7.23			
13-12	0 / 0	-17.5 -17.5	0.19 (4)	10.00			
12-11	0 / 1122	-17.5 -17.5	0.28 (1)	10.00			
11-10	0 / 739	-17.5 -17.5	0.20 (4)	10.00			
10-9	0 / 739	-17.5 -17.5	0.20 (4)	10.00			
9-8	0 / 0	-17.5 -17.5	0.14 (4)	10.00			

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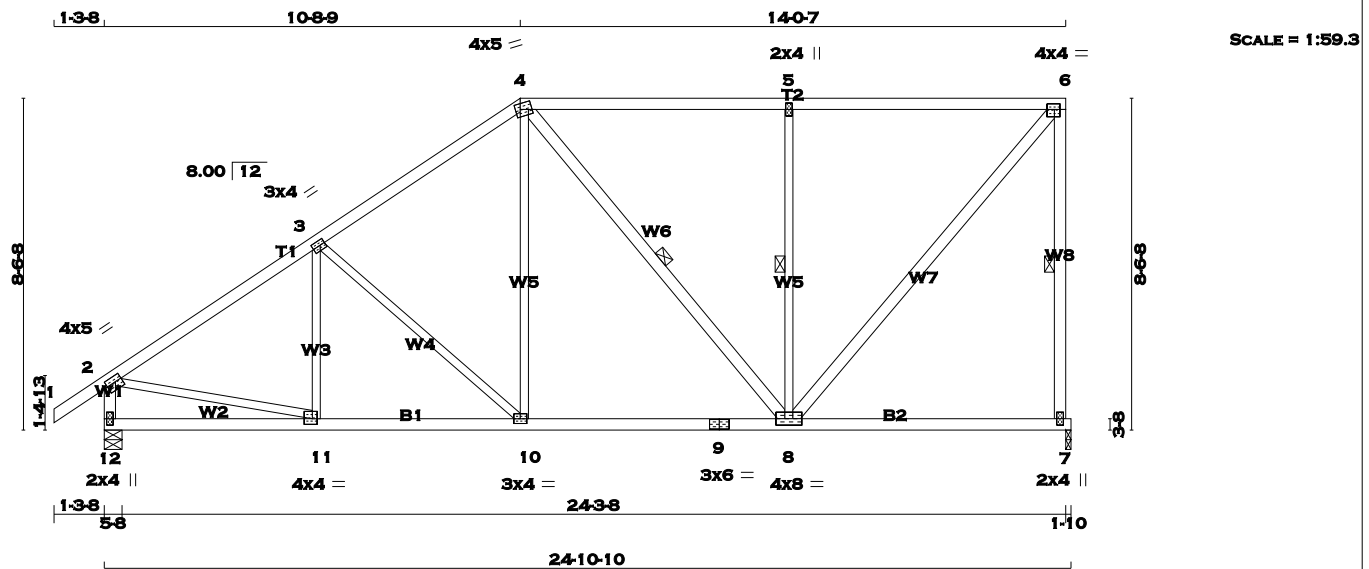
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TOTAL WEIGHT = 121 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
12 - 2	2x4	DRY	No.2	SPF
12 - 9	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
4 - 8	2x4	DRY	No.2	SPF
8 - 6	2x4	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	TMVW-w	MT20	2.0	4.0	
6	TMVW-t	MT20	4.0	4.0	1.75 1.75
7	BMV1+p	MT20	2.0	4.0	
8	BMVWV-t	MT20	4.0	8.0	
9	BS-t	MT20	3.0	6.0	
10	BMVW-t	MT20	3.0	4.0	
11	BMVW-t	MT20	4.0	4.0	1.75 1.50
12	BMV1+p	MT20	2.0	4.0	
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.					



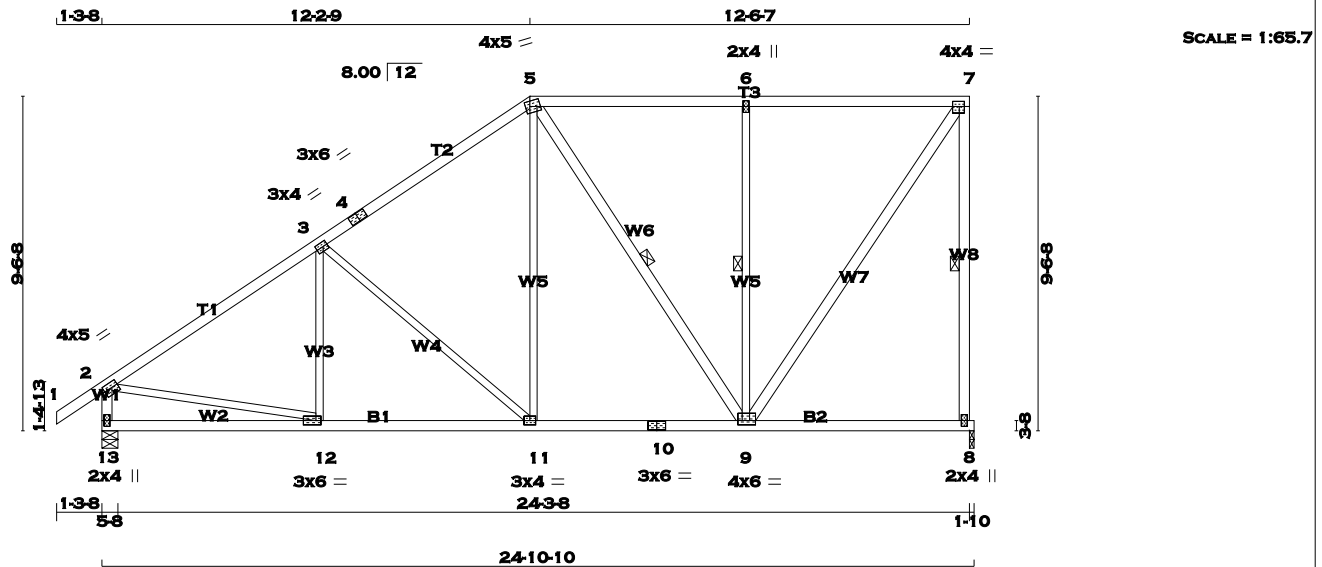
DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
7		1174	0	1174	0	0	1-10	1-10	
12		1280	0	1280	0	0	5-8	5-8	
UNFACTORED REACTIONS									
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
7		824	576 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0	
12		896	640 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0	
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7, 12									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.09 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 6-7. DBS = 12-0-0 . CBF = 84 LBS. 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-8, 5-8. DBS = 20-0-0 . CBF = 84 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: (4)									
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)	MAX UNBRAC LENGTH	
FR-TO		FROM TO			FR-TO				
1-2	0 / 29	-77.3 -77.3	0.10 (1)	10.00	11-3	-121 / 51	0.05 (1)		
2-3	-1323 / 0	-77.3 -77.3	0.44 (1)	5.09	3-10	-340 / 0	0.33 (1)		
3-4	-1073 / 0	-77.3 -77.3	0.41 (1)	5.54	10-4	0 / 326	0.07 (1)		
4-5	-789 / 0	-77.3 -77.3	0.70 (1)	5.52	4-8	-129 / 0	0.08 (1)		
5-6	-789 / 0	-77.3 -77.3	0.70 (1)	5.52	8-5	-675 / 0	0.31 (1)		
7-6	-1124 / 0	0.0 0.0	0.37 (1)	5.99	8-6	0 / 1208	0.19 (1)		
12-2	-1239 / 0	0.0 0.0	0.13 (1)	7.21	2-11	0 / 1145	0.26 (1)		
12-11	0 / 0	-17.5 -17.5	0.11 (4)	10.00					
11-10	0 / 1123	-17.5 -17.5	0.24 (1)	10.00					
10-9	0 / 872	-17.5 -17.5	0.28 (4)	10.00					
9-8	0 / 872	-17.5 -17.5	0.28 (4)	10.00					
8-7	0 / 0	-17.5 -17.5	0.22 (4)	10.00					

DESIGN CRITERIA				
SPECIFIED LOADS:				
TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD = 33.3 PSF				
SPACING = 24.0 IN. C/C				
LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12				
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 (0.82") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04") ALLOWABLE DEFL.(TL)= L/360 (0.82") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09")				
CSI: TC=0.70 (5-6:1) , BC=0.28 (8-10:4) , WB=0.33 (3-10:1) , SSI=0.27 (5-6:1)				
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10				
COMPANION LIVE LOAD FACTOR = 0.50				
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .				
NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656				
PLATE PLACEMENT TOL. = 0.250 inches				
PLATE ROTATION TOL. = 5.0 Deg.				
JSI GRIP= 0.90 (6) (INPUT = 0.90) JSI METAL= 0.45 (2) (INPUT = 1.00)				

