

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

NE0618-032
GREEN YORK HOMES-CELESTIAL 2 EL 1

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

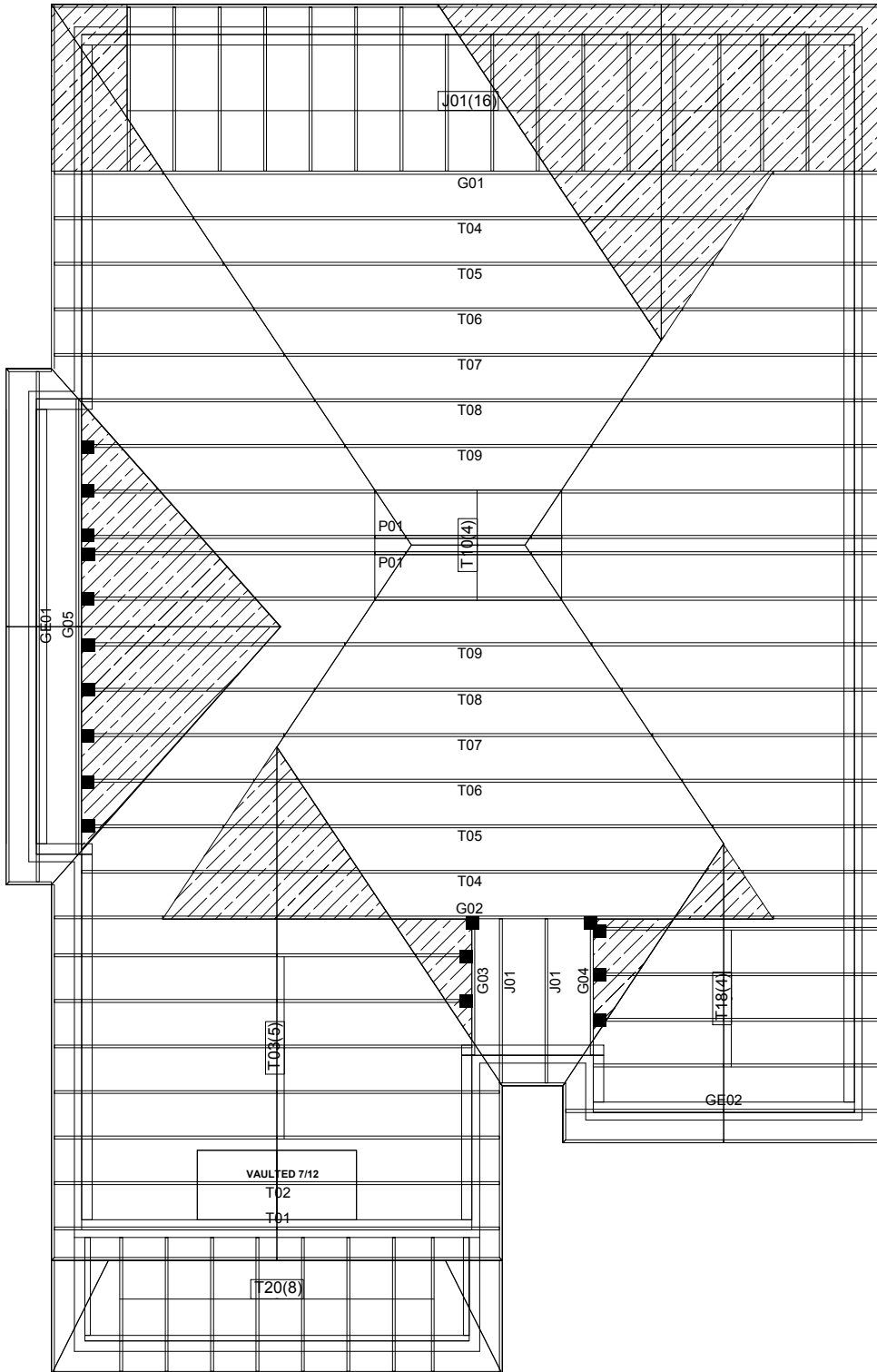
- The trusses are to be supported at the bearing points indicated and anchored to the supports where considered necessary by the designer of the overall structure
- Bearing sizes shown are the minimum required to prevent crushing of the truss members and do not necessarily take into account stability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



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



The components shown on this layout conform to our recommendations and are adequate to support the design loads required by the Ontario Building Code O.Reg 332/12 as amended and as shown on the engineering calculation page of each component.

The framing direction and girder locations shown on this layout conform to that shown on the architectural drawing.

Deflection: LL = L/360
1.33LL+DL=L/360

Architectural Drawing Info:
Date: MAY 22, 2018
Project number: 17-55
Model: CELESTIAL 2



CONVENTIONAL FRAMING BY OTHERS

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

HANGER LEGEND:

▼ LUS24
● HGUS26
■ LJS26DS
✕ HGUS26-2

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

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3 PSF
BOT CH. LL = 0 PSF
DL = 7 PSF
TOTAL LOAD = 33.3 PSF
SPACING = 24" O/C.
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010
THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, CBC 2012, ABC 2014
- CSA 085-09
- TPIC 2011

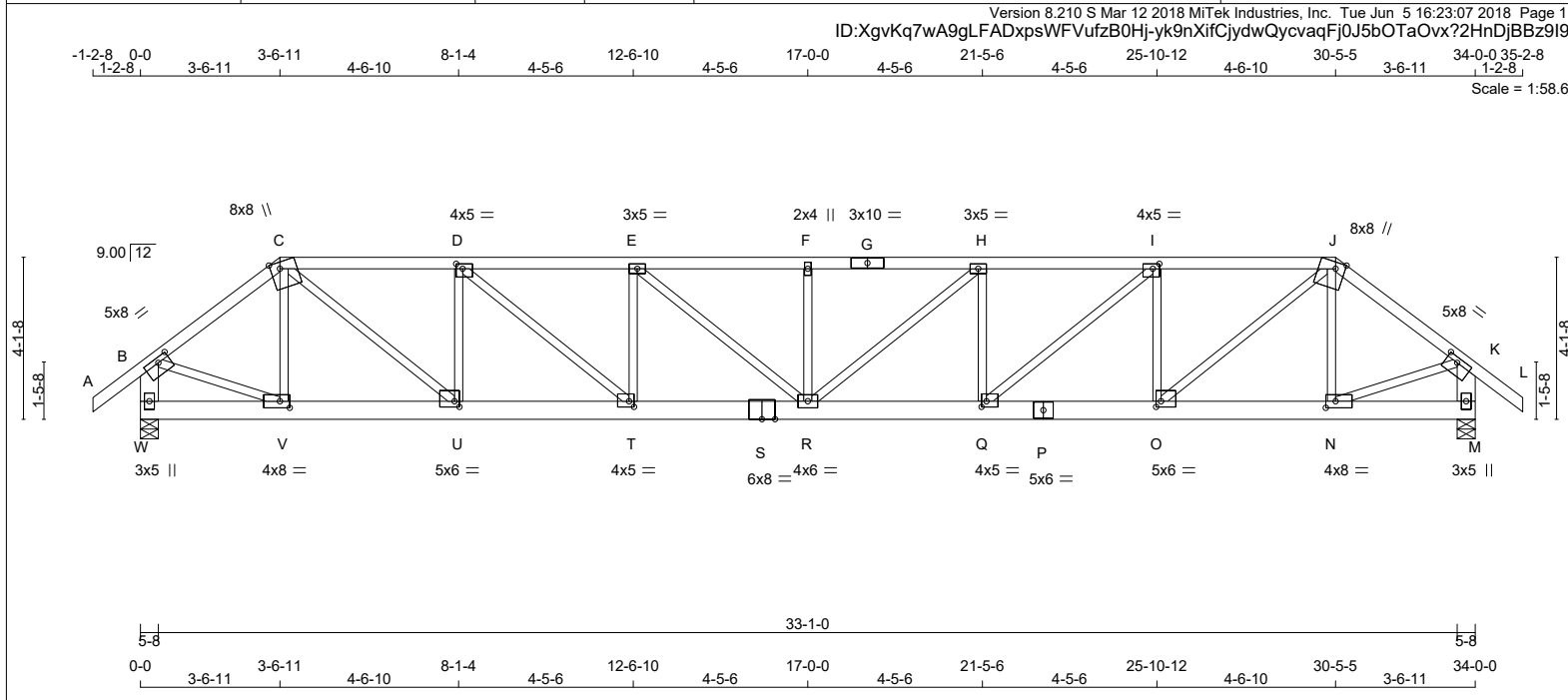
Model: **CELESTIAL 2 EL 1 4&5 BED**

Customer: **GREEN YORK HOMES**

Project: **GRANELLI HOMES**

Location: **BRAMPTON**

Date: **5/31/2018** Drawn by: **BB**



TOTAL WEIGHT = 160 lb [M]

N. L. G. A. RULES										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA									
CHORDS SIZE LUMBER DESCR.										BEARINGS										SPECIFIED LOADS:									
A - C 2x4 DRY No.2 SPF										FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT BRG REQRD BRG										TOP CH. LL = 23.3 PSF									
C - G 2x4 DRY 2100F 1.8E SPF										JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX										DL = 3.0 PSF									
G - J 2x4 DRY 2100F 1.8E SPF										W 3104 0 3104 0 0 5-8 5-8										BOT CH. LL = 0.0 PSF									
J - L 2x4 DRY No.2 SPF										M 3104 0 3104 0 0 5-8 5-8										DL = 7.0 PSF									
W - B 2x6 DRY No.2 SPF																				TOTAL LOAD = 33.3 PSF									
M - K 2x6 DRY No.2 SPF																													
W - S 2x6 DRY No.2 SPF																													
S - P 2x6 DRY No.2 SPF																													
P - M 2x6 DRY No.2 SPF																				SPACING = 24.0 IN./C									
ALL WEBS 2x3 DRY No.2 SPF										UNFACTORED REACTIONS										LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM									
EXCEPT										1ST LCASE MAX./MIN. COMPONENT REACTIONS																			
										JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL																			
										W 2177 1531 / 0 0 / 0 0 / 0 0 / 0 646 / 0 0 / 0																			
										M 2177 1531 / 0 0 / 0 0 / 0 0 / 0 646 / 0 0 / 0																			
DRY: SEASONED LUMBER.										BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) W, M										GIRDER TYPE: CPrimeHip									
										BRACING										SIDE SETBACK = 3-6-11									
										TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.97 FT.										END SETBACK = 6-0-0									
										MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.										END WALL WIDTH = 5-8									
																				CORNER FRAMING TYPE: CONVENTIONAL									
																				END JACK TYPE: CONVENTIONAL									
																				APPLIED TO FRONT SIDE									
																				- ADDTL LOADS BASED ON 55 % OF GSL.									
																				THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010									
																				THIS DESIGN COMPLIES WITH:									
																				- PART 9 OF OBC 2012, BCBC 2012, ABC 2014									
																				- CSA 086-09									
																				- TPIC 2011									
																				(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD									
																				ALLOWABLE DEFL.(LL)= L/360 (1.13")									
																				CALCULATED VERT. DEFL.(LL)= L/ 999 (0.37")									
																				ALLOWABLE DEFL.(TL)= L/360 (1.13")									
																				CALCULATED VERT. DEFL.(TL)= L/ 638 (0.64")									
																				CSI: TC=0.58/1.00 (D-E:1), BC=0.95/1.00 (R-T:1), WB=0.79/1.00 (J-O:1), SSI=0.34/1.00 (I-J: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									

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



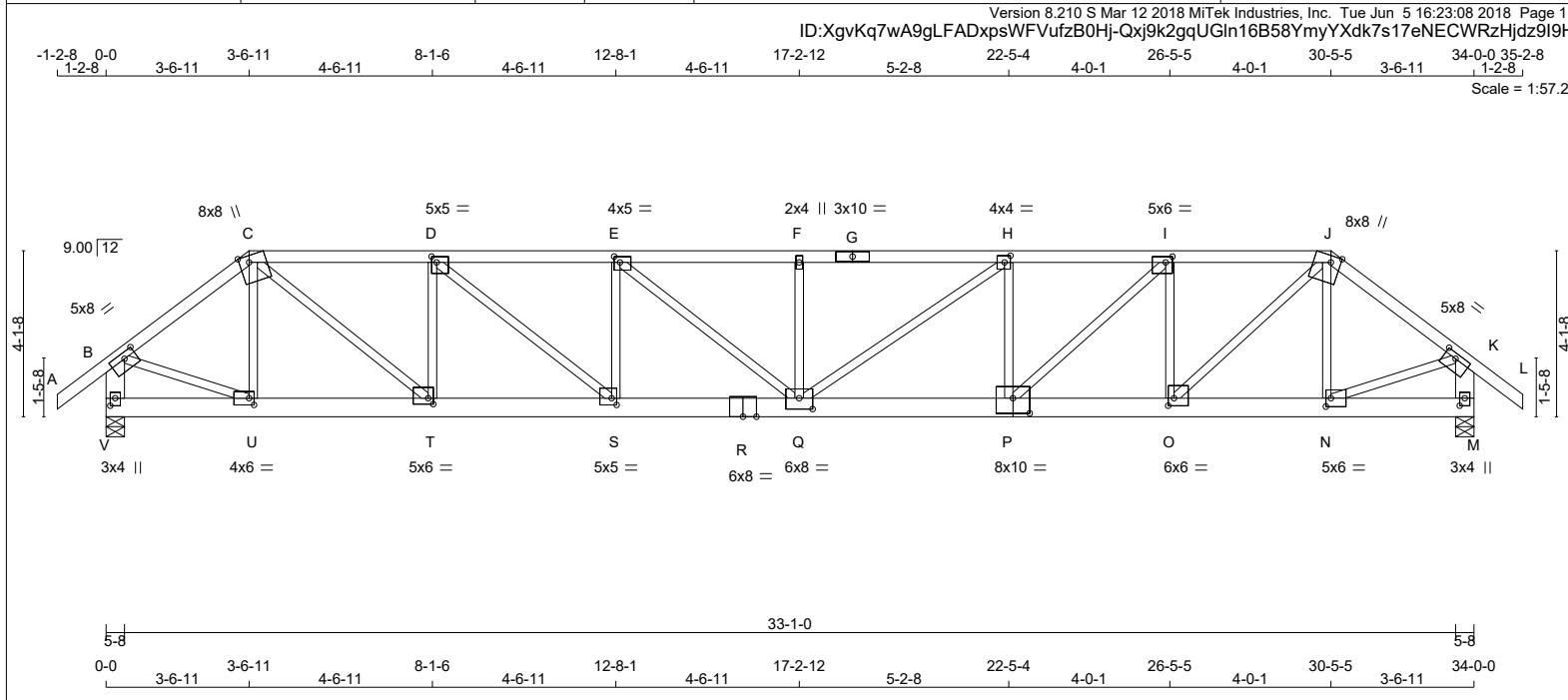
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN YORK HOMES-CELESTIAL 2017	DWG NO.
NE0618-032	G01	1	1	TRUSS DESC.	1	PAGE 4 OF 30

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 206.4 lbs FACTORED DOWN AT 30-5-5, AND 206.4 lbs FACTORED DOWN AT 3-6-11 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP= 0.90 (V) (INPUT = 0.90)
JSI METAL= 0.88 (S) (INPUT = 1.00)