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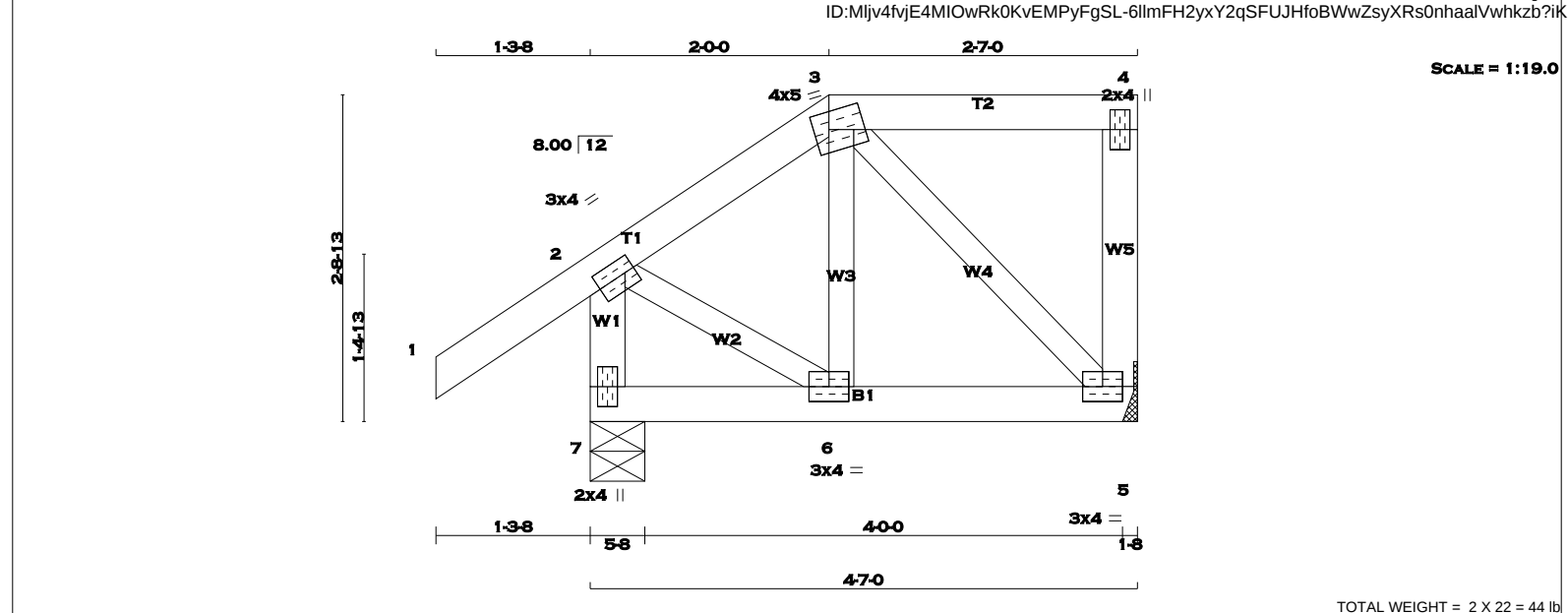
LUMBER N. L. G. A. RULES CHORDS SIZE 1 - 4 2x4 DRY No.2 4 - 5 2x4 DRY No.2 5 - 7 2x4 DRY No.2 8 - 7 2x4 DRY No.2 13 - 2 2x4 DRY No.2 13 - 10 2x4 DRY No.2 10 - 8 2x4 DRY No.2 ALL WEBS 2x3 DRY No.2 EXCEPT 5 - 9 2x4 DRY No.2 9 - 7 2x4 DRY No.2 DRY: SEASONED LUMBER.				DESCR. SPF SPF SPF SPF SPF SPF SPF SPF SPF SPF				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION JT VERT HORZ 8 1174 0 13 1280 0 MAXIMUM FACTORED GROSS REACTION DOWN HORZ UPLIFT 8 1174 0 0 13 1280 0 0 INPUT BRG IN-SX 1-10 1-10 5-8 5-8 REQRD BRG IN-SX 1-10 1-10 5-8 5-8 UNFACTORED REACTIONS 1ST LCASE MAX/MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 8 824 576 / 0 0 / 0 0 / 0 247 / 0 0 / 0 13 896 640 / 0 0 / 0 0 / 0 256 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 13 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.87 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 7-8. DBS = 12-0-0 . CBF = 85 LBS. 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-9, 6-9. DBS = 20-0-0 . CBF = 75 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: (4) C H O R D S MAX. FACTORED FORCE (LBS) MEMB. VERT. LOAD LC1 MAX. UNBRAC LENGTH FR-TO 0 / 29 1-2 -77.3 -77.3 0.10 (1) 10.00 2-3 -1320 / 0 -77.3 -77.3 0.60 (1) 4.87 3-4 -980 / 0 -77.3 -77.3 0.55 (1) 5.49 4-5 -980 / 0 -77.3 -77.3 0.55 (1) 5.49 5-6 -648 / 0 -77.3 -77.3 0.54 (1) 6.25 6-7 -648 / 0 -77.3 -77.3 0.54 (1) 6.25 8-7 -1129 / 0 0.0 0.0 0.49 (1) 5.98 13-2 -1235 / 0 0.0 0.0 0.13 (1) 7.22 W E B S MAX. FACTORED FORCE (LBS) MEMB. MAX. UNBRAC LENGTH FR-TO -76 / 80 0.04 (1) 12-3 -444 / 0 0.60 (1) 3-11 0 / 389 0.09 (1) 5-9 -259 / 0 0.17 (1) 9-6 -602 / 0 0.36 (1) 9-7 0 / 1142 0.18 (1) 2-12 0 / 1142 0.26 (1) 13-12 0 / 0 -17.5 -17.5 0.16 (4) 10.00 12-11 0 / 1125 -17.5 -17.5 0.26 (1) 10.00 11-10 0 / 792 -17.5 -17.5 0.23 (4) 10.00 10-9 0 / 792 -17.5 -17.5 0.23 (4) 10.00 9-8 0 / 0 -17.5 -17.5 0.17 (4) 10.00				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 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 (0.82") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04") ALLOWABLE DEFL.(TL)= L/360 (0.82") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.08") CSI: TC=0.60 (2-3:1) , BC=0.26 (11-12:1) , WB=0.60 (3-11:1) , SSI=0.24 (6-7:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.90 (12) (INPUT = 0.90) JSI METAL= 0.45 (2) (INPUT = 1.00)			
---	--	--	--	---	--	--	--	--	--	--	--	--	--	--	--



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LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

1 - 3

2x4

DRY

No.2

SPF

3 - 4

2x4

DRY

No.2

SPF

5 - 4

2x4

DRY

No.2

SPF

7 - 2

2x4

DRY

No.2

SPF

7 - 5

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

EXCEPT

DRY: SEASONED LUMBER.

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

BEARINGS

FACTORED

GROSS REACTION

MAXIMUM FACTORED

GROSS REACTION

INPUT

REQRD

JT

VERT

HORZ

DOWN

HORZ

UPLIFT

IN-SX

IN-SX

5

217

0

217

0

0

HANGER BY OTHERS

MIN. SEAT SIZE: 1-8

7

324

0

324

0

0

5-8

5-8

UNFACTORED REACTIONS

1ST LCASE

MAX./MIN. COMPONENT REACTIONS

JT

COMBINED

SNOW

LIVE

PERM.LIVE

WIND

DEAD

SOIL

5

153

107 / 0

0 / 0

0 / 0

0 / 0

46 / 0

0 / 0

7

225

171 / 0

0 / 0

0 / 0

0 / 0

54 / 0

0 / 0

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 6.00/12

PLATES (table is in inches)

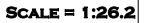
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.00
3	TTWW-m	MT20	4.0	5.0	1.75	1.50
4	TMV+p	MT20	2.0	4.0		
5	BMVW1-t	MT20	3.0	4.0		
6	BMVW1-t	MT20	3.0	4.0		
7	BMV1+p	MT20	2.0	4.0		

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

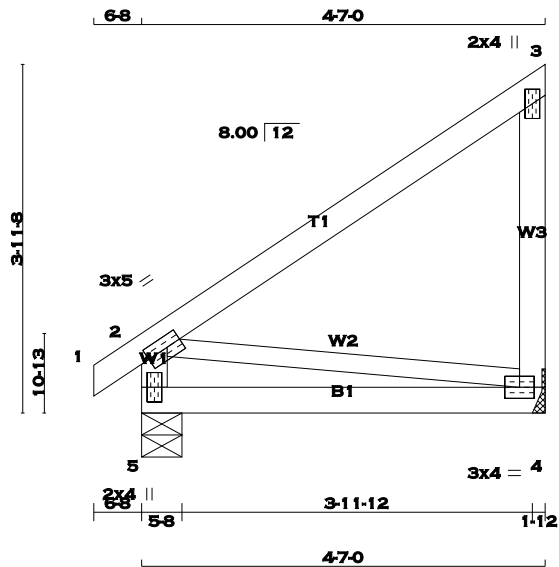
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED (LC)
FR-TO		FROM	TO		FR-TO		
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	6-3	-8 / 37	0.01 (4)
2-3	-127 / 0	-77.3	-77.3 0.05 (1)	6.25	3-5	-144 / 0	0.03 (1)
3-4	0 / 0	-77.3	-77.3 0.09 (1)	10.00	2-6	0 / 118	0.03 (1)
5-4	-100 / 0	0.0	0.0 0.01 (1)	7.81			
7-2	-308 / 0	0.0	0.0 0.03 (1)	7.81			
7-6	0 / 0	-17.5	-17.5 0.02 (4)	10.00			
6-5	0 / 105	-17.5	-17.5 0.03 (4)	10.00			

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TOTAL WEIGHT = $2 \times 20 = 40 \text{ lb}$



SCALE = 1:26.2

TOTAL WEIGHT = 10 X 20 = 200 lb
[M][F]

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	5.0	1.50	2.00
3	TMV+p	MT20	2.0	4.0		
4	BMVW1-t	MT20	3.0	4.0		
5	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MIITEK 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	HORZ	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
5	266	0	266	0	0	5-8	5-8		
4	217	0	217	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 1-12			

UNFACTORED REACTIONS

JT	1ST CASE	MAX./MIN.	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	185	136 / 0	0 / 0	0 / 0	0 / 0	0 / 0	50 / 0	0 / 0
4	153	107 / 0	0 / 0	0 / 0	0 / 0	0 / 0	46 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		MAX. FACTORED		MEMB.		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 (LC)	MAX. (LC)	UNBRACED LENGTH	MEMB.	FORCE (LBS)	MAX. (LC)	UNBRACED LENGTH
FR-TO		FROM	TO			FR-TO			
5-2	-225 / 0	0.0	0.0	0.02 (1)	7.81	2-4	0 / 0	0.00 (1)	
1-2	0 / 13	-77.3	-77.3	0.02 (1)	10.00				
2-3	0 / 0	-77.3	-77.3	0.28 (1)	10.00				
4-3	-177 / 0	0.0	0.0	0.04 (1)	7.81				
5-4	0 / 0	-17.5	-17.5	0.11 (4)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

CSI: TC=0.28 (2-3:1) , BC=0.11 (4-5:4) , WB=0.00 (2-4:1) , SSI=0.12 (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.

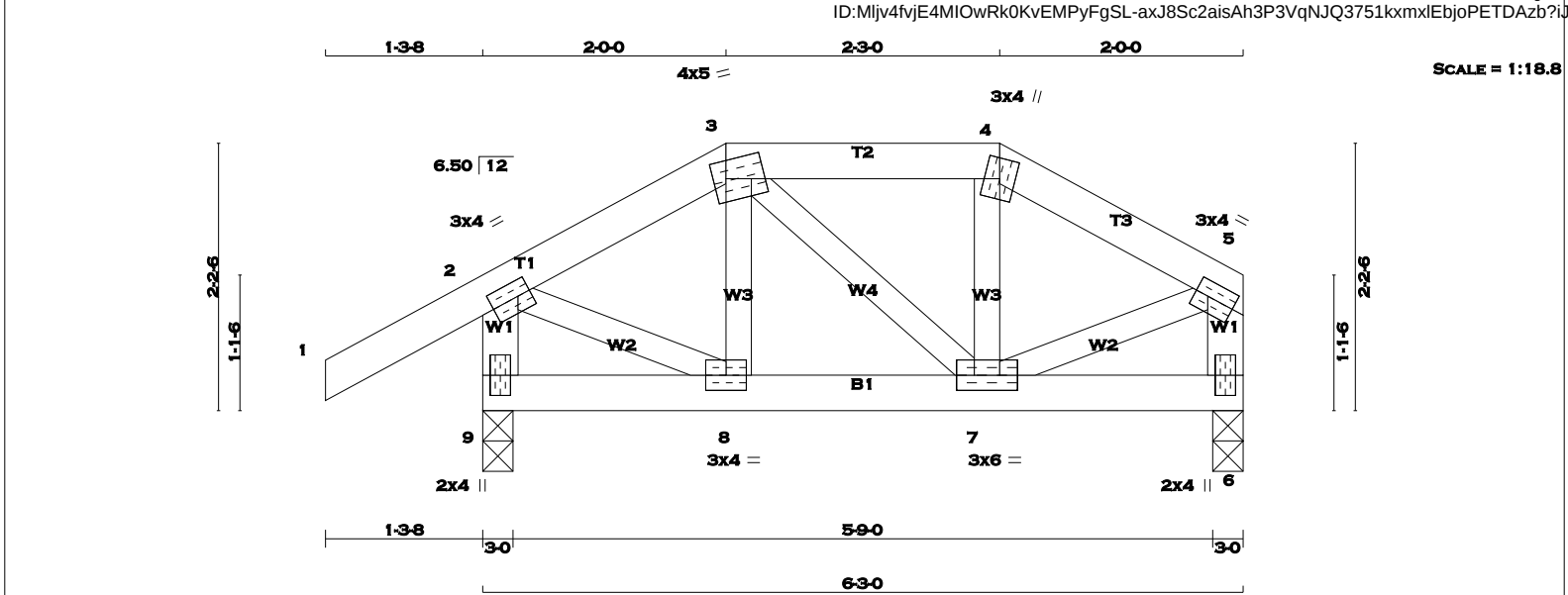
JSI GRIP= 0.20 (2) (INPUT = 0.90)
JSI METAL= 0.04 (2) (INPUT = 1.00)



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LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

1 - 3

2x4

DRY

No.2

SPF

3 - 4

2x4

DRY

No.2

SPF

4 - 5

2x4

DRY

No.2

SPF

9 - 2

2x4

DRY

No.2

SPF

6 - 5

2x4

DRY

No.2

SPF

9 - 6

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

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

9

402

0

402

0

0

3-0

3-0

6

296

0

296

0

0

3-0

3-0

UNFACTORED REACTIONS

1ST LCASE

MAX./MIN.

COMPONENT REACTIONS

JT

COMBINED

SNOW

LIVE

PERM.LIVE

WIND

DEAD

SOIL

9

280

209 / 0

0 / 0

0 / 0

0 / 0

71 / 0

0 / 0

6

208

146 / 0

0 / 0

0 / 0

0 / 0

63 / 0

0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 9, 6

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 6.00/12

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 (0.21")

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

ALLOWABLE DEFL.(TL)= L/360 (0.21")

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

CSI: TC=0.10 (1-2:1), BC=0.04 (7-8:1), WB=0.05 (2-8:1), 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= 0.59 (2) (INPUT = 0.90)

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

PLATES (table is in inches)

JT

TYPE

PLATES

W

LEN

Y

X

2

TMVW-t

MT20

3.0

4.0

1.50

1.25

3

TTWW-m

MT20

4.0

5.0

1.75

1.25

4

TTW+m

MT20

3.0

4.0

5

TMVW-t

MT20

3.0

4.0

1.50

1.25

6

BMV1+p

MT20

2.0

4.0

7

BMVWW-t

MT20

3.0

6.0

8

BMVWW-t

MT20

3.0

4.0

9

BMV1+p

MT20

2.0

4.0

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

CHORDS

MAX. FACTORED

FACTORED

VERT. LOAD LC1

MAX

MAX.

MEMB.

MAX.

FACTORED

MEMB.

FORCE

VERT. LOAD LC1

MAX

MAX.

MEMB.

FORCE

MAX

FR-TO

FROM

TO

LENGTH

FR-TO

1-2

0 / 25

-77.3

-77.3

0.10 (1)

10.00

8-3

-45 / 18

0.01 (1)

2-3

-248 / 0

-77.3

-77.3

0.04 (1)

6.25

3-7

0 / 0

0.00 (1)

3-4

-215 / 0

-77.3

-77.3

0.05 (1)

6.25

7-4

-45 / 19

0.01 (1)

4-5

-248 / 0

-77.3

-77.3

0.04 (1)

6.25

2-8

0 / 233

0.05 (1)

9-2

-385 / 0

0.0

0.0

0.04 (1)

7.81

7-5

0 / 233

0.05 (1)

6-5

-279 / 0

0.0

0.0

0.03 (1)

7.81

9-8

0 / 0

-17.5

-17.5

0.02 (4)

10.00

8-7

0 / 215

-17.5

-17.5

0.04 (1)

10.00

7-6

0 / 0

-17.5

-17.5

0.02 (4)

10.00

LICENSED PROFESSIONAL ENGINEER

PAUL TREVISAN

100136551

March 14th, 2017

PROVINCE OF ONTARIO

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TOWN OF MILTON

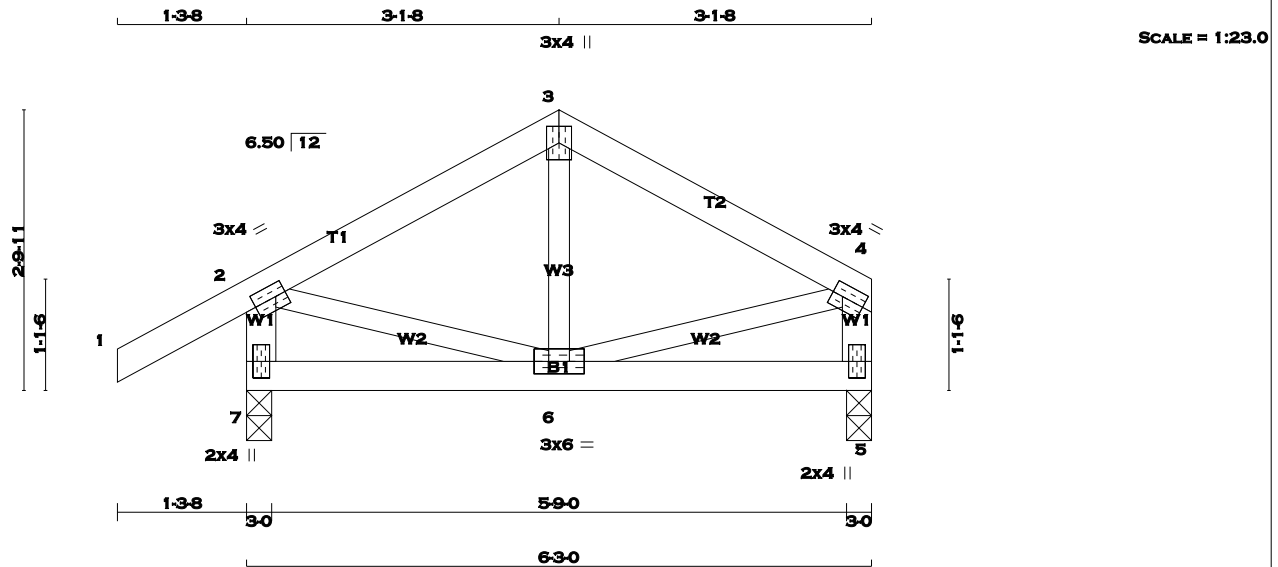
MAR 29, 2017

17-5181

BUILDING DIVISION

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KOTT



TOTAL WEIGHT = 4 X 25 = 100 lb [M][F]

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.25
3	TTW+p	MT20	3.0	4.0		
4	TMVW-t	MT20	3.0	4.0	1.50	1.25
5	BMV1+p	MT20	2.0	4.0		
6	BMVWW-t	MT20	3.0	6.0		
7	BMV1+p	MT20	2.0	4.0		

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

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
7	402	0	402	0	0	3-0	3-0
5	296	0	296	0	0	3-0	3-0

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
7	280	209 / 0	0 / 0	0 / 0	0 / 0	71 / 0	0 / 0
5	208	146 / 0	0 / 0	0 / 0	0 / 0	63 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 25	-77.3 -77.3	0.10 (1)	10.00	6-3	-34 / 43	0.01 (4)
2-3	-218 / 0	-77.3 -77.3	0.10 (1)	6.25	2-6	0 / 198	0.04 (1)
3-4	-218 / 0	-77.3 -77.3	0.10 (1)	6.25	6-4	0 / 198	0.04 (1)
7-2	-379 / 0	0.0 0.0	0.04 (1)	7.81			
5-4	-274 / 0	0.0 0.0	0.03 (1)	7.81			
7-6	0 / 0	-17.5 -17.5	0.05 (4)	10.00			
6-5	0 / 0	-17.5 -17.5	0.05 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.21")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.21")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.00")

CSI: TC=0.10 (1-2:1), BC=0.05 (6-7:4), WB=0.04 (4-6:1), SSI=0.08 (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.