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TOTAL WEIGHT = 160 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - G	2x4	DRY	2100F 1.8E	SPF
G - J	2x4	DRY	2100F 1.8E	SPF
J - L	2x4	DRY	No.2	SPF
V - B	2x6	DRY	No.2	SPF
M - K	2x6	DRY	No.2	SPF
V - R	2x6	DRY	2100F 1.8E	SPF
R - P	2x6	DRY	2100F 1.8E	SPF
P - M	2x6	DRY	2100F 1.8E	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	8.0	1.75	3.50
C	TTWW+m	MT20	8.0	8.0	Edge	3.00
D	TMWW-t	MT20	5.0	5.0	1.75	1.50
E	TMWW-t	MT20	4.0	5.0	1.75	1.75
F	TMW+w	MT20	2.0	4.0		
G	TS-t	MT20	3.0	10.0		
H	TMWW-t	MT20	4.0	4.0	2.00	1.75
I	TMWW-t	MT20	5.0	6.0	1.75	2.00
J	TTWW+m	MT20	8.0	8.0	Edge	3.00
K	TMVW-t	MT20	5.0	8.0	1.50	3.50
M	BMV1+p	MT20	3.0	4.0	2.25	1.50
N	BMWW-t	MT20	5.0	6.0	2.50	1.50
O	BMWW-t	MT20	6.0	6.0	2.25	1.75
P	BSWW-I	MT20	8.0	10.0	4.50	5.00
Q	BMWW-t	MT20	6.0	8.0	3.25	4.00
R	BS-t	MT20	6.0	8.0		
S	BMWW-t	MT20	5.0	5.0	2.00	1.50
T	BMWW-t	MT20	5.0	6.0	1.75	1.50
U	BMWW-t	MT20	4.0	6.0	2.00	1.50
V	BMV1+p	MT20	3.0	4.0	2.25	1.50

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ
JT	2685	0	2685	0
V	2999	0	2999	0
M				

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS
	COMBINED	SNOW
JT	1882	1329 / 0
V	2103	1484 / 0
M		

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.76 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX (LC)	
FR-TO		FROM	TO	UNBRAC LENGTH	FR-TO		
A-B	0 / 30	-77.4	-77.4	0.10 (1)	10.00	U-C	-554 / 0
B-C	-2927 / 0	-77.4	-77.4	0.33 (1)	3.75	C-T	0 / 3184
C-D	-4784 / 0	-77.4	-77.4	0.30 (1)	3.78	T-D	-1967 / 0
D-E	-6717 / 0	-77.4	-77.4	0.45 (1)	3.14	D-S	0 / 2503
E-F	-8093 / 0	-77.4	-77.4	0.54 (1)	2.81	S-E	-1470 / 0
F-G	-8093 / 0	-77.4	-77.4	0.65 (1)	2.76	E-Q	0 / 1782
G-H	-8093 / 0	-77.4	-77.4	0.65 (1)	2.76	Q-F	-380 / 0
H-I	-7254 / 0	-77.4	-77.4	0.43 (1)	3.03	Q-H	0 / 1034
I-J	-5134 / 0	-77.4	-77.4	0.27 (1)	3.69	P-H	-967 / 0
J-K	-3302 / 0	-77.4	-77.4	0.37 (1)	3.52	P-I	0 / 2904
K-L	0 / 30	-77.4	-77.4	0.10 (1)	10.00	O-I	-2289 / 0
V-B	-2670 / 0	0.0	0.0	0.19 (1)	6.33	O-J	0 / 3441
M-K	-2982 / 0	0.0	0.0	0.21 (1)	6.05	N-J	-649 / 0
						B-U	0 / 2430
V-U	0 / 0	-17.5	-17.5	0.03 (1)	10.00	N-K	0 / 2741
U-T	0 / 2321	-17.5	-17.5	0.15 (1)	10.00		
T-S	0 / 4784	-17.5	-17.5	0.29 (1)	10.00		
S-R	0 / 6717	-17.5	-17.5	0.44 (1)	10.00		
R-Q	0 / 6717	-17.5	-17.5	0.44 (1)	10.00		
Q-P	0 / 7254	-17.5	-17.5	0.47 (1)	10.00		
P-O	0 / 5134	-17.5	-17.5	0.31 (1)	10.00		
O-N	0 / 2617	-17.5	-17.5	0.16 (1)	10.00		
N-M	0 / 0	-17.5	-17.5	0.02 (4)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
P	22-5-4	-928	-928	---	FRONT	VERT	TOTAL
Q	17-2-12	-1331	-1331	---	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 2.00/12 MINIMUM

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.13")
CALCULATED VERT. DEFL.(LL)= L/999 (0.38")
ALLOWABLE DEFL.(TL)= L/360 (1.13")
CALCULATED VERT. DEFL.(TL)= L/607 (0.67")

CSI: TC=0.65/1.00 (F-H:1), BC=0.47/1.00 (P-Q:1), WB=0.85/1.00 (J-O:1), SSI=0.18/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

CONTINUED ON PAGE 2



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN YORK HOMES-CELESTIAL 2017	DWG NO.
NE0618-032	G02	1	1	TRUSS DESC.	1	PAGE 6 OF 30

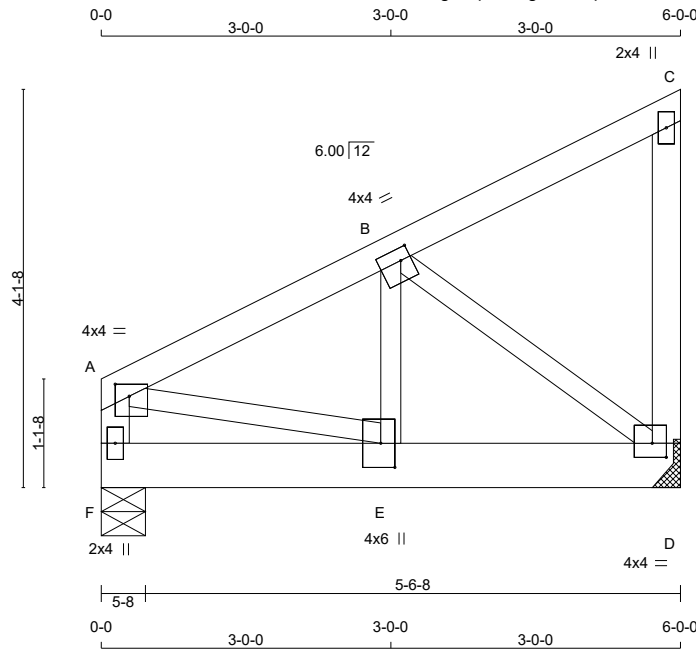
Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Jun 5 16:23:08 2018 Page 2
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HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 1330.9 lbs FACTORED DOWN AT 17-2-12, AND 927.6 lbs FACTORED DOWN AT 22-5-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP= 0.90 (O) (INPUT = 0.90)
JSI METAL= 0.98 (P) (INPUT = 1.00)

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





Scale: 1/2"=1'

TOTAL WEIGHT = 29 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
F - A	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
D - C	2x4	DRY	No.2	SPF
F - D	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
A	TMVW-p	MT20	4.0	4.0	1.50	1.75
B	TMWW-t	MT20	4.0	4.0	1.50	1.25
C	TMV+p	MT20	2.0	4.0		
D	BMVW1-t	MT20	4.0	4.0	1.75	1.75
E	BMWW+t	MT20	4.0	6.0	3.00	1.75
F	BMV1+p	MT20	2.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
F	1331	0	1331	0	5-8	5-8
D	1331	0	1331	0	MECHANICAL	

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
F	934	653 / 0	0 / 0	0 / 0	0 / 0	281 / 0	0 / 0	
D	934	653 / 0	0 / 0	0 / 0	0 / 0	281 / 0	0 / 0	

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.78 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS				WEBS			
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX CSI (LC)	MAX. MEMB. UNBRAC LENGTH	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX CSI (LC)
FR-TO		FROM	TO					
F-A	-870 / 0	0.0	0.0	0.10 (1)	7.81	A-E	0 / 1071	0.27 (1)
A-B	-1154 / 0	-77.4	-77.4	0.11 (1)	5.78	E-B	0 / 1021	0.25 (1)
B-C	-9 / 0	-77.4	-77.4	0.09 (1)	10.00	B-D	-1297 / 0	0.31 (1)
D-C	-95 / 0	0.0	0.0	0.02 (1)	7.81			
F-E	0 / 0	-366.3	-366.3	0.21 (1)	10.00			
E-D	0 / 1041	-366.3	-366.3	0.35 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

GIRDER TYPE: CStd Girder
START DISTANCE = 0-0
START SPAN CARRIED = 17-2-0
END DISTANCE = 6-0-0
END SPAN CARRIED = 17-2-0
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADD'L LOADS BASED ON 55 % OF GSL.

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

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

(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 (0.03")

CSI: TC=0.11/1.00 (A-B:1), BC=0.35/1.00 (D-E:1), WB=0.31/1.00 (B-D:1), SSI=0.42/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

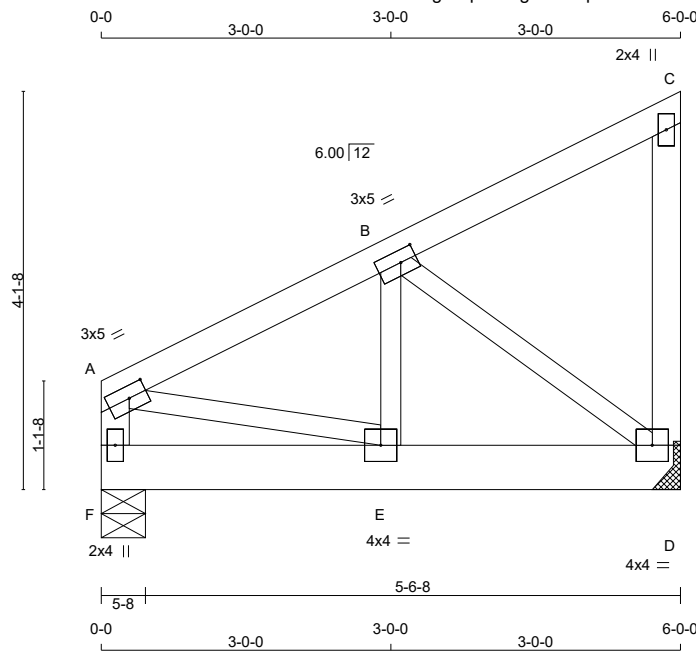
READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



CONTINUED ON PAGE 2



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ID:XgvKq7wA9gLFADxpsWfVufzB0Hj-u7HXxOgSEatefGmliFHB5kA2CGQ4N_ML5iqF3z9l9Z



TOTAL WEIGHT = 29 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	DRY	LUMBER	DESCR.
F - A	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
D - C	2x4	DRY	No.2	SPF
F - D	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
A	TMVW-t	MT20	3.0	5.0	1.50 2.25
B	TMWW-t	MT20	3.0	5.0	1.50 2.00
C	TMV+p	MT20	2.0	4.0	
D	BMVW1-t	MT20	4.0	4.0	
E	BMWW-t	MT20	4.0	4.0	
F	BMV1+p	MT20	2.0	4.0	

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
	VERT	DOWN	IN-SX	IN-SX
F	928	0	5-8	5-8
D	928	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	651	456 / 0	0 / 0	0 / 0	0 / 0	0 / 0	196 / 0	0 / 0
D	651	456 / 0	0 / 0	0 / 0	0 / 0	0 / 0	196 / 0	0 / 0

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

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				MEMB.	WEBS			
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX CSI (LC)		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		FROM	TO	
F-A	-633 / 0	0.0	0.0	0.07 (1)	A-E	0 / 748	0.19 (1)		
A-B	-802 / 0	-77.4	-77.4	0.12 (1)	E-B	0 / 625	0.15 (1)		
B-C	-10 / 0	-77.4	-77.4	0.10 (1)	B-D	-905 / 0	0.22 (1)		
D-C	-93 / 0	0.0	0.0	0.02 (1)					
F-E	0 / 0	-231.9	-231.9	0.14 (1)					
E-D	0 / 726	-231.9	-231.9	0.23 (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: CStd Girder
START DISTANCE = 0-0
START SPAN CARRIED = 11-6-0
END DISTANCE = 6-0-0
END SPAN CARRIED = 11-6-0
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=0.12/1.00 (A-B:1), BC=0.23/1.00 (D-E:1), WB=0.22/1.00 (B-D:1), SSI=0.27/1.00 (E-F: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.

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



CONTINUED ON PAGE 2



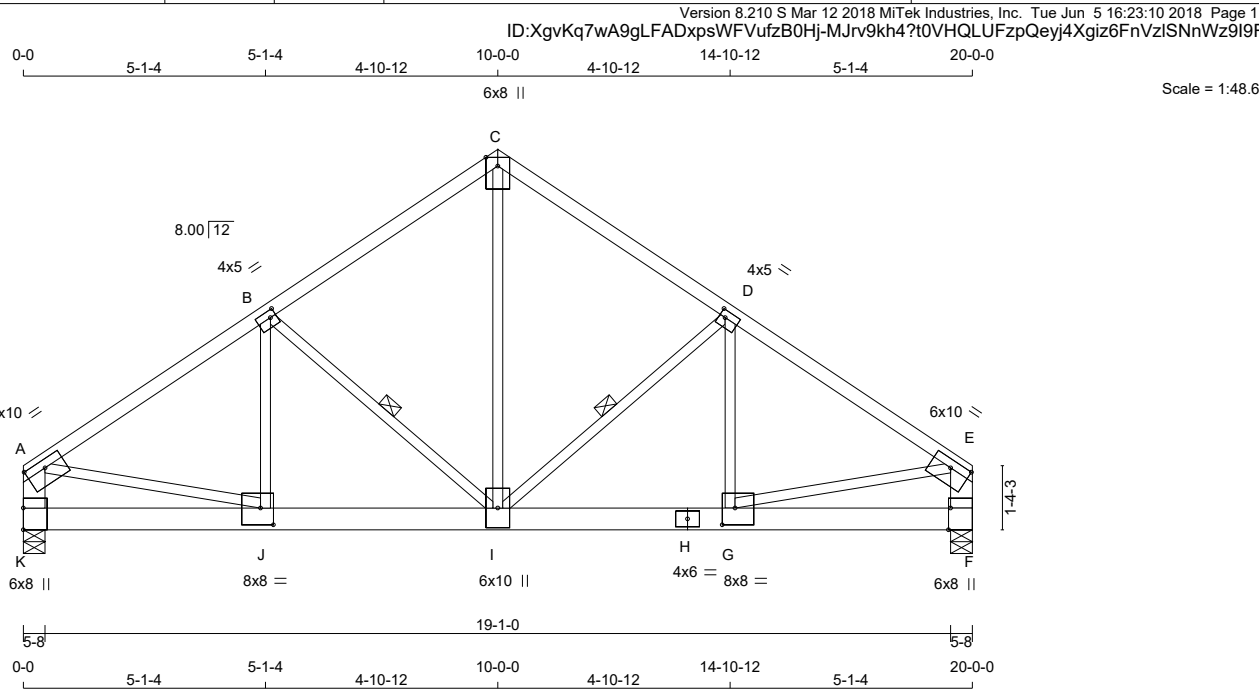
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN YORK HOMES-CELESTIAL 2	DWG NO.
NE0618-032	G04	1	1	TRUSS DESC.	1	PAGE 9 OF 30

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Jun 5 16:23:09 2018 Page 2
ID:XgvKq7wA9gLFADxpsWfVufzB0Hj-u7HXxOgSEatefGmliFHB5kA2CGQ4N_MLI5iqF3z9I9G

JSI GRIP= 0.83 (A) (INPUT = 0.90)
JSI METAL= 0.27 (D) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON
ENGINEERING NOTE PAGE ENP-1. THIS
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TOTAL WEIGHT = 2 X 97 = 193 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
K - A	2x6	DRY	No.2	SPF
F - E	2x6	DRY	No.2	SPF
K - H	2x6	DRY	2100F 1.8E	SPF
H - F	2x6	DRY	2100F 1.8E	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		
A- C	12	TOP
C- E	12	TOP
K- A	12	TOP
F- E	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
K- H	8	SIDE(374.0)
H- F	8	SIDE(374.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	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 TRANSFERRING. 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
A TMVW-t	MT20	6.0	10.0	2.00	5.00

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	DOWN	HORZ	UPLIFT	BRG	IN-SX
K	8429	0	8429	0	0	5-8	5-8	5-8	5-8
F	8429	0	8429	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
K	5915	4138 / 0	0 / 0	0 / 0	0 / 0	0 / 0	1777 / 0	0 / 0
F	5915	4138 / 0	0 / 0	0 / 0	0 / 0	0 / 0	1777 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.88 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.

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF D-I, B-I. DBS = 10-0-0. CBF = 170 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1	MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX UNBRAC LENGTH	MAX CSI (LC)	
FR-TO		FROM TO			FR-TO				
A- B	-9307 / 0	-77.4 -77.4	0.65 (1)	2.88	I- C	0 / 7310		0.90 (1)	
B- C	-6893 / 0	-77.4 -77.4	0.39 (1)	3.52	I- D	-2722 / 0		0.42 (1)	
C- D	-6893 / 0	-77.4 -77.4	0.39 (1)	3.52	G- D	0 / 2720		0.34 (1)	
D- E	-9307 / 0	-77.4 -77.4	0.65 (1)	2.88	B- I	-2722 / 0		0.42 (1)	
K- A	-6776 / 0	0.0 0.0	0.24 (1)	5.73	J- B	0 / 2720		0.34 (1)	
F- E	-6776 / 0	0.0 0.0	0.24 (1)	5.73	A- J	0 / 7889		0.98 (1)	
					G- E	0 / 7889		0.98 (1)	
K- J	0 / 0	-765.5 -765.5	0.36 (1)	10.00					
J- I	0 / 7757	-765.5 -765.5	0.51 (1)	10.00					
I- H	0 / 7757	-765.5 -765.5	0.51 (1)	10.00					
H- G	0 / 7757	-765.5 -765.5	0.51 (1)	10.00					
G- F	0 / 0	-765.5 -765.5	0.36 (1)	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

GIRDER TYPE: CStd Girder
START DISTANCE = 0-0
START SPAN CARRIED = 34-0-0
END DISTANCE = 20-0-0
END SPAN CARRIED = 34-0-0
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 (0.67")
CALCULATED VERT. DEFL.(LL)= L/999 (0.13")
ALLOWABLE DEFL.(TL)= L/360 (0.67")
CALCULATED VERT. DEFL.(TL)= L/999 (0.23")

CSI: TC=0.65/1.00 (D-E:1), BC=0.51/1.00 (G-I:1), WB=0.98/1.00 (E-G:1), SSI=0.75/1.00 (F-G: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.

CONTINUED ON PAGE 2



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

PLATES (table is in inches)

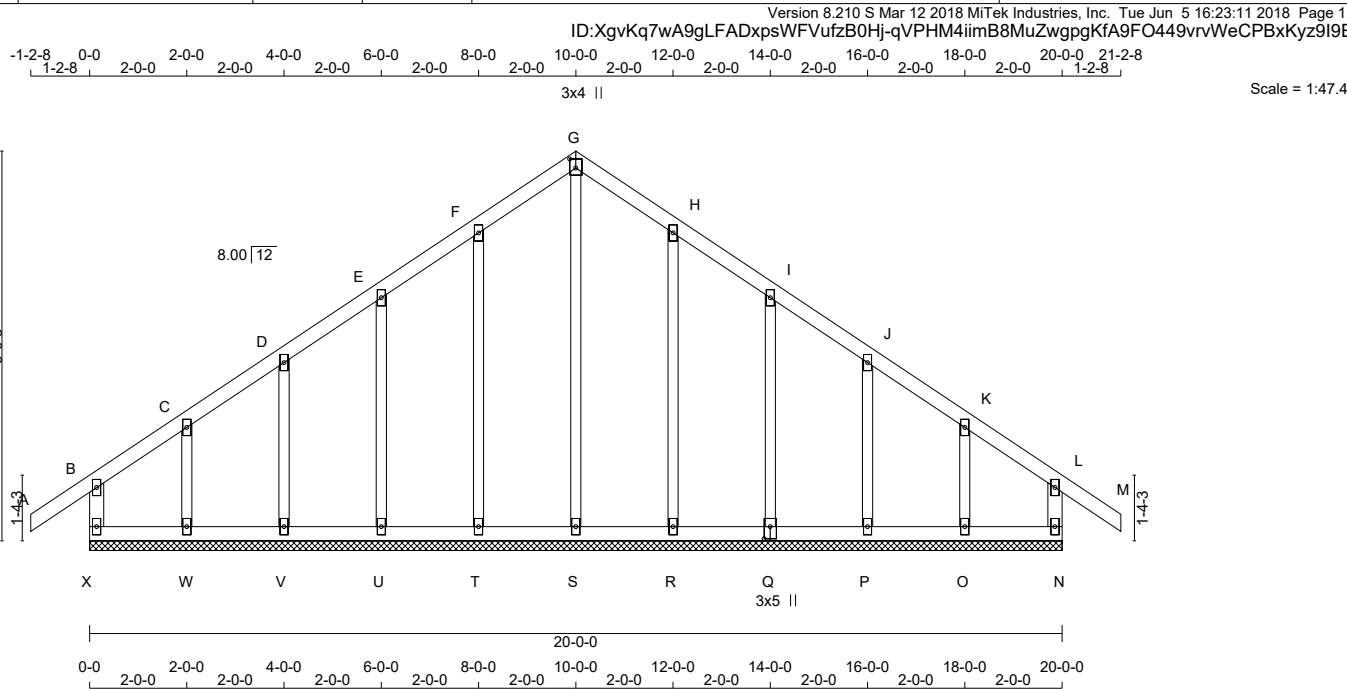
JT	TYPE	PLATES	W	LEN	Y	X
B	TMWW-t	MT20	4.0	5.0	1.75	1.50
C	TTW+p	MT20	6.0	8.0	Edge	
D	TMWW-t	MT20	4.0	5.0	1.75	1.50
E	TMVW-t	MT20	6.0	10.0	2.00	5.00
F	BMV1+t	MT20	6.0	8.0	Edge	0.50
G	BMWW-t	MT20	8.0	8.0	4.25	3.25
H	BS-t	MT20	4.0	6.0		
I	BMWWW+t	MT20	6.0	10.0		
J	BMWW-t	MT20	8.0	8.0	4.25	3.25
K	BMV1+t	MT20	6.0	8.0	5.50	

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

JSI GRIP= 0.89 (J) (INPUT = 0.90)
JSI METAL= 0.81 (H) (INPUT = 1.00)

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





LUMBER
N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
X - B	2x4	DRY	No.2	SPF
A - G	2x4	DRY	No.2	SPF
G - M	2x4	DRY	No.2	SPF
N - L	2x4	DRY	No.2	SPF
X - Q	2x4	DRY	No.2	SPF
Q - N	2x4	DRY	No.2	SPF

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

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2'-0" OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
C, D, E, F, H, I, J, K						
C	TMW+w	MT20	2.0	4.0		
G	TTW+p	MT20	3.0	4.0	2.25	1.50
L	TMV+p	MT20	2.0	4.0		
N	BMV1+p	MT20	2.0	4.0		
O, P, R, S, T, U, V, W						
Q	BMW1+w	MT20	2.0	4.0		
O	BSW1+H	MT20	3.0	5.0	3.00	1.50
X	BMV1+p	MT20	2.0	4.0		

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 LC1 (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 (LC)
FR-TO		FROM TO			FR-TO		
X-B	-190 / 0	0.0	0.0 0.02 (1)	7.81	S-G	-147 / 0	0.18 (1)
A-B	0 / 28	-77.4	-77.4 0.09 (1)	10.00	T-F	-157 / 0	0.12 (1)
B-C	-29 / 0	-77.4	-77.4 0.03 (1)	6.25	U-E	-152 / 0	0.07 (1)
C-D	-22 / 0	-77.4	-77.4 0.04 (1)	6.25	V-D	-154 / 0	0.04 (1)
D-E	-19 / 0	-77.4	-77.4 0.04 (1)	6.25	W-C	-147 / 0	0.02 (1)
E-F	-15 / 0	-77.4	-77.4 0.04 (1)	6.25	R-H	-157 / 0	0.12 (1)
F-G	-13 / 0	-77.4	-77.4 0.04 (1)	6.25	Q-I	-152 / 0	0.07 (1)
G-H	-13 / 0	-77.4	-77.4 0.04 (1)	6.25	P-J	-154 / 0	0.04 (1)
H-I	-15 / 0	-77.4	-77.4 0.04 (1)	6.25	O-K	-147 / 0	0.02 (1)
I-J	-19 / 0	-77.4	-77.4 0.04 (1)	6.25			
J-K	-22 / 0	-77.4	-77.4 0.04 (1)	6.25			
K-L	-29 / 0	-77.4	-77.4 0.03 (1)	6.25			
L-M	0 / 28	-77.4	-77.4 0.09 (1)	10.00			
N-L	-190 / 0	0.0	0.0 0.02 (1)	7.81			
X-W	0 / 24	-17.5	-17.5 0.02 (1)	10.00			
W-V	0 / 19	-17.5	-17.5 0.02 (4)	10.00			
V-U	0 / 15	-17.5	-17.5 0.01 (4)	10.00			
U-T	0 / 13	-17.5	-17.5 0.01 (4)	10.00			
T-S	0 / 11	-17.5	-17.5 0.01 (4)	10.00			
S-R	0 / 11	-17.5	-17.5 0.01 (4)	10.00			
R-Q	0 / 13	-17.5	-17.5 0.01 (4)	10.00			
Q-P	0 / 16	-17.5	-17.5 0.01 (4)	10.00			
P-O	0 / 19	-17.5	-17.5 0.02 (4)	10.00			
O-N	0 / 24	-17.5	-17.5 0.02 (1)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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=0.09/1.00 (L-M:1), BC=0.02/1.00 (N-O:1), WB=0.18/1.00 (G-S:1), SSI=0.06/1.00 (L-M: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

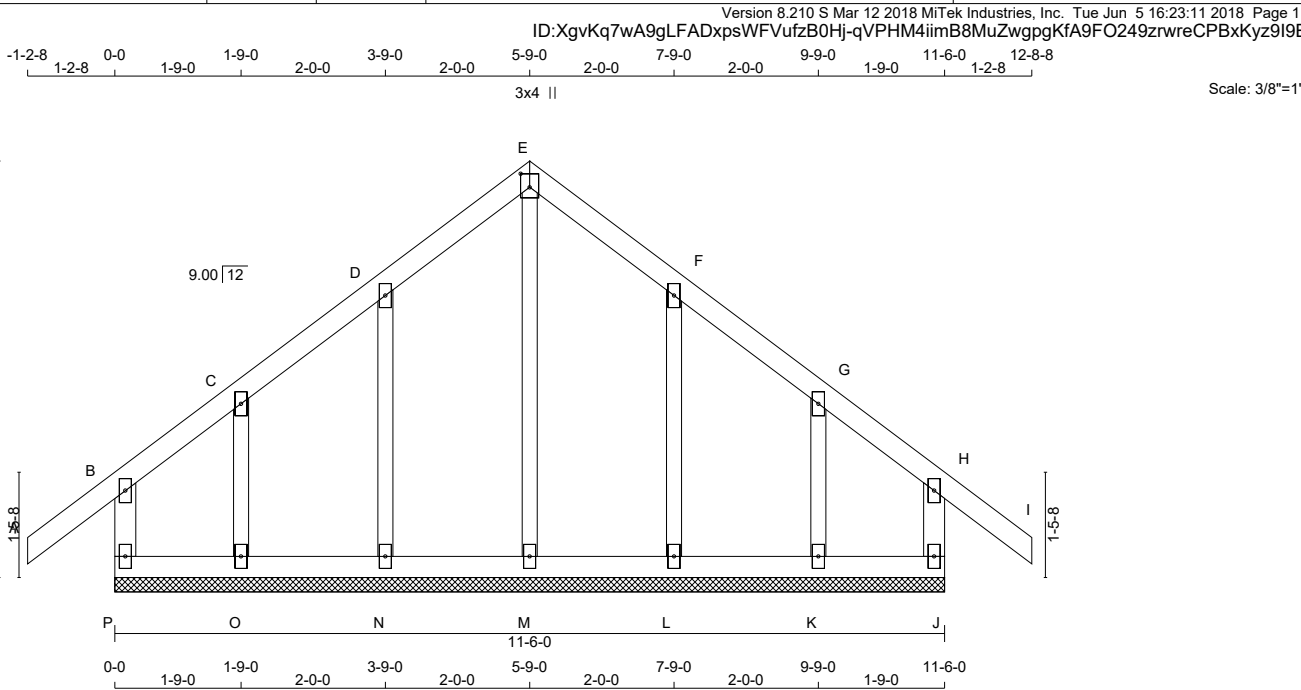
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.63 (Q) (INPUT = 0.90)
JSI METAL= 0.06 (Q) (INPUT = 1.00)

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





TOTAL WEIGHT = 50 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
P - B	2x4	DRY	No.2	SPF
A - E	2x4	DRY	No.2	SPF
E - I	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
P - J	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
B	TMV+p	MT20	2.0	4.0		
C, D, F, G						
C	TMW+w	MT20	2.0	4.0		
E	TTW+p	MT20	3.0	4.0	2.25	1.50
H	TMV+p	MT20	2.0	4.0		
J	BMV1+p	MT20	2.0	4.0		
K, L, M, N, O						
K	BMW1+w	MT20	2.0	4.0		
P	BMV1+p	MT20	2.0	4.0		

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)		
FR-TO		FROM TO			FR-TO				
P-B	-172 / 0	0.0	0.0 0.03 (1)	7.81	M-E	-187 / 0	0.09 (1)		
A-B	0 / 30	-77.4	-77.4 0.09 (1)	10.00	N-D	-165 / 0	0.05 (1)		
B-C	-2 / 6	-77.4	-77.4 0.06 (1)	10.00	O-C	-114 / 0	0.02 (1)		
C-D	0 / 26	-77.4	-77.4 0.05 (1)	10.00	L-F	-165 / 0	0.05 (1)		
D-E	0 / 24	-77.4	-77.4 0.05 (1)	10.00	K-G	-114 / 0	0.02 (1)		
E-F	0 / 24	-77.4	-77.4 0.05 (1)	10.00					
F-G	0 / 26	-77.4	-77.4 0.05 (1)	10.00					
G-H	-2 / 6	-77.4	-77.4 0.06 (1)	10.00					
H-I	0 / 30	-77.4	-77.4 0.09 (1)	10.00					
J-H	-172 / 0	0.0	0.0 0.03 (1)	7.81					
P-O	-13 / 0	-17.5	-17.5 0.01 (4)	6.25					
O-N	-17 / 0	-17.5	-17.5 0.01 (4)	6.25					
N-M	-21 / 0	-17.5	-17.5 0.01 (4)	6.25					
M-L	-21 / 0	-17.5	-17.5 0.01 (4)	6.25					
L-K	-17 / 0	-17.5	-17.5 0.01 (4)	6.25					
K-J	-13 / 0	-17.5	-17.5 0.01 (4)	6.25					

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

CSI: TC=0.09/1.00 (H-I:1) , BC=0.01/1.00 (L-M:4) , WB=0.09/1.00 (E-M:1) , SSI=0.06/1.00 (H-I: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.