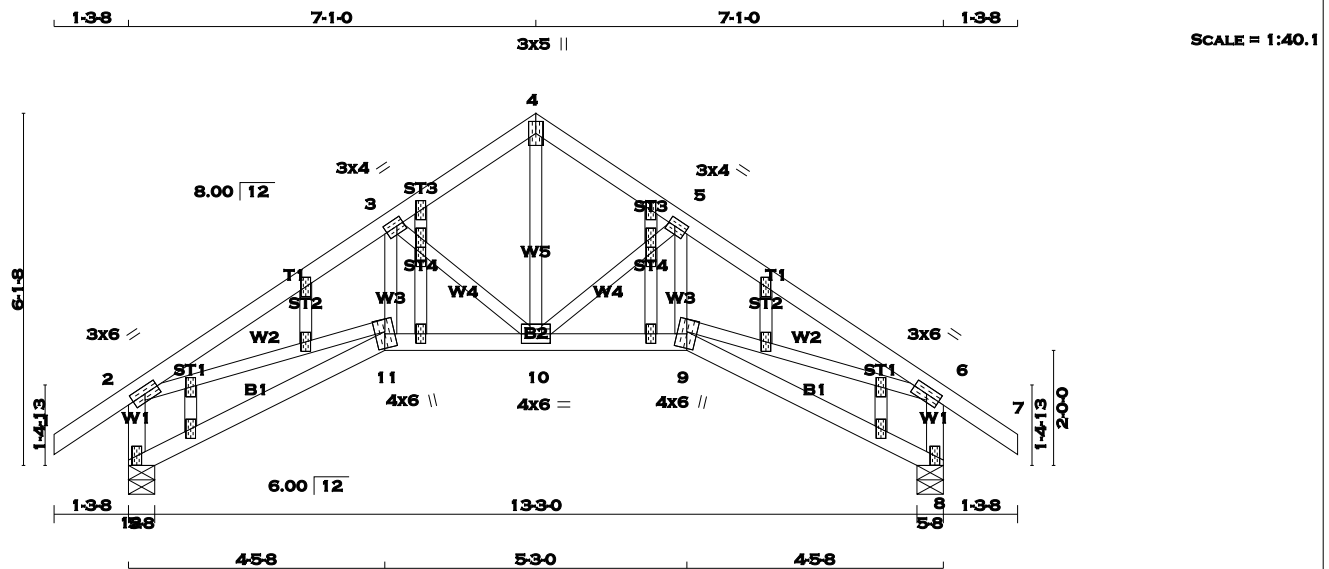
JSI GRIP= 0.49 (2) (INPUT = 0.90)
JSI METAL= 0.12 (4) (INPUT = 1.00)



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TOTAL WEIGHT = 68 lb

LUMBER				DESCR.	
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
1 - 4	2x4	DRY	No.2	SPF	
4 - 7	2x4	DRY	No.2	SPF	
12 - 2	2x4	DRY	No.2	SPF	
8 - 6	2x4	DRY	No.2	SPF	
12 - 11	2x4	DRY	No.2	SPF	
11 - 9	2x4	DRY	No.2	SPF	
9 - 8	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	
ALL GABLE WEBS	2x3	DRY	No.2	SPF	
DRY: SEASONED LUMBER.					
GABLE STUDS SPACED AT 2-0-0 OC.					

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	3.0	6.0	
3	TMWW-t	MT20	3.0	4.0	1.50 1.50
4	TTW+p	MT20	3.0	5.0	
5	TMWW-t	MT20	3.0	4.0	1.50 1.50
6	TMVW-t	MT20	3.0	6.0	
8	BMV1+p	MT20	2.0	4.0	
9	BBWW+m	MT20	4.0	6.0	
10	BMWWW-t	MT20	4.0	6.0	
11	BBWW+m	MT20	4.0	6.0	
12	BMV1+p	MT20	2.0	4.0	
13	NP+w	MT20	2.0	4.0	1.25 1.00
13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26					
13	NP+w	MT20	2.0	4.0	
22	NP+w	MT20	2.0	4.0	1.25 1.00

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
12	778	0	778	0	0
8	778	0	778	0	0

UNFACTORED REACTIONS		1ST LCASE	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE	WIND	DEAD	SOIL	
12	544	394 / 0	0 / 0	0 / 0	150 / 0	0 / 0	
8	544	394 / 0	0 / 0	0 / 0	150 / 0	0 / 0	

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 12, 8

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.52 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO	FROM TO	FR-TO	FROM TO
1-2	0 / 29	10-4	0 / 741
2-3	-1252 / 0	10-5	-538 / 0
3-4	-783 / 0	9-5	0 / 281
4-5	-783 / 0	3-10	-538 / 0
5-6	-1252 / 0	11-3	0 / 281
6-7	0 / 29	2-11	0 / 1077
12-2	-739 / 0	9-6	0 / 1077
8-6	-739 / 0		
12-11	0 / 0		
11-10	0 / 1041		
10-9	0 / 1041		
9-8	0 / 0		

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 (0.47")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.22 (2-3:1), BC=0.18 (9-10:1), WB=0.24 (6-9:1), 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

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

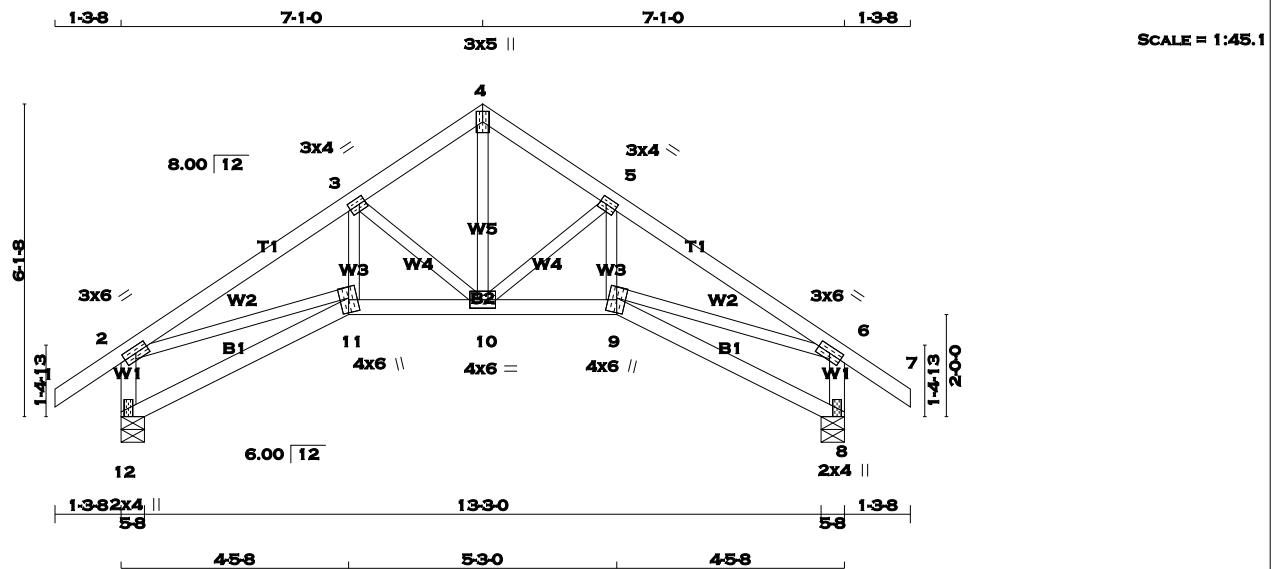
JSI GRIP= 0.78 (2) (INPUT = 0.90)
JSI METAL= 0.37 (9) (INPUT = 1.00)



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IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 61 lb
[M][F]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 4	2x4	DRY	No.2	SPF
4 - 7	2x4	DRY	No.2	SPF
12 - 2	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
12 - 11	2x4	DRY	No.2	SPF
11 - 9	2x4	DRY	No.2	SPF
9 - 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	3.0	6.0	
3	TMVW-t	MT20	3.0	4.0	1.50 1.50
4	TTW+p	MT20	3.0	5.0	
5	TMVW-t	MT20	3.0	4.0	1.50 1.50
6	TMVW-t	MT20	3.0	6.0	
8	BMV1+p	MT20	2.0	4.0	
9	BBWW+m	MT20	4.0	6.0	
10	BMVW-t	MT20	4.0	6.0	
11	BBWW+m	MT20	4.0	6.0	
12	BMV1+p	MT20	2.0	4.0	

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
12		778	0	778	0	0	5-8	5-8	
8		778	0	778	0	0	5-8	5-8	

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
12	544	394 / 0	0 / 0	0 / 0	0 / 0	150 / 0	0 / 0
8	544	394 / 0	0 / 0	0 / 0	0 / 0	150 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 12, 8

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.52 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING				TOTAL LOAD CASES: (4)			
CHORDS		MAX. FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	LC1 MAX (LC)	MEMB.	FORCE (LBS)	MAX. (LC)	
FR-TO		FROM	TO	FR-TO		LENGTH	
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10-4	0 / 741	0.17 (1)	
2-3	-1252 / 0	-77.3	-77.3 0.22 (1)	5-52	10-5	-538 / 0	0.11 (1)
3-4	-783 / 0	-77.3	-77.3 0.14 (1)	6-25	9-5	0 / 281	0.06 (1)
4-5	-783 / 0	-77.3	-77.3 0.14 (1)	6-25	3-10	-538 / 0	0.11 (1)
5-6	-1252 / 0	-77.3	-77.3 0.22 (1)	5-52	11-3	0 / 281	0.06 (1)
6-7	0 / 29	-77.3	-77.3 0.10 (1)	10-00	2-11	0 / 1077	0.24 (1)
12-2	-739 / 0	0.0	0.0 0.08 (1)	7.81	9-6	0 / 1077	0.24 (1)
8-6	-739 / 0	0.0	0.0 0.08 (1)	7.81			
12-11	0 / 0	-17.5	-17.5 0.10 (4)	10.00			
11-10	0 / 1041	-17.5	-17.5 0.18 (1)	10.00			
10-9	0 / 1041	-17.5	-17.5 0.18 (1)	10.00			
9-8	0 / 0	-17.5	-17.5 0.10 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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 (0.47")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.22 (2-3:1) , BC=0.18 (9-10:1) , WB=0.24 (6-9:1) , 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

AUTOSOLVE HEELS OFF

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.