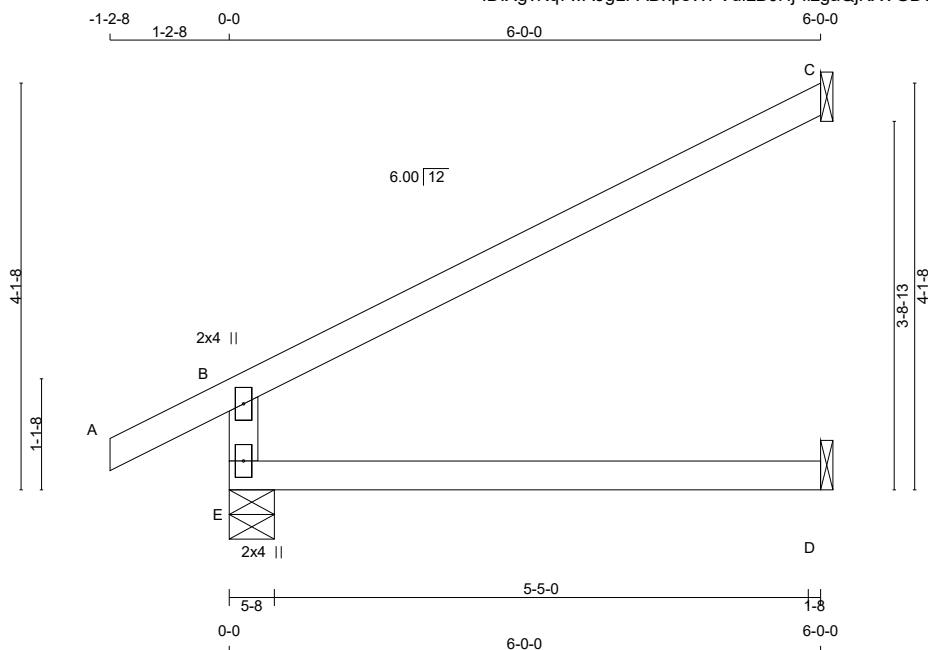
JSI GRIP= 0.13 (E) (INPUT = 0.90)
JSI METAL= 0.06 (E) (INPUT = 1.00)

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



ID: XqvKq7wA9qLFADxpsWFVufzB0Hi-lizgaQjKXVGDWiVsNNrvjNoVZUTMaOXnR3xUsOz9l9D

Scale = 1:23.4



TOTAL WEIGHT = 18 X 17 = 305 lb

CONSIDER N. L. G. A. RULES

CHORDS	SIZE	LUMBER
E - B	2x4 DRY	No.2
A - C	2x4 DRY	No.2
E - D	2x4 DRY	No.2

DRY; SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
E	BMV1+p	MT20	2.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
E	450	0	450	0	0	5-8	5-8
C	174	0	174	0	0	1-8	1-8
D	43	0	48	0	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	314	234 / 0	0 / 0	0 / 0	0 / 0	80 / 0	0 / 0
C	118	105 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0
D	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) E

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.

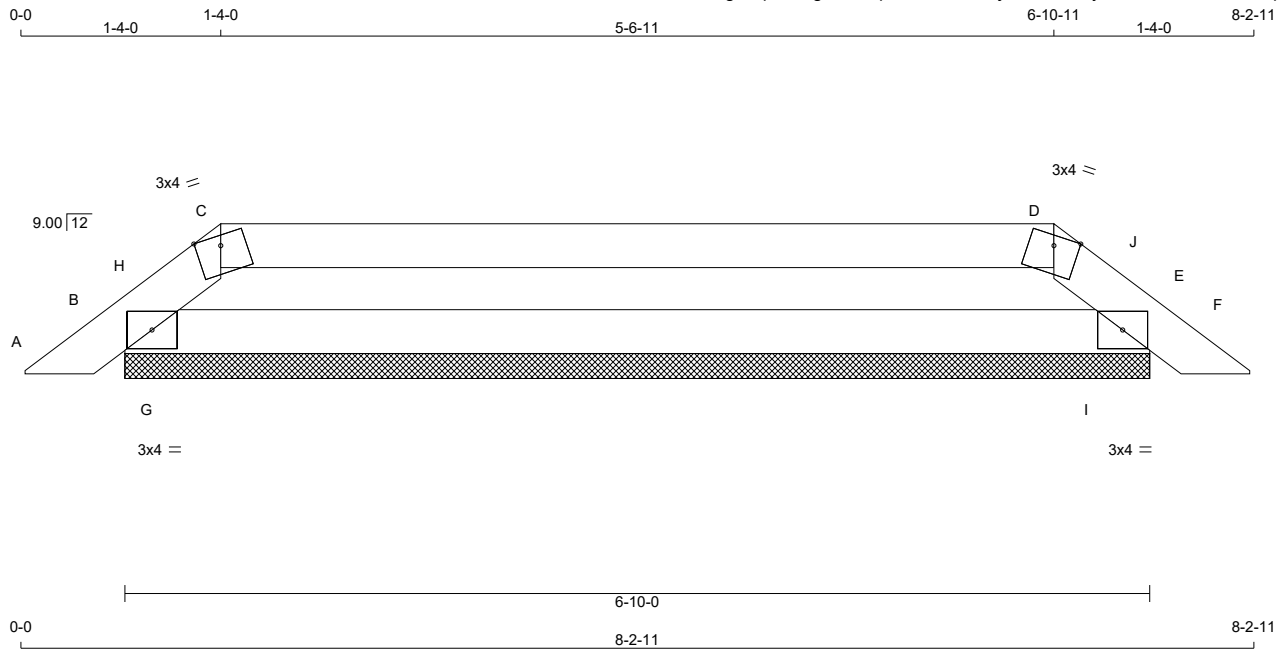
LOADING

LOADING
TOTAL LOAD CASES: (4)

C H O R D S					W E B S				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LOAD LC1	MAX. CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO		LENGTH	FR-TO			
E - B	-389 / 0	0.0	0.0	0.11 (4)	7.81				
A - B	0 / 22	-77.4	-77.4	0.09 (1)	10.00				
B - C	-26 / 0	-77.4	-77.4	0.36 (1)	6.25				
E - D	0 / 0	-17.5	-17.5	0.13 (4)	10.00				

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





Scale = 1:15.4

TOTAL WEIGHT = 2 X 18 = 36 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
B - E	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TT-m	MT20	3.0	4.0	Edge	
D	TT-m	MT20	3.0	4.0	Edge	
E	TMB1-I	MT20	3.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
B	370	0	370	0	6-10-0	6-10-0
E	370	0	370	0	6-10-0	6-10-0

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	258	187 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0
E	258	187 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0

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

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 CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		
A-B	0 / 12	-77.4	-77.4 0.02 (1)	10.00	G-H	-80 / 122	0.00 (1)
B-H	-247 / 0	-77.4	-77.4 0.06 (4)	6.25	I-J	-80 / 122	0.00 (1)
H-C	-656 / 0	-77.4	-77.4 0.23 (1)	6.25			
C-D	-657 / 0	-77.4	-77.4 0.24 (1)	6.25			
D-J	-656 / 0	-77.4	-77.4 0.23 (1)	6.25			
J-E	-247 / 0	-77.4	-77.4 0.06 (4)	6.25			
E-F	0 / 12	-77.4	-77.4 0.02 (1)	10.00			
B-G	0 / 176	-17.5	-17.5 0.06 (1)	10.00			
G-I	0 / 657	-17.5	-17.5 0.17 (4)	10.00			
I-E	0 / 176	-17.5	-17.5 0.06 (1)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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=0.24/1.00 (C-D:1), BC=0.17/1.00 (G-I:4), WB=0.00/1.00 (G-H:1), SSI=0.19/1.00 (C-H: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

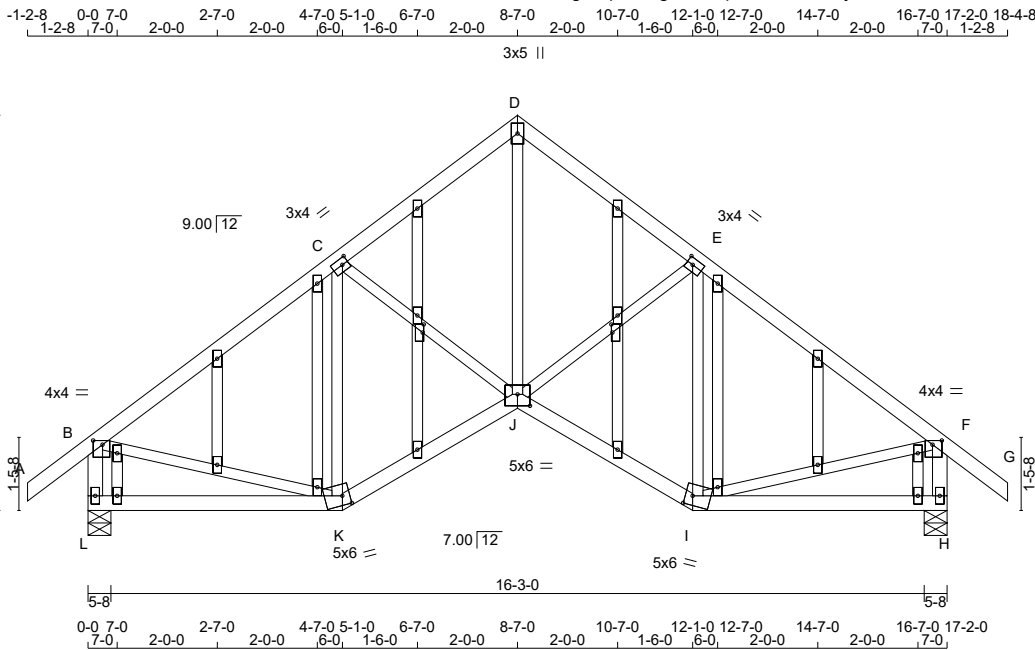
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.49 (E) (INPUT = 0.90)
JSI METAL= 0.17 (B) (INPUT = 1.00)

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



ID:XgvKq7wA9gLFADxpsWfVufzB0Hj-F44Q?6kb36Wwl1fUotNoottCH9V2GI4uNQbwHz9I9B



Scale = 1:46.0

TOTAL WEIGHT = 98 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
L - B	2x4	DRY	No.2
H - F	2x4	DRY	No.2
L - K	2x4	DRY	No.2
K - J	2x4	DRY	No.2
J - I	2x4	DRY	No.2
I - H	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
ALL GABLE WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			
GABLE STUDS SPACED AT 2'-0" OC.			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-p	MT20	4.0	4.0	1.00 2.25
C	TMWW-t	MT20	3.0	4.0	1.50 1.50
D	TTW+p	MT20	3.0	5.0	
E	TMWW-t	MT20	3.0	4.0	1.50 1.50
F	TMVW-p	MT20	4.0	4.0	1.00 2.25
H	BMV1+p	MT20	2.0	4.0	
H, I, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z					
H	NP+w	MT20	2.0	4.0	
I	BBWW-m	MT20	5.0	6.0	2.25 1.75
J	BBWW-p	MT20	5.0	6.0	2.75 3.00
K	BBWW-m	MT20	5.0	6.0	2.25 1.75
L	BMV1+p	MT20	2.0	4.0	
M	NP+w	MT20	2.0	4.0	2.00 0.25
V	NP+w	MT20	2.0	4.0	2.00 0.25

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
L	914	0	914	0	0
H	914	0	914	0	0

UNFACTORED REACTIONS		1ST LCASE	MAX./MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE PERM.LIVE WIND DEAD SOIL
L	640	460 / 0	0 / 0 0 / 0 0 / 0 179 / 0 0 / 0
H	640	460 / 0	0 / 0 0 / 0 0 / 0 179 / 0 0 / 0

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

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. VERT. LOAD LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. VERT. LOAD LC1 (LC)	UNBRACED LENGTH
FR-TO		FROM	TO	FR-TO			
A-B	0 / 30	-77.4	-77.4 0.09 (1)	10.00	J-D	0 / 775	0.17 (1)
B-C	-769 / 0	-77.4	-77.4 0.23 (1)	6.25	J-E	0 / 15	0.00 (4)
C-D	-824 / 0	-77.4	-77.4 0.20 (1)	6.25	I-E	-430 / 0	0.17 (1)
D-E	-824 / 0	-77.4	-77.4 0.20 (1)	6.25	C-J	0 / 15	0.00 (4)
E-F	-769 / 0	-77.4	-77.4 0.23 (1)	6.25	K-C	-430 / 0	0.17 (1)
F-G	0 / 30	-77.4	-77.4 0.09 (1)	10.00	B-K	0 / 648	0.15 (1)
L-B	-870 / 0	0.0	0.0 0.09 (1)	7.81	I-F	0 / 648	0.15 (1)
H-F	-870 / 0	0.0	0.0 0.09 (1)	7.81			
L-K	0 / 0	-17.5	-17.5 0.13 (4)	10.00			
K-J	0 / 723	-17.5	-17.5 0.15 (1)	10.00			
J-I	0 / 723	-17.5	-17.5 0.15 (1)	10.00			
I-H	0 / 0	-17.5	-17.5 0.13 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.57")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.57")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.23/1.00 (B-C:1), BC=0.15/1.00 (I-J:1), WB=0.17/1.00 (D-J:1), SSI=0.14/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

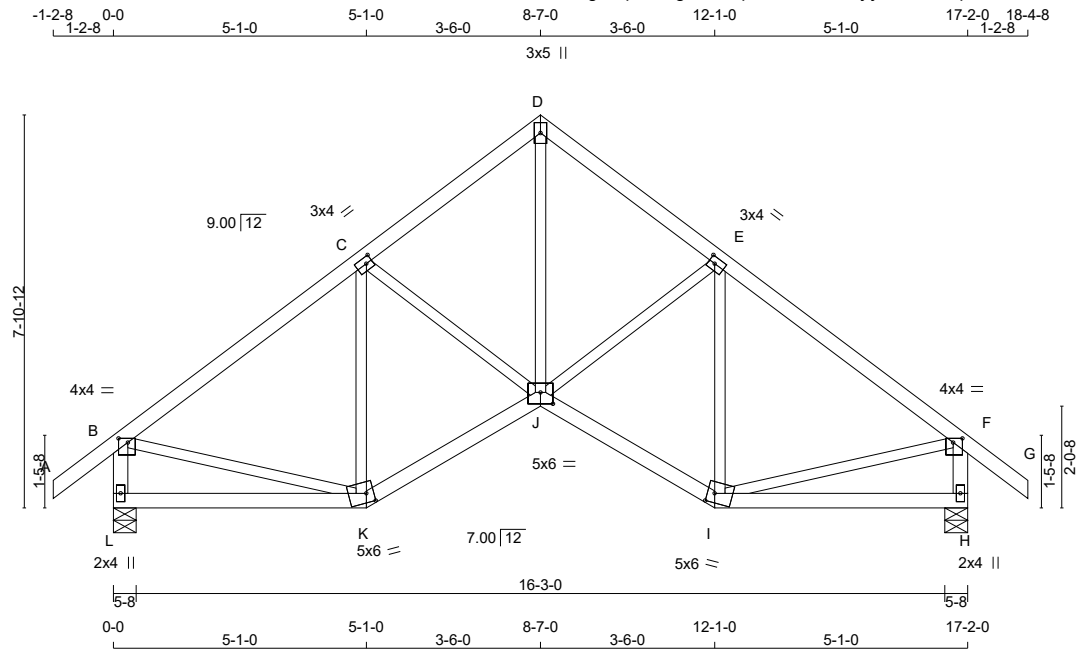
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (E) (INPUT = 0.90)
JSI METAL= 0.24 (F) (INPUT = 1.00)