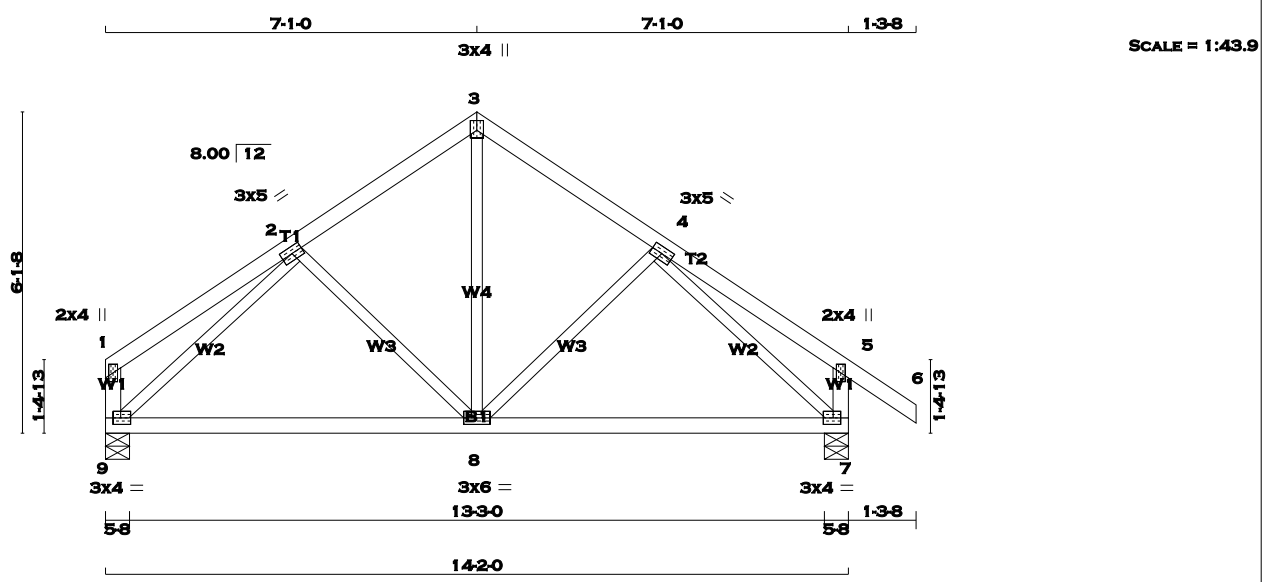
JSI GRIP= 0.78 (6) (INPUT = 0.90)
JSI METAL= 0.37 (9) (INPUT = 1.00)



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TOTAL WEIGHT = 59 lb
[M][F]

LUMBER				DESCR.
N. L. G. A. RULES	SIZE	LUMBER		
CHORDS				
1 - 3	2x4	DRY	No.2	SPF
3 - 6	2x4	DRY	No.2	SPF
9 - 1	2x4	DRY	No.2	SPF
7 - 5	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
DRY: SEASONED LUMBER.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
1	TMV+p	MT20	2.0	4.0	
2	TMWW-t	MT20	3.0	5.0	
3	TTW+p	MT20	3.0	4.0	2.25 1.50
4	TMWW-t	MT20	3.0	5.0	
5	TMV+p	MT20	2.0	4.0	
7	BMVW1-t	MT20	3.0	4.0	1.50 1.75
8	BMWWW-t	MT20	3.0	6.0	
9	BMVW1-t	MT20	3.0	4.0	1.50 1.75

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	UPLIFT
9		672	0	672	0
7		778	0	778	0

UNFACTORED REACTIONS		1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
9		472	330 / 0	0 / 0	0 / 0	0 / 0	142 / 0	0 / 0
7		544	394 / 0	0 / 0	0 / 0	0 / 0	150 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 9, 7

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 17	-77.3 -77.3	0.15 (1)	10.00	8-3	0 / 357	0.08 (1)
2-3	-531 / 0	-77.3 -77.3	0.12 (1)	6.25	8-4	-147 / 6	0.06 (1)
3-4	-531 / 0	-77.3 -77.3	0.12 (1)	6.25	2-8	-147 / 6	0.06 (1)
4-5	0 / 17	-77.3 -77.3	0.15 (1)	10.00	9-2	-744 / 0	0.29 (1)
5-6	0 / 29	-77.3 -77.3	0.10 (1)	10.00	4-7	-744 / 0	0.29 (1)
9-1	-106 / 0	0.0 0.0	0.01 (1)	7.81			
7-5	-212 / 0	0.0 0.0	0.02 (1)	7.81			
9-8	0 / 533	-17.5 -17.5	0.29 (4)	10.00			
8-7	0 / 533	-17.5 -17.5	0.29 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/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 (0.47")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.15 (4-5:1) , BC=0.29 (7-8:4) , WB=0.29 (4-7:1) , SSI=0.11 (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.

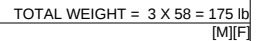
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JSI METAL= 0.21 (4) (INPUT = 1.00)



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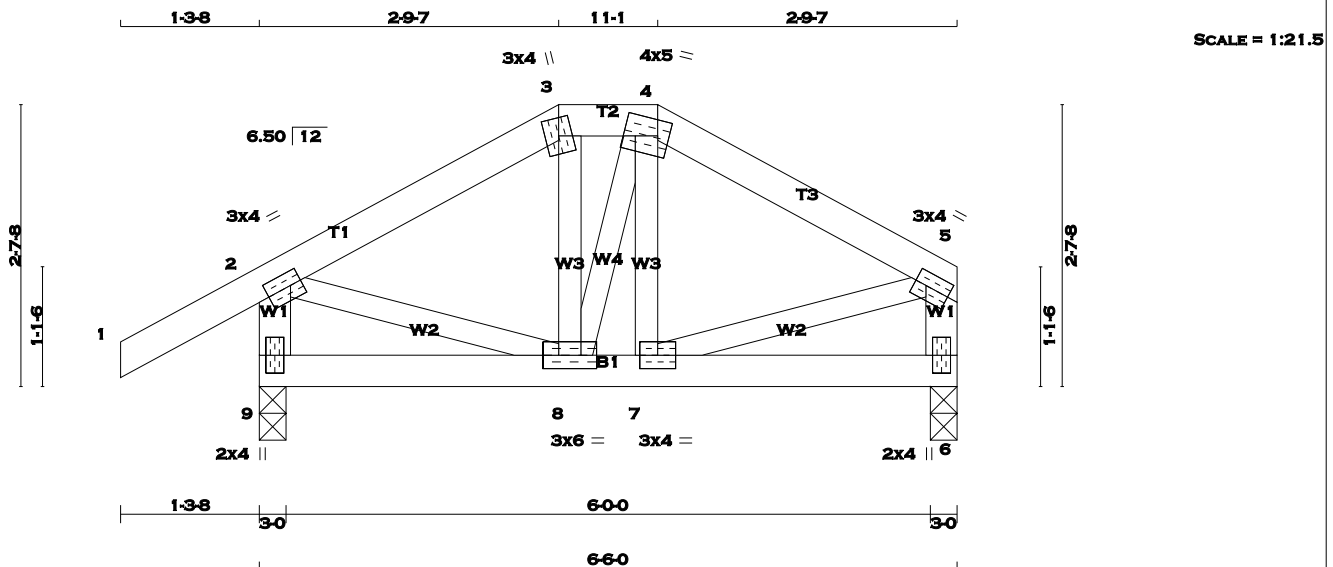




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Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Tue Mar 14 14:29:00 2017 Page 1

ID:Mljv4fvjE4MIOWrK0KvEMPyFgSL-WKQvtl4qETQOJiDuyoMu8YBNEISKD870Gjjal2zb?iH



TOTAL WEIGHT = 28 lb
[M][F]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
3 - 4	2x4	DRY	No.2
4 - 5	2x4	DRY	No.2
9 - 2	2x4	DRY	No.2
6 - 5	2x4	DRY	No.2
9 - 6	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
SPF			
DRY: SEASONED LUMBER.			

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.25
3	TTW+m	MT20	3.0	4.0		
4	TTWW-m	MT20	4.0	5.0	1.75	1.25
5	TMVW-t	MT20	3.0	4.0	1.50	1.25
6	BMV1+p	MT20	2.0	4.0		
7	BMWW-t	MT20	3.0	4.0		
8	BMWW-t	MT20	3.0	6.0		
9	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
GROSS REACTION		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
9	414	0	414	0	0	3-0	3-0	3-0	3-0
6	308	0	308	0	0	3-0	3-0	3-0	3-0

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN.	COMPONENT	REACTIONS			
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
9	288	215 / 0	0 / 0	0 / 0	0 / 0	73 / 0	0 / 0
6	216	151 / 0	0 / 0	0 / 0	0 / 0	65 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 9, 6

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

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

LOADING				TOTAL LOAD CASES: (4)			
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	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 / 25	-77.3	-77.3 0.10 (1)	10.00	8-3	-26 / 21	0.01 (4)
2-3	-246 / 0	-77.3	-77.3 0.08 (1)	6.25	8-4	-2 / 2	0.00 (4)
3-4	-215 / 0	-77.3	-77.3 0.01 (1)	6.25	7-4	-23 / 20	0.01 (4)
4-5	-247 / 0	-77.3	-77.3 0.08 (1)	6.25	2-8	0 / 224	0.05 (1)
9-2	-391 / 0	0.0	0.0 0.04 (1)	7.81	7-5	0 / 225	0.05 (1)
6-5	-286 / 0	0.0	0.0 0.03 (1)	7.81			
9-8	0 / 0	-17.5	-17.5 0.03 (4)	10.00			
8-7	0 / 216	-17.5	-17.5 0.05 (1)	10.00			
7-6	0 / 0	-17.5	-17.5 0.03 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

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 (0.22")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.22")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.00")

CSI: TC=0.10 (1-2:1), BC=0.05 (7-8:1), WB=0.05 (5-7:1), SSI=0.07 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

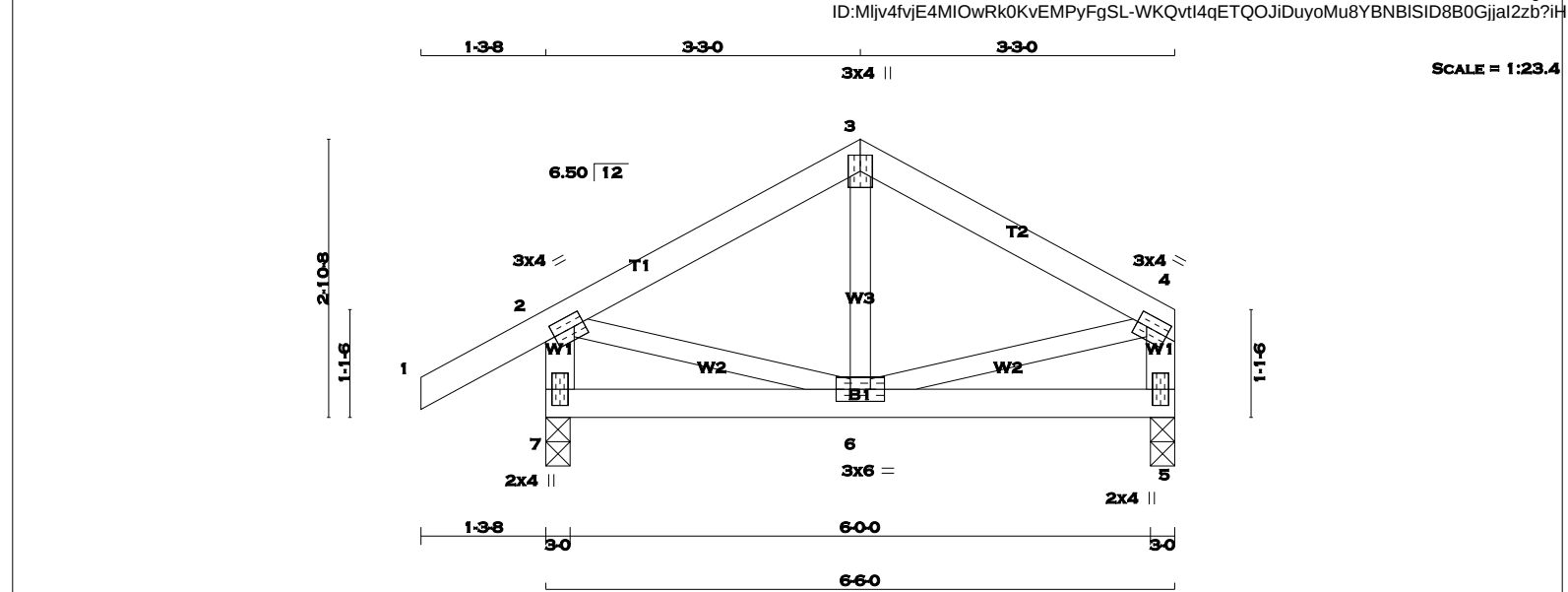
JSI GRIP= 0.56 (5) (INPUT = 0.90)
JSI METAL= 0.13 (2) (INPUT = 1.00)



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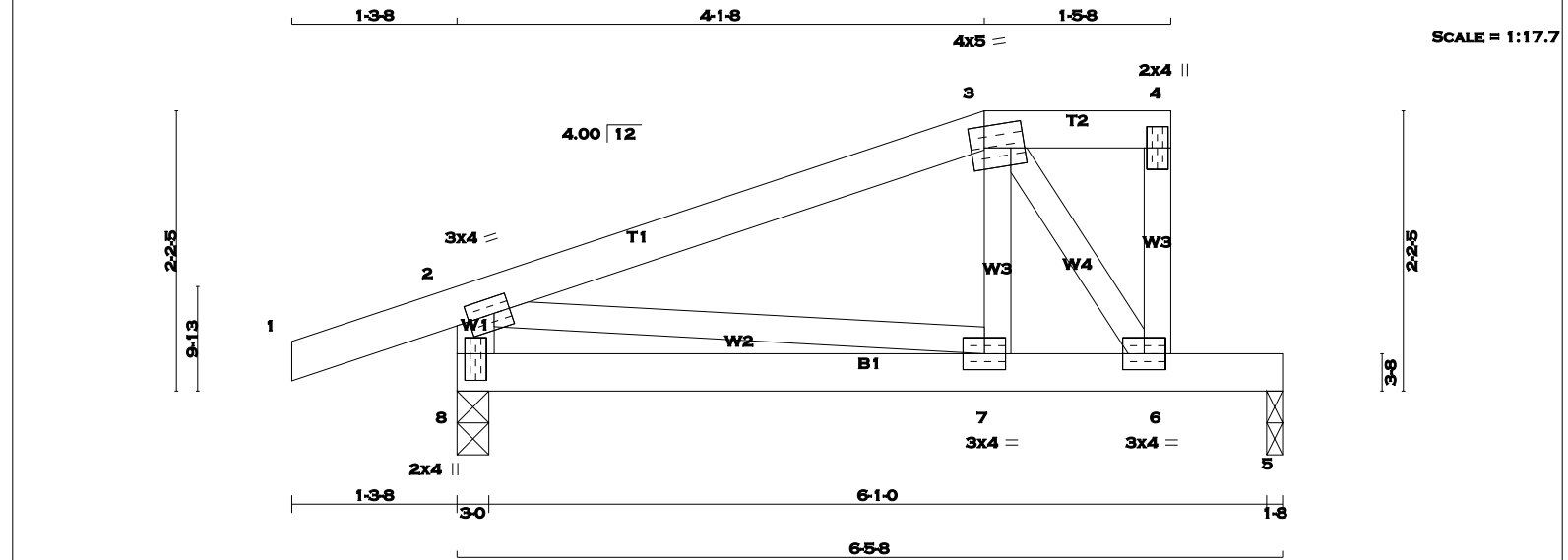


LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS								DESIGN CRITERIA								
1 - 3	2x4	DRY	No.2	SPF	FACTORED		MAXIMUM FACTORED		INPUT		REQRD		SPECIFIED LOADS:								
3 - 4	2x4	DRY	No.2	SPF	GROSS REACTION		GROSS REACTION		BRG		BRG		TOP CH. LL = 23.3 PSF								
7 - 2	2x4	DRY	No.2	SPF	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	DL = 3.0 PSF								
5 - 4	2x4	DRY	No.2	SPF	7	414	0	414	0	0	3-0	3-0	BOT CH. LL = 0.0 PSF								
7 - 5	2x4	DRY	No.2	SPF	5	308	0	308	0	0	3-0	3-0	DL = 7.0 PSF								
ALL WEBS 2x3 DRY No.2 SPF					UNFACTORED REACTIONS								TOTAL LOAD = 33.3 PSF								
DRY: SEASONED LUMBER.					1ST LCASE MAX./MIN. COMPONENT REACTIONS								SPACING = 24.0 IN. C/C								
					JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD		SOIL		THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010						
					7	288	215 / 0	0 / 0	0 / 0	0 / 0	73 / 0		0 / 0		THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011						
					5	216	151 / 0	0 / 0	0 / 0	0 / 0	65 / 0		0 / 0		(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						
					BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7, 5																
					BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.																
					ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.																
					LOADING TOTAL LOAD CASES: (4)																
					CHORDS					WEBS											
					MAX. FACTORED		FACTORED		MAX		MAX. FACTORED		MAX		MAX						
					MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX	UNBRAC	MEMB.	FORCE (LBS)	MAX	SSI (LC)							
					FR-TO		FROM	TO	LENGTH	FR-TO											
					1- 2	0 / 25	-77.3	-77.3	0.10 (1)	10.00	6- 3	-32 / 45	0.02 (4)								
					2- 3	-230 / 0	-77.3	-77.3	0.10 (1)	6.25	2- 6	0 / 208	0.05 (1)								
					3- 4	-230 / 0	-77.3	-77.3	0.10 (1)	6.25	6- 4	0 / 208	0.05 (1)								
					7- 2	-391 / 0	0.0	0.0	0.04 (1)	7.81											
					5- 4	-285 / 0	0.0	0.0	0.03 (1)	7.81											
					7- 6	0 / 0	-17.5	-17.5	0.05 (4)	10.00											
					6- 5	0 / 0	-17.5	-17.5	0.05 (4)	10.00											
					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= 0.52 (4) (INPUT = 0.90) JSI METAL= 0.13 (4) (INPUT = 1.00)																



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LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY No.2	SPF
3 - 4	2x4	DRY No.2	SPF
6 - 4	2x3	DRY No.2	SPF
8 - 2	2x4	DRY No.2	SPF
8 - 5	2x4	DRY No.2	SPF
ALL WEBS EXCEPT	2x3	DRY No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TTWW-m	MT20	4.0	5.0	2.00	1.25
4	TMV+p	MT20	2.0	4.0		
6	BMVW-t	MT20	3.0	4.0		
7	BMVW-t	MT20	3.0	4.0		
8	BMV1+p	MT20	2.0	4.0	2.50	1.00

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							
<u>BEARINGS</u>							
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
8	410	0	410	0	0	3-0	3-0
5	306	0	306	0	0	1-8	1-8

UNFACTORED REACTIONS								
JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
	COMBINED		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
8	285	213 / 0	0 / 0	0 / 0	0 / 0	0 / 0	73 / 0	0 / 0
5	215	150 / 0	0 / 0	0 / 0	0 / 0	0 / 0	65 / 0	0 / 0