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



Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Jun 5 16:23:15 2018 Page 1
ID:XgvKq7wA9gLFADxpsWFVufzB0Hj-jHeoCRIDqQenNBER2WOcL?Q2yhUknjYE7198Tjz9I9A



Scale = 1:46.3

TOTAL WEIGHT = 78 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
L - B	2x4	DRY	No.2
H - F	2x4	DRY	No.2
L - K	2x4	DRY	No.2
K - J	2x4	DRY	No.2
J - I	2x4	DRY	No.2
I - H	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
B	TMVW-p	MT20	4.0	4.0	1.00	2.25
C	TMWW-t	MT20	3.0	4.0	1.50	1.50
D	TTW+p	MT20	3.0	5.0		
E	TMWW-t	MT20	3.0	4.0	1.50	1.50
F	TMVW-p	MT20	4.0	4.0	1.00	2.25
H	BMV1+p	MT20	2.0	4.0		
I	BBWW-m	MT20	5.0	6.0	2.25	1.75
J	BBWW-p	MT20	5.0	6.0	2.75	3.00
K	BBWW-m	MT20	5.0	6.0	2.25	1.75
L	BMV1+p	MT20	2.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
L	914	0	914	0	0	5-8	5-8	
H	914	0	914	0	0	5-8	5-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM.LIVE				
L	640	460 / 0	0 / 0	0 / 0	0 / 0	179 / 0	0 / 0
H	640	460 / 0	0 / 0	0 / 0	0 / 0	179 / 0	0 / 0

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

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			
A-B	0 / 30	-77.4 -77.4	0.09 (1)	10.00	J-D	0 / 775	0.17 (1)
B-C	-769 / 0	-77.4 -77.4	0.23 (1)	6.25	J-E	0 / 15	0.00 (4)
C-D	-824 / 0	-77.4 -77.4	0.20 (1)	6.25	I-E	-430 / 0	0.17 (1)
D-E	-824 / 0	-77.4 -77.4	0.20 (1)	6.25	C-J	0 / 15	0.00 (4)
E-F	-769 / 0	-77.4 -77.4	0.23 (1)	6.25	K-C	-430 / 0	0.17 (1)
F-G	0 / 30	-77.4 -77.4	0.09 (1)	10.00	B-K	0 / 648	0.15 (1)
L-B	-870 / 0	0.0 0.0	0.09 (1)	7.81	I-F	0 / 648	0.15 (1)
H-F	-870 / 0	0.0 0.0	0.09 (1)	7.81			
L-K	0 / 0	-17.5 -17.5	0.13 (4)	10.00			
K-J	0 / 723	-17.5 -17.5	0.15 (1)	10.00			
J-I	0 / 723	-17.5 -17.5	0.15 (1)	10.00			
I-H	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 (0.57")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.57")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.23/1.00 (B-C:1), BC=0.15/1.00 (I-J:1), WB=0.17/1.00 (D-J:1), SSI=0.14/1.00 (B-C: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

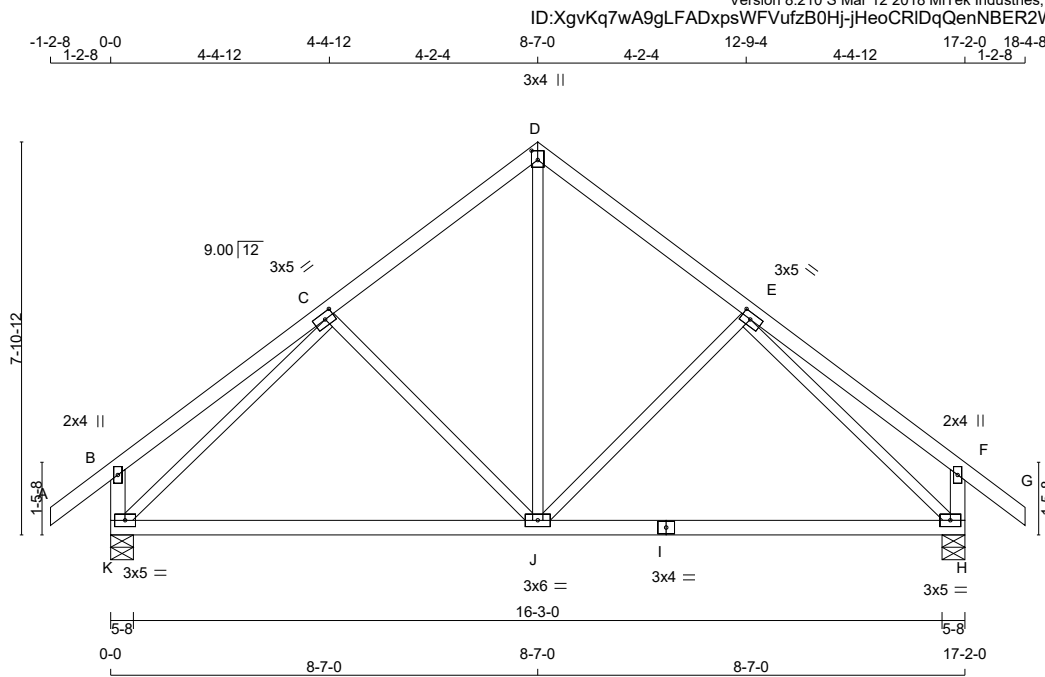
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (E) (INPUT = 0.90)
JSI METAL= 0.24 (F) (INPUT = 1.00)

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





TOTAL WEIGHT = 5 X 75 = 375 lb
[M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - G	2x4	DRY	No.2	SPF
K - B	2x4	DRY	No.2	SPF
H - F	2x4	DRY	No.2	SPF
K - I	2x4	DRY	No.2	SPF
I - H	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
B	TMV+p	MT20	2.0	4.0		
C	TMWW-t	MT20	3.0	5.0	1.50	2.25
D	TTW+p	MT20	3.0	4.0	2.25	1.50
E	TMWW-t	MT20	3.0	5.0	1.50	2.25
F	TMV+p	MT20	2.0	4.0		
H	BMVW1-t	MT20	3.0	5.0		
I	BS-t	MT20	3.0	4.0		
J	BMVW1-t	MT20	3.0	6.0		
K	BMVW1-t	MT20	3.0	5.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
K	914	0	914	0	5-8	5-8
H	914	0	914	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
K	640	460 / 0	0 / 0	0 / 0	0 / 0	179 / 0	0 / 0
H	640	460 / 0	0 / 0	0 / 0	0 / 0	179 / 0	0 / 0

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

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)

FR-TO	CHORDS				MAX. UNBRACED LENGTH	FR-TO	WEBS		
	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)			MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
A-B	0 / 30	-77.4	-77.4	0.09 (1)	10.00	J-D	0 / 467	0.11 (1)	
B-C	0 / 23	-77.4	-77.4	0.23 (1)	10.00	J-E	-198 / 0	0.13 (1)	
C-D	-626 / 0	-77.4	-77.4	0.18 (1)	6.25	C-J	-198 / 0	0.13 (1)	
D-E	-626 / 0	-77.4	-77.4	0.18 (1)	6.25	K-C	-886 / 0	0.56 (1)	
E-F	0 / 23	-77.4	-77.4	0.23 (1)	10.00	E-H	-886 / 0	0.56 (1)	
F-G	0 / 30	-77.4	-77.4	0.09 (1)	10.00				
K-B	-227 / 0	0.0	0.0	0.02 (1)	7.81				
H-F	-227 / 0	0.0	0.0	0.02 (1)	7.81				
K-J	0 / 622	-17.5	-17.5	0.41 (4)	10.00				
J-I	0 / 622	-17.5	-17.5	0.41 (4)	10.00				
I-H	0 / 622	-17.5	-17.5	0.41 (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 (0.57")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.57")
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TC=0.23/1.00 (B-C:1), BC=0.41/1.00 (H-J:4), WB=0.56/1.00 (C-K:1), SSI=0.13/1.00 (C-D: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

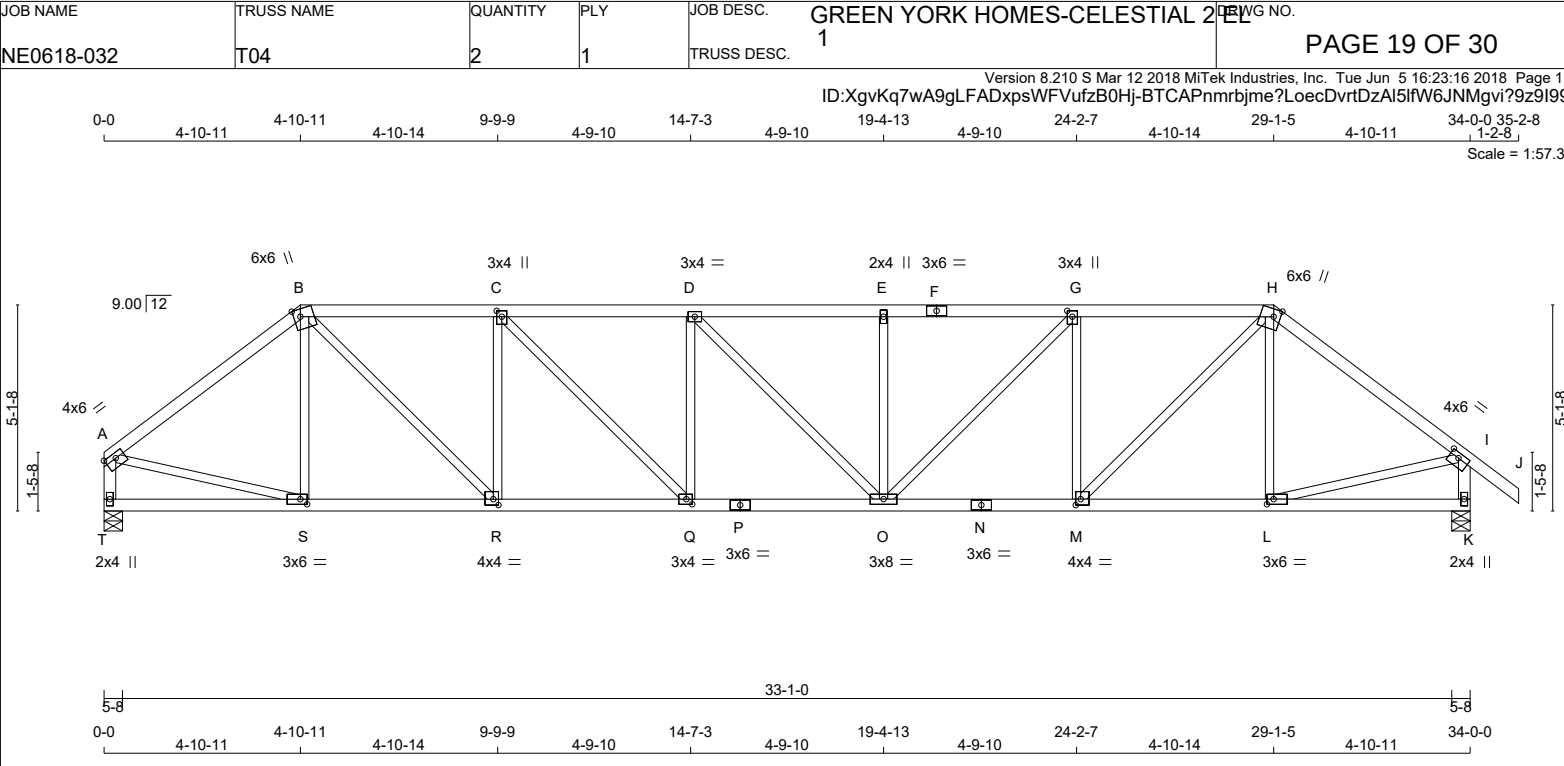
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (E) (INPUT = 0.90)
JSI METAL= 0.25 (C) (INPUT = 1.00)