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED (PLI)	UNBRAC LENGTH	
FR-TO		FROM TO			FR-TO				
1-2	0 / 16	-77.3	-77.3 0.10 (1)	10.00	7-3	0 / 231	0.05 (1)		
2-3	-278 / 0	-77.3	-77.3 0.23 (1)	6.25	3-6	-453 / 0	0.07 (1)		
3-4	0 / 0	-77.3	-77.3 0.03 (1)	10.00	2-7	0 / 265	0.06 (1)		
6-4	-56 / 0	0.0	0.0 0.01 (1)	7.81					
8-2	-383 / 0	0.0	0.0 0.04 (1)	7.81					
8-7	0 / 0	-17.5	-17.5 0.08 (4)	10.00					
7-6	0 / 276	-17.5	-17.5 0.36 (1)	10.00					
6-5	0 / 0	-94.8	-94.8 0.32 (1)	10.00					

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	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 6.00/12

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 (0.22")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.22")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.23 (2-3:1), BC=0.36 (6-7:1), WB=0.07 (3-6:1), SSI=0.24 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.64 (3) (INPUT = 0.90)
JSI METAL= 0.16 (3) (INPUT = 1.00)

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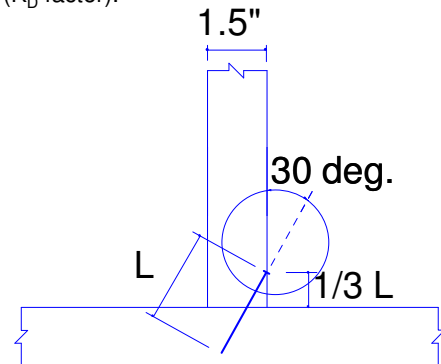
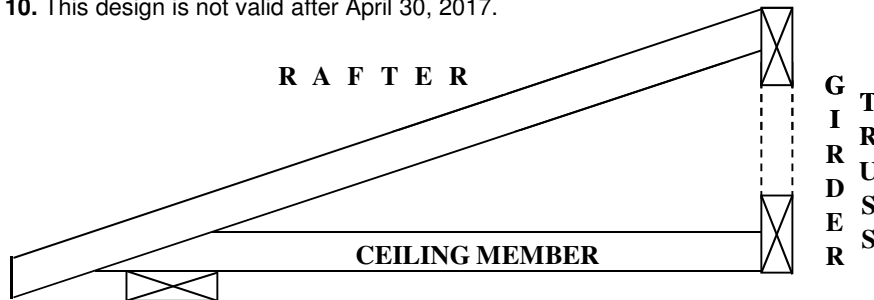
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

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
100 Industrial Rd.
Bradford, Ontario L3Z 3G7

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TOWN OF MILTON
MAR 29, 2017
17-5181
BUILDING DIVISION

PEO
Certificate No. 10889485



April 24, 2015

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

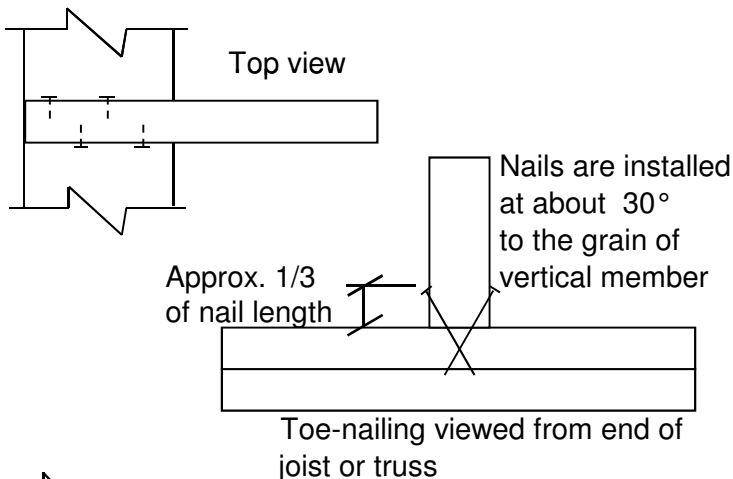
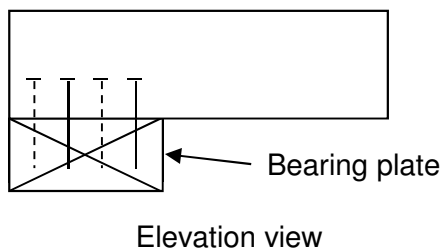
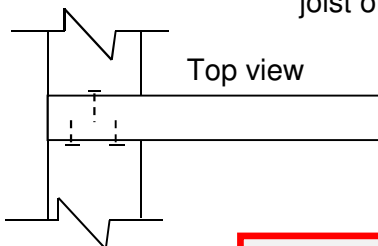
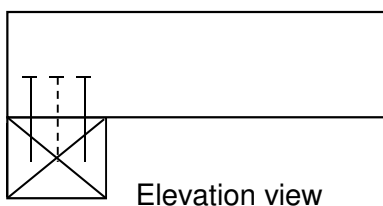
B37579H2

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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JOB NAME DETAILS

JOB DESC.

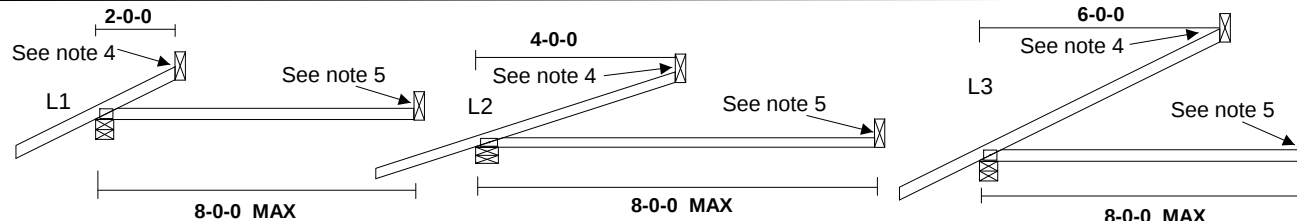
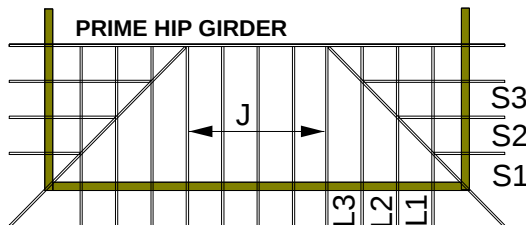
HIP END FRAMING

1000 BRIDGE-BLOCK 334

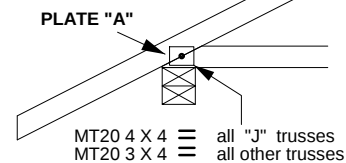
DRAWING NO.

B37579J

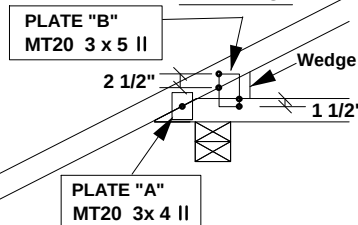
EMC JOB # 10317-073



DETAIL "A"



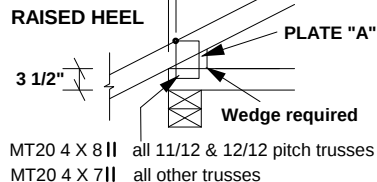
DETAIL "C"



CANTILEVER DETAIL "C"

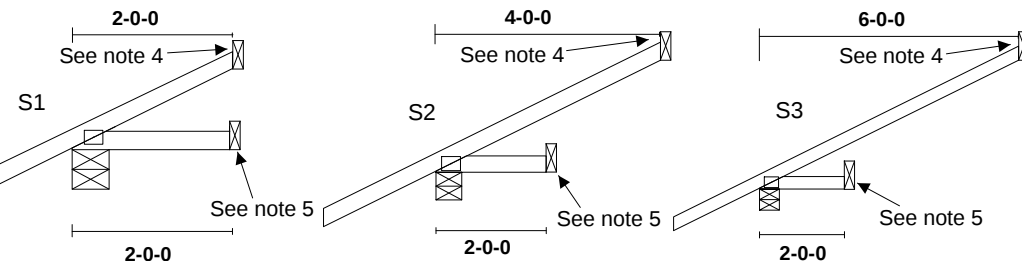
SLOPE	MAX CANTILEVER	PLATE "B"	WEDGE SIZE
3/12	17"	3 X 5	2 X 3
4/12	14"	3 X 5	2 X 3
5/12	12"	3 X 5	2 X 4
6/12	10"	3 X 5	2 X 4
7/12	9"	3 X 5	2 X 6
8/12	8.5"	3 X 5	2 X 6
9/12	8"	3 X 5	2 X 6
10/12	7.5"	3 X 5	2 X 6

DETAIL "B"

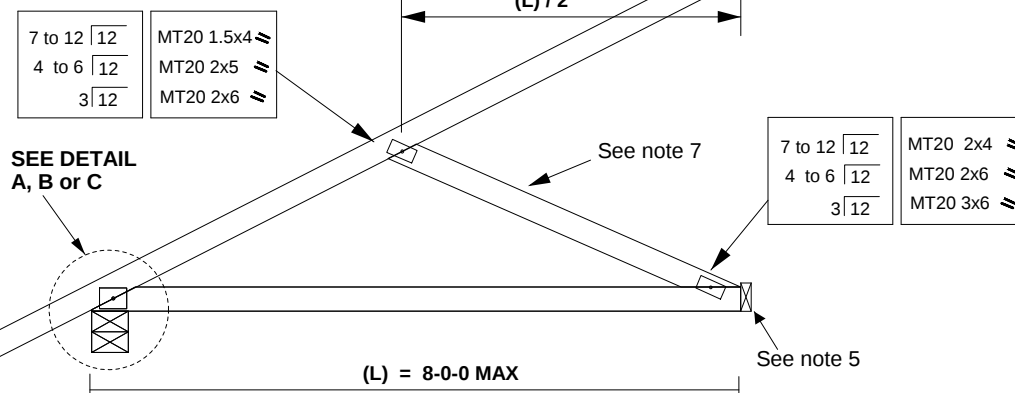


NOTES:

- ALL LUMBER SHALL BE 2x4 SPF OR D. Fir No. 2 DRY OR BETTER.
- THIS TRUSS IS DESIGNED FOR HOUSING AND SMALL BUILDING REQUIREMENTS OF PART 9 NBC 2010, WHERE GROUND SNOW LOAD IS 60.0 PSF OR LESS AND RAIN LOAD DOES NOT EXCEED 12.53 PSF; TOP CHORD DEAD LOAD IS 6 PSF OR LESS; BC LIVE LOAD IS 0 PSF AND BC DEAD LOAD IS 7 PSF.
- HIP RAFTER DESIGN SHALL CONFORM TO SECTION 9.23.14.6 OF NBC 2010.
- FASTEN HIGH END OF RAFTERS USING MITEK CANADA INC. "BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY" STANDARD DETAIL B37579H1.
- FASTEN RIGHT END OF CEILING USING MITEK CANADA INC. "BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY" STANDARD DETAIL B37579H1.
- OVERHANG LENGTH SHALL NOT EXCEED 2 FT.
- WHEN SETBACK IS 6 FT OR LESS, DIAGONAL WEB MAY BE OMITTED AND HIGH END OF TOP CHORD SHALL BE CONNECTED AS PER NOTE 4.
- ALL PLATES SPECIFIED ARE PRESSED INTO BOTH FACES OF THE TRUSS.
- MITEK REFERENCE PAGE MII-7473C FORMS AN INTEGRAL PART OF THIS DETAIL.
- THIS DETAIL IS NOT VALID AFTER APRIL 30, 2017



"J"



SEE DETAIL A, B or C

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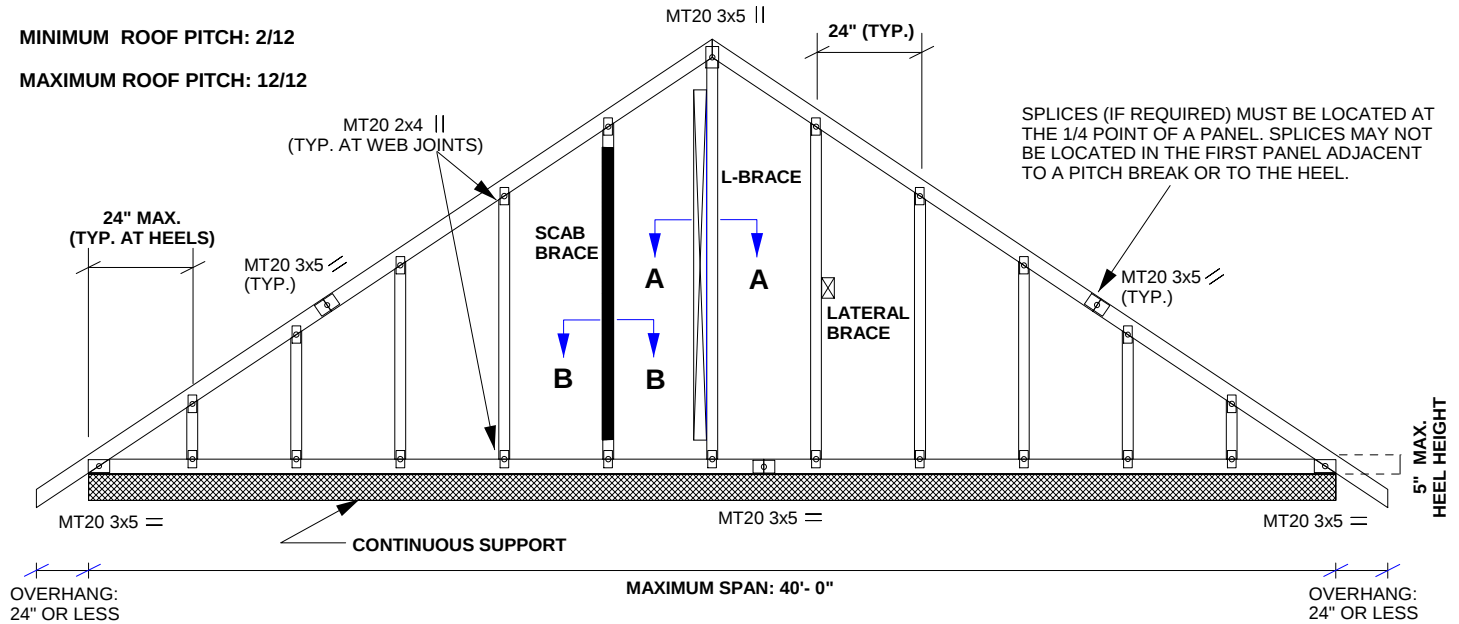


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MINIMUM ROOF PITCH: 2/12

MAXIMUM ROOF PITCH: 12/12



LUMBER

TOP CHORD: 2 X 4 No. 2 DRY SPF or D- Fir
 BOTTOM CHORD: 2 X 3 or 2 X 4 No. 2 DRY SPF or D- Fir
 GABLE WEB: 2 X 3 or 2 X 4 No. 2 DRY SPF or D- Fir

PLATES

JOINT PLATES
 HEELS MT20 3 X 5
 PEAK MT20 3 X 5
 TC SPLICES MT20 3 X 5
 BC SPLICES MT20 3 X 5
 WEB JOINTS MT20 2 X 4

DESIGN CRITERIA

TOP CHORD LL = 60.0 PSF OR LESS
 TOP CHORD DL = 6.0 PSF OR LESS
 BOTTOM CHORD LL = 0 PSF
 BOTTOM CHORD DL = 7.0 PSF

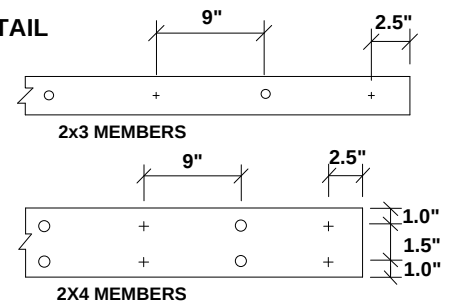
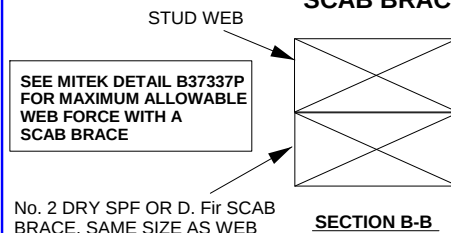
TOTAL LOAD = 73.0 PSF OR LESS

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10 FT. OR RIGID CEILING DIRECTLY APPLIED.
 WEBS MUST BE Laterally Braced, SCAB BRACED OR L-BRACED AS INDICATED IN TABLE BELOW:

WEB LENGTH (L)	SCAB BRACE	L-BRACE	LATERAL BRACE
L < 6 FT.	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED
6 FT. < L < 12 FT.	REQUIRED	2x4 L-BRACE	1 LATERAL AT 1/2 LENGTH OF WEB

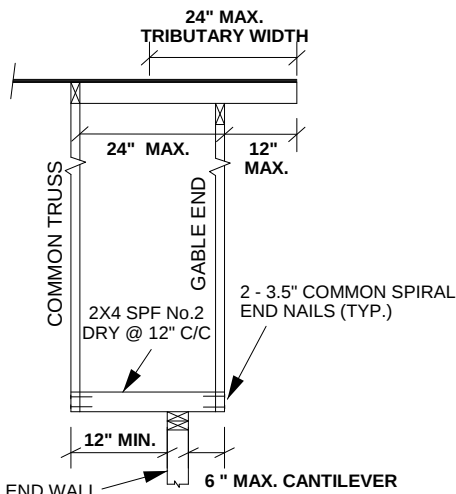
SCAB BRACE DETAIL



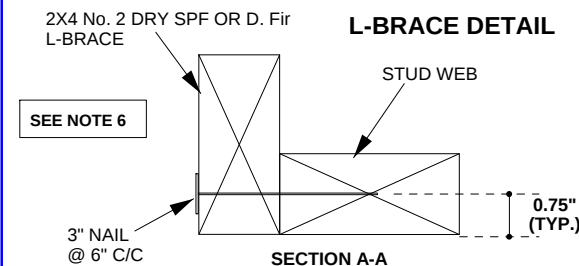
FASTEN SCAB BRACE TO ONE FACE OF WEB WITH 9-3/4 GAUGE 0.122" X 3" COMMON SPIRAL NAILS SPACED @ 9" C/C (MAX) WITH 2.5" MINIMUM END DISTANCE. SCAB BRACE MUST COVER 90% OF WEB LENGTH. DRIVE NAILS ALTERNATELY FROM FRONT AND BACK FACES.

CANTILEVER DETAIL

Note: Gable end may be cantilevered up to 6 inches past end wall as shown. Gable end to be continuously supported by 2x4 SPF No.2 (DRY) members at 12" o.c. along the bottom chord. Roof design loads shall not exceed the loading shown above.



L-BRACE DETAIL



FASTEN L-BRACE TO NARROW EDGE OF WEB WITH ONE ROW OF 9-3/4 GAUGE 0.122" X 3" COMMON SPIRAL NAILS SPACED AT 6" C/C WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

NOTES:

- Gable studs are spaced at 24" C/C (max.) with a max. length of 12 ft.
- All plates specified are MiTek MT20, centered at each joint, and pressed into both faces of truss.
- Truss spacing is 24" C/C, maximum.
- Gable truss is designed for continuous support. Bearing material must be of the same species as chord member and of grade No. 2 or better.
- This truss requires rigid sheathing attached to exposed face.
- 2x3 or 2x4 T-braces shown for gable webs in the MiTek engineering drawings may be replaced by a 2x4 L-brace as shown above.
- This truss is designed for residential or small building requirements, conforming to Part 9, NBCC 2010.
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