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

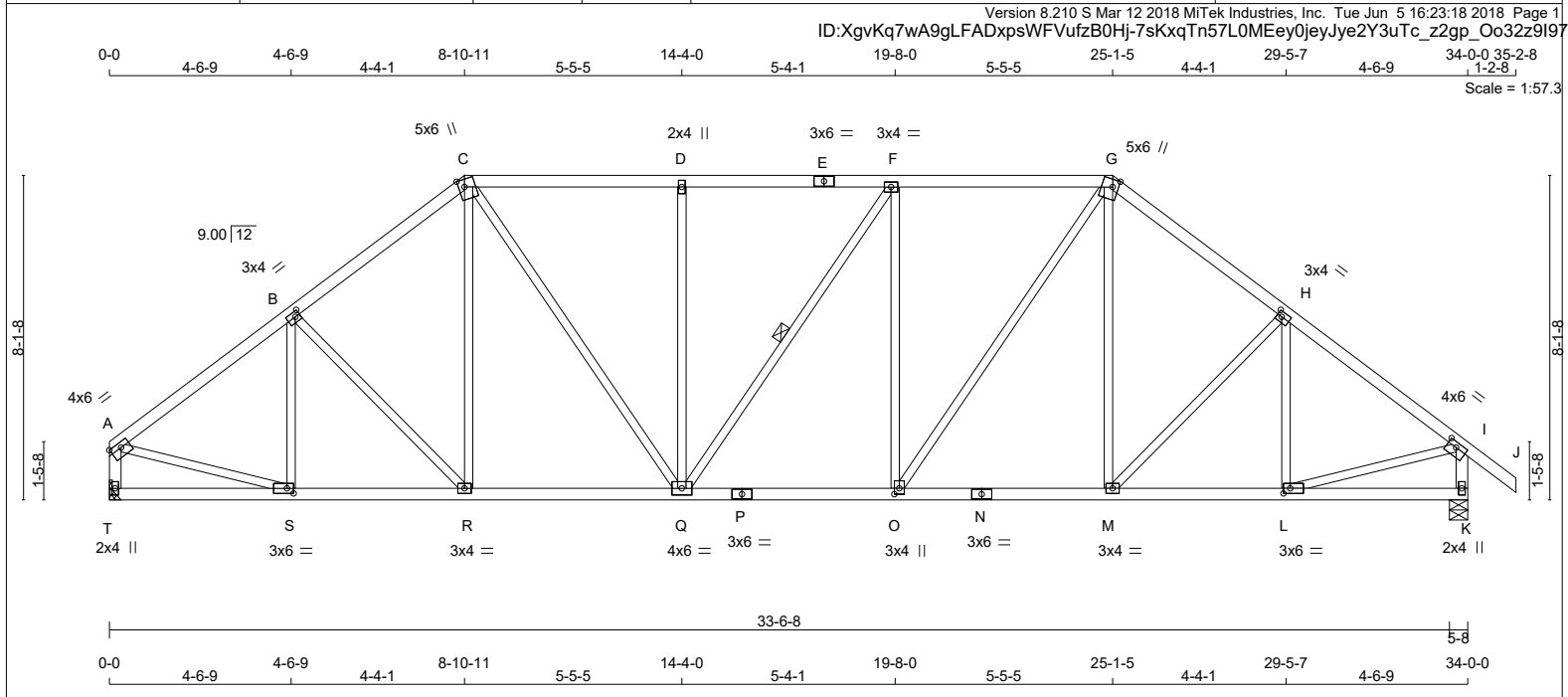




LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA				
A - B 2x4 DRY No.2 SPF B - F 2x4 DRY No.2 SPF F - H 2x4 DRY No.2 SPF H - J 2x4 DRY No.2 SPF T - A 2x4 DRY No.2 SPF K - I 2x4 DRY No.2 SPF T - P 2x4 DRY No.2 SPF P - N 2x4 DRY No.2 SPF N - K 2x4 DRY No.2 SPF					BEARINGS FACTORED GROSS REACTION JT VERT HORZ T 1613 0 1613 0 0 0 K 1713 0 1713 0 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 SPF EXCEPT					UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL T 1132 792 / 0 0 / 0 0 / 0 0 / 0 340 / 0 0 / 0 K 1200 852 / 0 0 / 0 0 / 0 0 / 0 348 / 0 0 / 0										SPACING = 24.0 IN. C/C				
DRY: SEASONED LUMBER.					BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) T, K										LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM				
BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.81 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.					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				
PLATES (table is in inches) JT TYPE PLATES W LEN Y X A TMVW-t MT20 4.0 6.0 1.50 Edge B TTVW+m MT20 6.0 6.0 Edge 2.00 C TMVW+t MT20 3.0 4.0 1.75 1.50 D TMVW-t MT20 3.0 4.0 E TMW+w MT20 2.0 4.0 F TS-t MT20 3.0 6.0 G TMVW+t MT20 3.0 4.0 1.75 1.50 H TTVW+m MT20 6.0 6.0 Edge 2.00 I TMVW-t MT20 4.0 6.0 1.50 2.75 K BMV1+p MT20 2.0 4.0 L BMVW-t MT20 3.0 6.0 1.50 2.00 M BMVW-t MT20 4.0 4.0 1.75 1.50 N BS-t MT20 3.0 6.0 O BMVWW-t MT20 3.0 8.0 P BS-t MT20 3.0 6.0 Q BMVW-t MT20 3.0 4.0 1.50 1.75 R BMVW-t MT20 4.0 4.0 1.75 1.50 S BMVW-t MT20 3.0 6.0 1.50 2.00 T BMV1+p MT20 2.0 4.0					ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.										(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				
LOADING TOTAL LOAD CASES: (4)					CHORDS MEMB. MAX. FACTORED FORCE (LBS) VERT. LOAD LC1 MAX (PLF) FACTORED GROSS REACTION (LC) UNBRACED LENGTH FR-TO A-B -1774 / 0 -77.4 -77.4 0.42 (1) 4.58 S-B -222 / 13 0.09 (1) B-C -2368 / 0 -77.4 -77.4 0.36 (1) 4.13 B-R 0 / 1340 0.30 (1) C-D -2811 / 0 -77.4 -77.4 0.40 (1) 3.81 R-C -859 / 0 0.33 (1) D-E -2810 / 0 -77.4 -77.4 0.32 (1) 3.90 C-Q 0 / 628 0.14 (1) E-F -2810 / 0 -77.4 -77.4 0.40 (1) 3.81 Q-D -361 / 0 0.14 (1) F-G -2810 / 0 -77.4 -77.4 0.40 (1) 3.81 D-O -2 / 0 0.00 (1) G-H -2368 / 0 -77.4 -77.4 0.36 (1) 4.13 O-E -360 / 0 0.14 (1) H-I -1774 / 0 -77.4 -77.4 0.42 (1) 4.58 O-G 0 / 626 0.14 (1) I-J 0 / 30 -77.4 -77.4 0.09 (1) 10.00 M-G -859 / 0 0.33 (1) T-A -1577 / 0 0.0 0.0 0.16 (1) 6.57 M-H 0 / 1341 0.30 (1) K-I -1678 / 0 0.0 0.0 0.17 (1) 6.41 L-H -222 / 13 0.09 (1) A-S 0 / 1452 0.33 (1) L-I 0 / 1452 0.33 (1)										ALLOWABLE DEFL.(LL)= L/360 (1.13") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.16") ALLOWABLE DEFL.(TL)= L/360 (1.13") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.29") CSI: TC=0.42/1.00 (A-B:1), BC=0.49/1.00 (O-Q:1), WB=0.33/1.00 (C-R:1), SSI=0.18/1.00 (G-H: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				
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.					TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .										NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656				
READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.					PLATE PLACEMENT TOL. = 0.250 inches										PLATE ROTATION TOL. = 5.0 Deg.				
					JSI GRIP= 0.90 (Q) (INPUT = 0.90) JSI METAL= 0.73 (P) (INPUT = 1.00)														
LICENSED PROFESSIONAL ENGINEER N.A. EL-MASRI PROVINCIAL REGISTER OF ONTARIO Jun 05, 2018					CONTINUED ON PAGE 2										KOTT				

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





LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
E - G	2x4	DRY	No.2	SPF
G - J	2x4	DRY	No.2	SPF
T - A	2x4	DRY	No.2	SPF
K - I	2x4	DRY	No.2	SPF
T - P	2x4	DRY	No.2	SPF
P - N	2x4	DRY	No.2	SPF
N - K	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
A	TMVW-t	MT20	4.0	6.0	1.50	Edge
B	TMWW-t	MT20	3.0	4.0	1.50	1.50
C	TTWW+m	MT20	5.0	6.0	2.25	1.75
D	TMW+w	MT20	2.0	4.0		
E	TS-t	MT20	3.0	6.0		
F	TMWW-t	MT20	3.0	4.0		
G	TTWW+m	MT20	5.0	6.0	2.25	1.75
H	TMWW-t	MT20	3.0	4.0	1.50	1.50
I	TMVW-t	MT20	4.0	6.0	1.50	2.75
K	BMV1+p	MT20	2.0	4.0		
L	BMWW-t	MT20	3.0	6.0	1.50	2.00
M	BMWW-t	MT20	3.0	4.0		
N	BS-t	MT20	3.0	6.0		
O	BMWW+t	MT20	3.0	4.0	1.75	1.50
P	BS-t	MT20	3.0	6.0		
Q	BMWWWW-t	MT20	4.0	6.0		
R	BMWW-t	MT20	3.0	4.0		
S	BMWW-t	MT20	3.0	6.0	1.50	2.00
T	BMV1+p	MT20	2.0	4.0		

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

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

LICENSED PROFESSIONAL ENGINEER

N.A. EL-MASRI

PROVINCIAL SEAL

Jun 05, 2018

Signature

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	DOWN	MECHANICAL	MECHANICAL
T 1613	0	0	0
K 1713	0	0	0

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS	DEAD	SOIL
JT COMBINED	SNOW	LIVE	PERM.LIVE
T 1132	792 / 0	0 / 0	0 / 0
K 1200	852 / 0	0 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.77 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.

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF F-Q. DBS = 20-0-0 . CBF = 0 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	-1780 / 0	-77.4 -77.4	0.24 (1)	4.80	S-B	-279 / 0	0.10 (1)
B-C	-1725 / 0	-77.4 -77.4	0.23 (1)	4.86	B-R	-121 / 0	0.09 (1)
C-D	-1738 / 0	-77.4 -77.4	0.30 (1)	4.77	R-C	0 / 177	0.04 (4)
D-E	-1738 / 0	-77.4 -77.4	0.28 (1)	4.80	C-Q	0 / 662	0.15 (1)
E-F	-1738 / 0	-77.4 -77.4	0.28 (1)	4.80	Q-D	-450 / 0	0.57 (1)
F-G	-1740 / 0	-77.4 -77.4	0.30 (1)	4.77	Q-F	-2 / 0	0.00 (1)
G-H	-1725 / 0	-77.4 -77.4	0.23 (1)	4.86	O-F	-450 / 0	0.57 (1)
H-I	-1780 / 0	-77.4 -77.4	0.24 (1)	4.80	O-G	0 / 665	0.15 (1)
I-J	0 / 30	-77.4 -77.4	0.09 (1)	10.00	M-G	0 / 175	0.04 (4)
T-A	-1577 / 0	0.0 0.0	0.16 (1)	6.57	M-H	-121 / 0	0.09 (1)
K-I	-1677 / 0	0.0 0.0	0.17 (1)	6.41	L-H	-279 / 0	0.10 (1)
					A-S	0 / 1486	0.33 (1)
					L-I	0 / 1486	0.33 (1)
T-S	0 / 0	-17.5 -17.5	0.07 (4)	10.00			
S-R	0 / 1442	-17.5 -17.5	0.28 (1)	10.00			
R-Q	0 / 1360	-17.5 -17.5	0.27 (1)	10.00			
Q-P	0 / 1740	-17.5 -17.5	0.33 (1)	10.00			
P-O	0 / 1740	-17.5 -17.5	0.33 (1)	10.00			
O-N	0 / 1360	-17.5 -17.5	0.27 (1)	10.00			
N-M	0 / 1360	-17.5 -17.5	0.27 (1)	10.00			
M-L	0 / 1443	-17.5 -17.5	0.28 (1)	10.00			
L-K	0 / 0	-17.5 -17.5	0.07 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

- CSA 086-09

- TPIC 2011

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

ALLOWABLE DEFL.(LL)= L/360 (1.13")

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

ALLOWABLE DEFL.(TL)= L/360 (1.13")

CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CSI: TC=0.30/1.00 (F-G:1), BC=0.33/1.00 (O-Q:1), WB=0.57/1.00 (F-O:1), SSI=0.20/1.00 (F-G: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)
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (K) (INPUT = 0.90)

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

CONTINUED ON PAGE 2

KOTT

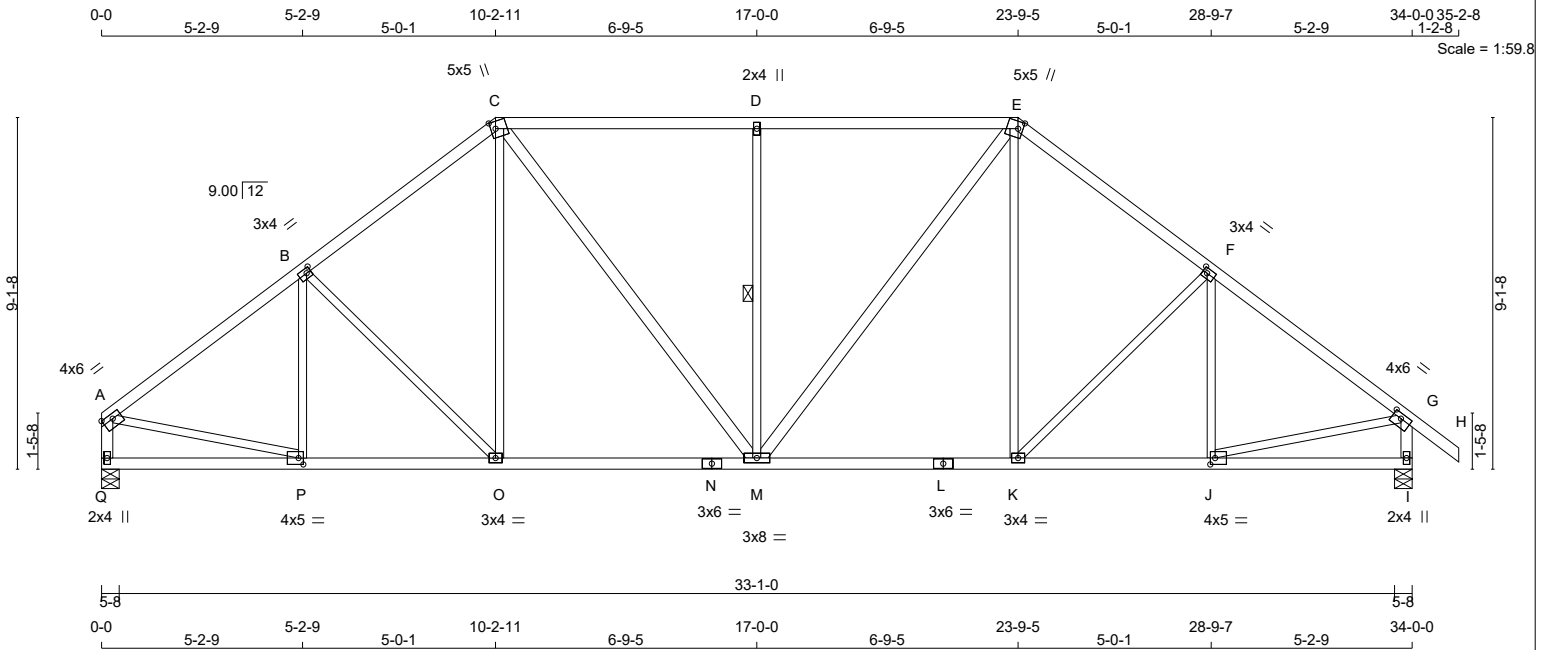
READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



CONTINUED ON PAGE 2



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TOTAL WEIGHT = 2 X 160 = 320 lb
[M][F]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
E - H	2x4	DRY	No.2	SPF
Q - A	2x4	DRY	No.2	SPF
I - G	2x4	DRY	No.2	SPF
Q - N	2x4	DRY	No.2	SPF
N - L	2x4	DRY	No.2	SPF
L - I	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
C - M	2x4	DRY	No.2	SPF
M - E	2x4	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMVW-t	MT20	4.0	6.0	1.50 1.50
B	TMWW-t	MT20	3.0	4.0	1.50 1.50
C	TTWW+m	MT20	5.0	5.0	2.25 1.50
D	TMW+w	MT20	2.0	4.0	
E	TTWW+m	MT20	5.0	5.0	2.25 1.50
F	TMWW-t	MT20	3.0	4.0	1.50 1.50
G	TMVW-t	MT20	4.0	6.0	1.50 2.75
I	BMV1+p	MT20	2.0	4.0	
J	BMWW-t	MT20	4.0	5.0	2.00 1.50
K	BMWW-t	MT20	3.0	4.0	
L	BS-t	MT20	3.0	6.0	
M	BMWW-t	MT20	3.0	8.0	
N	BS-t	MT20	3.0	6.0	
O	BMWW-t	MT20	3.0	4.0	
P	BMWW-t	MT20	4.0	5.0	2.00 1.50
Q	BMV1+p	MT20	2.0	4.0	

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

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

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
Q	1613	0	1613	0	0	5-8	5-8
I	1713	0	1713	0	0	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	1132	792 / 0	0 / 0	0 / 0	0 / 0	340 / 0	0 / 0
I	1200	852 / 0	0 / 0	0 / 0	0 / 0	348 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.61 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF D-M. DBS = 20-0-0 . CBF = 80 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	-1805 / 0	-77.4 -77.4	0.32 (1)	P-B	-225 / 15	0.10 (1)	
B-C	-1671 / 0	-77.4 -77.4	0.30 (1)	B-O	-218 / 0	0.22 (1)	
C-D	-1608 / 0	-77.4 -77.4	0.51 (1)	O-C	0 / 257	0.06 (1)	
D-E	-1608 / 0	-77.4 -77.4	0.51 (1)	C-M	0 / 483	0.08 (1)	
E-F	-1671 / 0	-77.4 -77.4	0.30 (1)	M-D	-644 / 0	0.35 (1)	
F-G	-1805 / 0	-77.4 -77.4	0.32 (1)	M-E	0 / 483	0.08 (1)	
G-H	0 / 30	-77.4 -77.4	0.09 (1)	K-E	0 / 257	0.06 (1)	
Q-A	-1573 / 0	0.0 0.0	0.16 (1)	K-F	-218 / 0	0.22 (1)	
I-G	-1673 / 0	0.0 0.0	0.17 (1)	J-F	-225 / 15	0.10 (1)	
				A-P	0 / 1500	0.34 (1)	
				J-G	0 / 1500	0.34 (1)	
Q-P	0 / 0	-17.5 -17.5	0.10 (4)				
P-O	0 / 1466	-17.5 -17.5	0.30 (1)				
O-N	0 / 1314	-17.5 -17.5	0.30 (1)				
N-M	0 / 1314	-17.5 -17.5	0.30 (1)				
M-L	0 / 1314	-17.5 -17.5	0.30 (1)				
L-K	0 / 1314	-17.5 -17.5	0.30 (1)				
K-J	0 / 1466	-17.5 -17.5	0.30 (1)				
J-I	0 / 0	-17.5 -17.5	0.10 (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 2.00/12 MINIMUM

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

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

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

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

CSI: TC=0.51/1.00 (C-D:1), BC=0.30/1.00 (J-K:1), WB=0.35/1.00 (D-M:1), SSI=0.25/1.00 (C-D: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 .

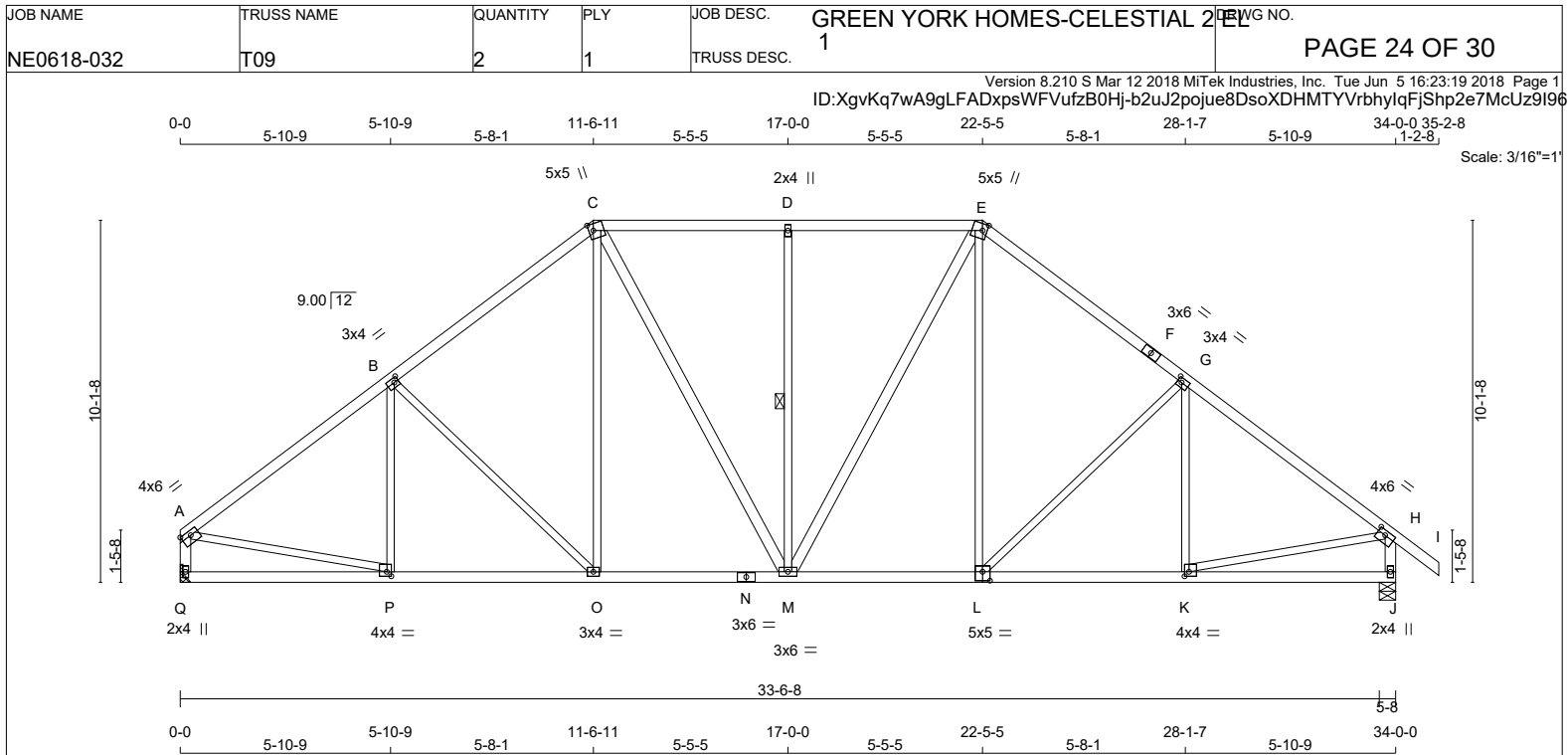
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (P) (INPUT = 0.90)
JSI METAL= 0.50 (A) (INPUT = 1.00)





LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
C - E	2x4	DRY No.2	SPF
E - F	2x4	DRY No.2	SPF
F - I	2x4	DRY No.2	SPF
Q - A	2x4	DRY No.2	SPF
J - H	2x4	DRY No.2	SPF
Q - N	2x4	DRY No.2	SPF
N - L	2x4	DRY No.2	SPF
L - J	2x4	DRY No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF

EXCEPT

C - M	2x4	DRY No.2	SPF
M - E	2x4	DRY No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	4.0	6.0	1.50	Edge
B	TMWW-t	MT20	3.0	4.0	1.50	1.50
C	TTWW+m	MT20	5.0	5.0	2.25	1.50
D	TMW+w	MT20	2.0	4.0		
E	TTWW+m	MT20	5.0	5.0	2.25	1.50
F	TS-t	MT20	3.0	6.0		
G	TMWW-t	MT20	3.0	4.0	1.50	1.50
H	TMVW-t	MT20	4.0	6.0	1.50	2.75
J	BMV1+p	MT20	2.0	4.0		
K	BMWW-t	MT20	4.0	4.0	1.50	1.50
L	BSWW-t	MT20	5.0	5.0	3.00	2.50
M	BMWWW-t	MT20	3.0	6.0		
N	BS-t	MT20	3.0	6.0		
O	BMWW-t	MT20	3.0	4.0		
P	BMWW-t	MT20	4.0	4.0	1.50	1.50
Q	BMV1+p	MT20	2.0	4.0		

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

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



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	DOWN	IN-SX	IN-SX
Q 1613	0	MECHANICAL	
J 1713	0	5-8	5-8

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM.LIVE WIND DEAD SOIL
Q 1132	792 / 0 0 / 0 0 / 0 340 / 0 0 / 0
J 1200	852 / 0 0 / 0 0 / 0 348 / 0 0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.57 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF D-M. DBS = 20-0-0 . CBF = 64 LBS.

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	-1819 / 0	-77.4 -77.4	0.42 (1)	P-B	-172 / 46	0.09 (1)	
B-C	-1604 / 0	-77.4 -77.4	0.39 (1)	B-O	-313 / 0	0.42 (1)	
C-D	-1426 / 0	-77.4 -77.4	0.32 (1)	O-C	0 / 313	0.07 (1)	
D-E	-1426 / 0	-77.4 -77.4	0.32 (1)	C-M	0 / 346	0.06 (1)	
E-F	-1604 / 0	-77.4 -77.4	0.39 (1)	M-D	-513 / 0	0.36 (1)	
F-G	-1604 / 0	-77.4 -77.4	0.39 (1)	M-E	0 / 346	0.06 (1)	
G-H	-1819 / 0	-77.4 -77.4	0.42 (1)	L-E	0 / 313	0.07 (1)	
H-I	0 / 30	-77.4 -77.4	0.09 (1)	L-G	-314 / 0	0.42 (1)	
Q-A	-1570 / 0	0.0 0.0	0.16 (1)	K-G	-173 / 46	0.09 (1)	
J-H	-1670 / 0	0.0 0.0	0.17 (1)	A-P	0 / 1508	0.34 (1)	
				K-H	0 / 1508	0.34 (1)	
Q-P	0 / 0	-17.5 -17.5	0.14 (4)				
P-O	0 / 1481	-17.5 -17.5	0.31 (1)				
O-N	0 / 1258	-17.5 -17.5	0.26 (1)				
N-M	0 / 1258	-17.5 -17.5	0.26 (1)				
M-L	0 / 1258	-17.5 -17.5	0.26 (1)				
L-K	0 / 1481	-17.5 -17.5	0.31 (1)				
K-J	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

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.13")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (1.13")
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.42/1.00 (G-H:1), BC=0.31/1.00 (O-P:1), WB=0.42/1.00 (G-L:1), SSI=0.20/1.00 (C-D: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

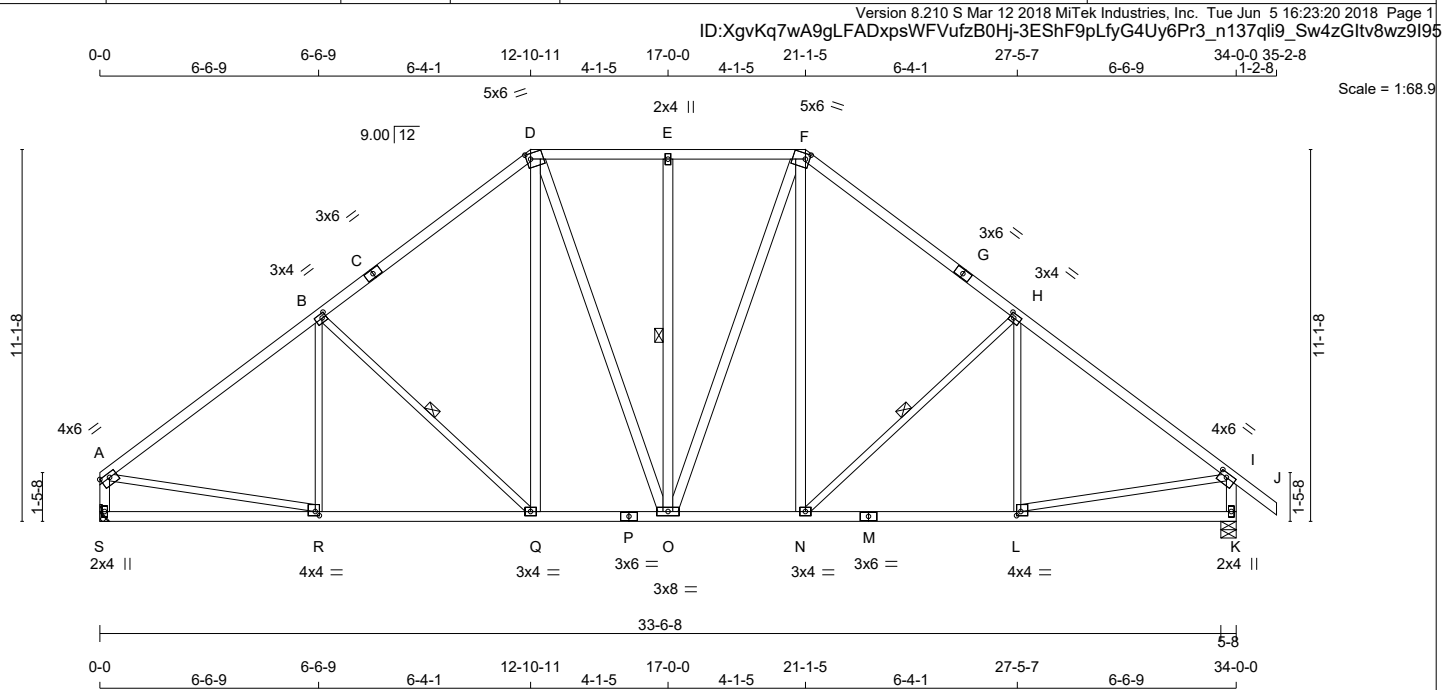
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (K) (INPUT = 0.90)
JSI METAL= 0.55 (K) (INPUT = 1.00)

CONTINUED ON PAGE 2





TOTAL WEIGHT = 4 X 184 = 738 lb

LUMBER				
N. L. G. A. RULES				
CHORDS		SIZE	LUMBER	DESCR
A - C	2x4	DRY	No.2	SPF
C - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
F - G	2x4	DRY	No.2	SPF
G - J	2x4	DRY	No.2	SPF
S - A	2x4	DRY	No.2	SPF
K - I	2x4	DRY	No.2	SPF
S - P	2x4	DRY	No.2	SPF
P - M	2x4	DRY	No.2	SPF
M - K	2x4	DRY	No.2	SPF

ALL WEBS EXCEPT	2x4	DRY	No.2	SPF
R - B	2x3	DRY	No.2	SPF
B - Q	2x3	DRY	No.2	SPF
N - H	2x3	DRY	No.2	SPF
L - H	2x3	DRY	No.2	SPF
A - R	2x3	DRY	No.2	SPF
L - I	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMVW-t	MT20	4.0	6.0	1.50 Edge
B	BMVW-t	MT20	3.0	4.0	1.50 1.50
C	TS-t	MT20	3.0	6.0	
D	TTWV-m	MT20	5.0	6.0	2.00 1.50
E	TMVW-w	MT20	2.0	4.0	
F	TTWV-m	MT20	5.0	6.0	2.00 1.50
G	TS-t	MT20	3.0	6.0	
H	TMVW-t	MT20	3.0	4.0	1.50 1.50
I	TMVW-t	MT20	4.0	6.0	1.50 2.75
K	BMV1+p	MT20	2.0	4.0	
L	BMVW-t	MT20	4.0	4.0	1.50 1.50
M	BS-t	MT20	3.0	6.0	
N	BMVW-t	MT20	3.0	4.0	
O	BMVWVW-t	MT20	3.0	8.0	
P	BS-t	MT20	3.0	6.0	
Q	BMVW-t	MT20	3.0	4.0	
R	BMVW-t	MT20	4.0	4.0	1.50 1.50
S	BMV1+p	MT20	2.0	4.0	

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



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

BUILDING BEARINGS

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
S	1643	0	1643	0	0	MECHANICAL	
K	1744	0	1744	0	0	5-8	5-8

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
S	1156	792 / 0	0 / 0	0 / 0	0 / 0	365 / 0	0 / 0
K	1225	852 / 0	0 / 0	0 / 0	0 / 0	372 / 0	0 / 0

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

BRACING

FOR SECTION D-F, MAX. PURLIN SPACING = 2.00 FT.
FOR OTHER SECTIONS, 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 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF B-Q, E-O, H-N. DBS = 20-0-0 . CBF = 52 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE (PER BRACE). FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEB S				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)		
FR-TO		FROM TO			FR-TO				
A-B	-1865 / 0	-77.4	-77.4 0.54 (1)	4.37	R-B	-134 / 65	0.09 (1)		
B-C	-1576 / 0	-77.4	-77.4 0.49 (1)	4.72	B-Q	-398 / 0	0.21 (1)		
C-D	-1576 / 0	-77.4	-77.4 0.49 (1)	4.72	Q-D	0 / 367	0.06 (1)		
D-E	-1324 / 0	-84.9	-84.9 0.20 (1)	2.00	D-O	0 / 253	0.04 (1)		
E-F	-1324 / 0	-84.9	-84.9 0.20 (1)	2.00	O-E	-418 / 0	0.27 (1)		
F-G	-1576 / 0	-77.4	-77.4 0.49 (1)	4.72	O-F	0 / 253	0.04 (1)		
G-H	-1576 / 0	-77.4	-77.4 0.49 (1)	4.72	N-F	0 / 367	0.06 (1)		
H-I	-1865 / 0	-77.4	-77.4 0.54 (1)	4.37	N-H	-398 / 0	0.21 (1)		
I-J	0 / 30	-77.4	-77.4 0.09 (1)	10.00	L-H	-134 / 65	0.09 (1)		
S-A	-1597 / 0	0.0	0.0 0.17 (1)	6.54	A-R	0 / 1544	0.35 (1)		
K-I	-1697 / 0	0.0	0.0 0.18 (1)	6.38	L-I	0 / 1544	0.35 (1)		
S-R	0 / 0	-17.5	-17.5 0.18 (4)	10.00					
R-Q	0 / 1521	-17.5	-17.5 0.34 (1)	10.00					
Q-P	0 / 1235	-17.5	-17.5 0.26 (1)	10.00					
P-O	0 / 1235	-17.5	-17.5 0.26 (1)	10.00					
O-N	0 / 1235	-17.5	-17.5 0.26 (1)	10.00					
N-M	0 / 1521	-17.5	-17.5 0.34 (1)	10.00					
M-L	0 / 1521	-17.5	-17.5 0.34 (1)	10.00					
L-K	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

LOADING IN FLAT SECTION BASED ON
PIGGYBACK TRUSS WITH SLOPES OF 9.00/12
AND -9.00/12 AND RESPECTIVE WALL
HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL
DEAD LOAD OF 3.0 P.S.F.

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.13")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (1.13")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.13")

CSI: TC=0.54/1.00 (A-B:1) , BC=0.34/1.00 (Q-R:1) ,
WB=0.35/1.00 (A-R:1) , SSI=0.20/1.00 (A-B: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 (L) (INPUT = 0.90)
JSI METAL= 0.57 (R) (INPUT = 1.00)

CONTINUED ON PAGE 2



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN YORK HOMES-CELESTIAL 2018	DWG NO.
NE0618-032	T10	4	1	TRUSS DESC.	1	PAGE 26 OF 30

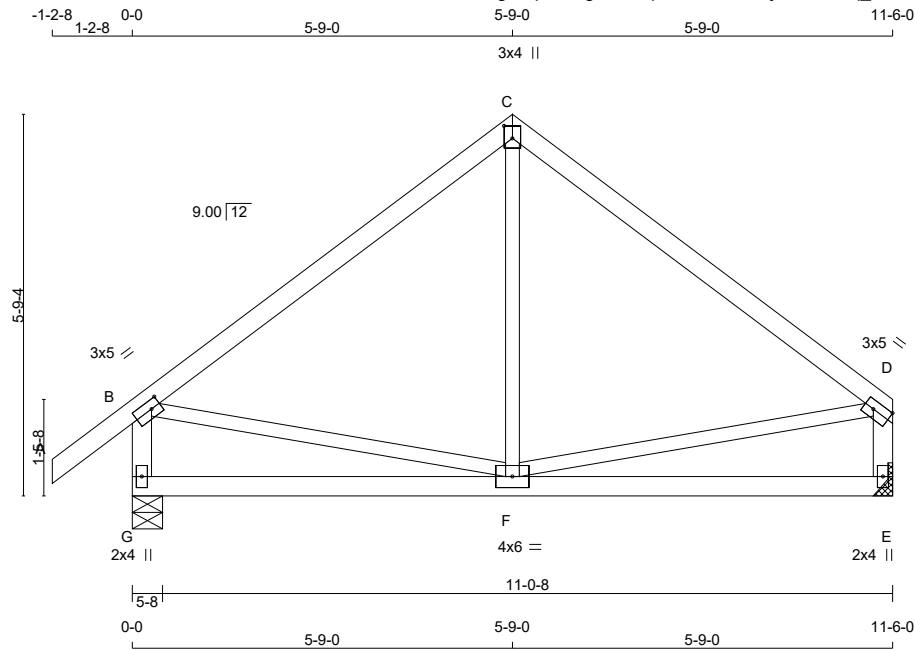
Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Jun 5 16:23:20 2018 Page 2
ID:XgvKq7wA9gLFADxpsWfVufzB0Hj-3EShF9pLfYG4Uy6Pr3_n137qll9_Sw4zGltv8wz9I95

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

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



Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Jun 5 16:23:21 2018 Page 1
ID:XgvKq7wA9gLFADxpsWfVufzB0Hj-XR03TVq_QGOx56hbPmV0aGg2q6XwBRh6VycTgNz9I94



Scale = 1:34.8

TOTAL WEIGHT = 4 X 47 = 188 lb

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - D	2x4	DRY	No.2	SPF
G - B	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF
G - E	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
B	TMVW-t	MT20	3.0	5.0	1.50	1.75
C	TTW+p	MT20	3.0	4.0	2.25	1.50
D	TMVW-t	MT20	3.0	5.0	1.50	Edge
E	BMV1+p	MT20	2.0	4.0		
F	BMWW-t	MT20	4.0	6.0		
G	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	UPLIFT
G	646	0	646	0
E	545	0	545	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
G	451	328 / 0	0 / 0	0 / 0	0 / 0	0 / 0	123 / 0	0 / 0
E	383	268 / 0	0 / 0	0 / 0	0 / 0	0 / 0	115 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		FROM	TO	
A-B	0 / 30	-77.4	-77.4	0.09 (1)	10.00	F-C	0 / 101	0.03 (4)	
B-C	-376 / 0	-77.4	-77.4	0.33 (1)	6.25	B-F	0 / 306	0.07 (1)	
C-D	-376 / 0	-77.4	-77.4	0.33 (1)	6.25	F-D	0 / 306	0.07 (1)	
G-B	-607 / 0	0.0	0.0	0.06 (1)	7.81				
E-D	-507 / 0	0.0	0.0	0.05 (1)	7.81				
G-F	0 / 0	-17.5	-17.5	0.17 (4)	10.00				
F-E	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 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.38")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.33/1.00 (B-C:1) , BC=0.17/1.00 (E-F:4) , WB=0.07/1.00 (B-F:1) , SSI=0.14/1.00 (B-C: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

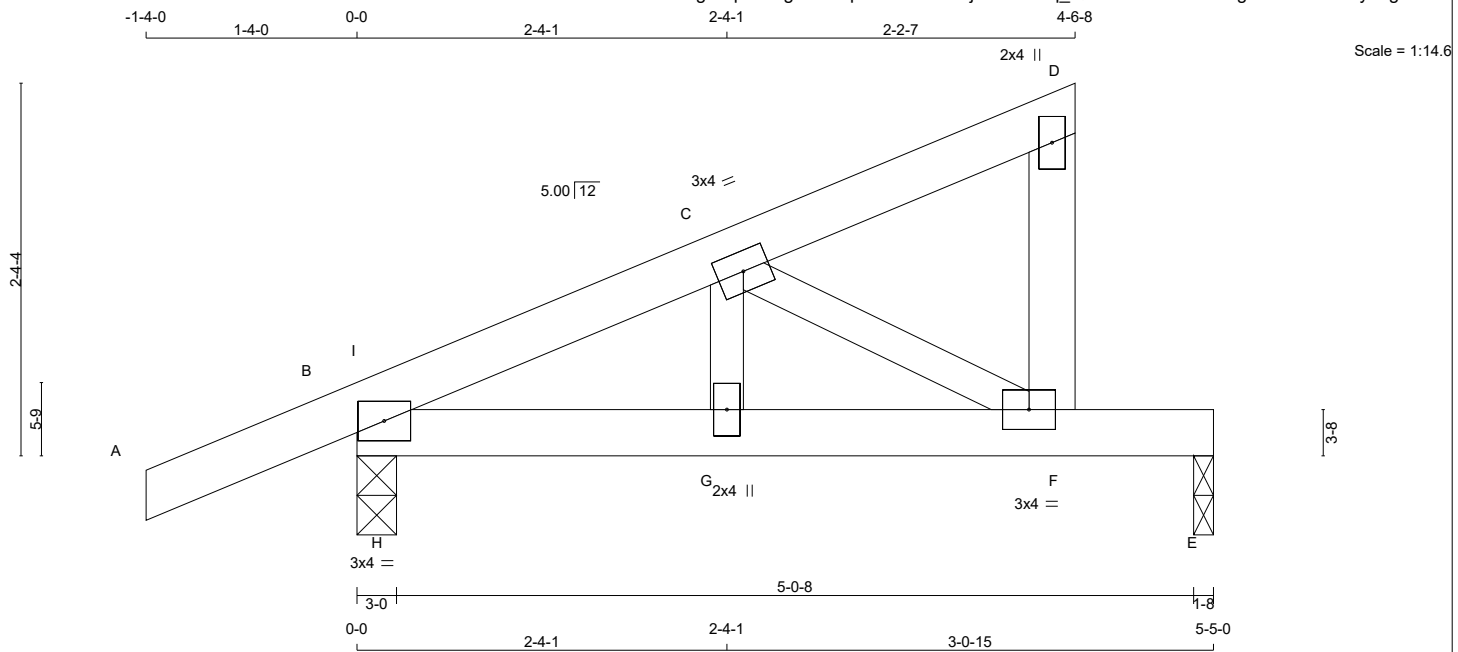
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.51 (D) (INPUT = 0.90)
JSI METAL= 0.17 (D) (INPUT = 1.00)

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





TOTAL WEIGHT = 8 X 18 = 143 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	DRY	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
F - D	2x4	DRY	No.2	SPF
B - E	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
B	TMB1-I	MT20	3.0	4.0	
C	TMWW-t	MT20	3.0	4.0	
D	TMV+p	MT20	2.0	4.0	
F	BMVW-t	MT20	3.0	4.0	
G	BMW+w	MT20	2.0	4.0	

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	VERT	HORZ	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
B	359	0	359	0	0	3-0	3-0		
E	195	0	195	0	0	1-8	1-8		

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	250	188 / 0	0 / 0	0 / 0	0 / 0	62 / 0	0 / 0
E	138	89 / 0	0 / 0	0 / 0	0 / 0	49 / 0	0 / 0

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

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			
A-B	0 / 16	-77.4 -77.4	0.10 (1)	10.00	G-C	0 / 144	0.03 (1)
B-I	-399 / 0	-77.4 -77.4	0.04 (1)	6.25	C-F	-380 / 0	0.06 (1)
I-C	-368 / 0	-77.4 -77.4	0.04 (1)	6.25	H-I	-8 / 26	0.00 (1)
C-D	-4 / 0	-77.4 -77.4	0.05 (1)	10.00			
F-D	-76 / 0	0.0	0.01 (1)	7.81			
B-H	0 / 338	-17.5 -17.5	0.06 (1)	10.00			
H-G	0 / 338	-17.5 -17.5	0.10 (1)	10.00			
G-F	0 / 338	-17.5 -17.5	0.28 (1)	10.00			
F-E	0 / 0	-17.5 -17.5	0.22 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.10/1.00 (A-B:1), BC=0.28/1.00 (F-G:1), WB=0.06/1.00 (C-F:1), SSI=0.15/1.00 (E-F: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= 0.52 (F) (INPUT = 0.90)
JSI METAL= 0.13 (B) (INPUT = 1.00)

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



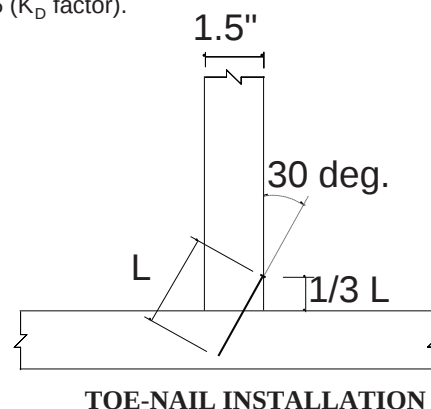
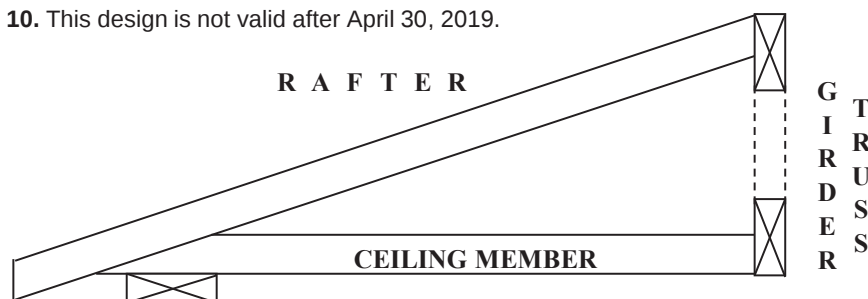
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B37579H1

NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL LATERAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	132	147
	3.25	0.144	132	147
	3.50	0.160	159	177

NOTES:

1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-09, section 10.9.4.1.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in tables below.
5. Nail values in table are based on the following relative lumber densities: G = 0.42 (SPF), G = 0.49 (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See next page for nailing on bearing plate).
7. For loads due to **wind** the nail lateral capacity in this table may be multiplied by 1.15 (K_D factor).
8. Lumber must be dry (< 19% moisture content) at the time of nail installation.
9. Nail values in this table comply with CSA O86-09, section 10.9.4
10. This design is not valid after April 30, 2019.



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



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

PEO
Certificate No. 10889485



April 26, 2017

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B37579H2

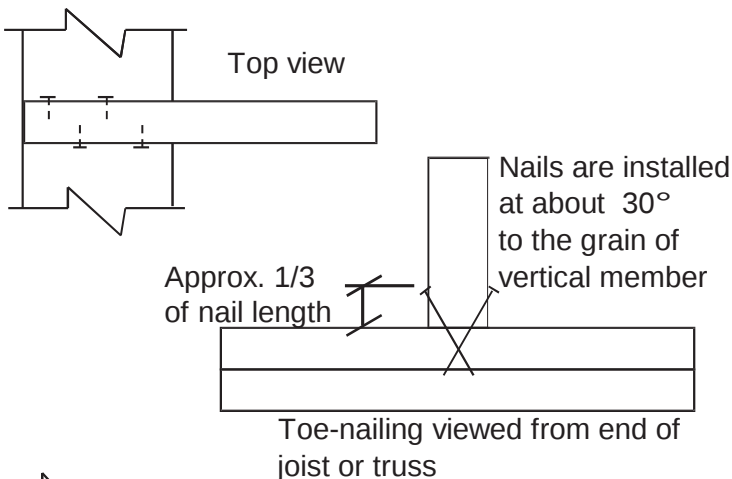
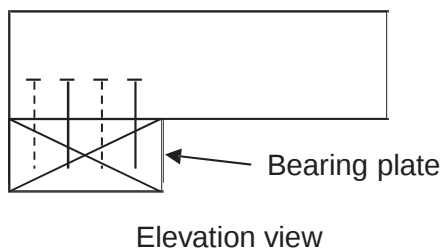
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52

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

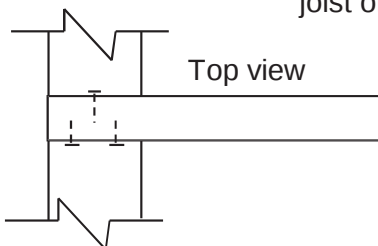
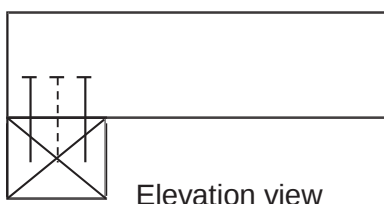
NOTES:

1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to **wind or earthquake** load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher than the maximum toe-nail withdrawal capacity.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-09, section 10.9.5.2.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in table above.
5. Nail values in table are based on the following relative lumber densities: $G = 0.42$ (SPF), $G = 0.49$ (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See drawing on detail B37579H1).
7. Lumber must be dry (< 19% moisture content) at the time of nail installation.
8. Nail values in this table comply with CSA O86-09, section 10.9.5
9. This design is not valid after April 30, 2019

Toe-nailing on 2x6 Bearing Plate



Toe-nailing on 2x4 Bearing Plate



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April 26, 2017