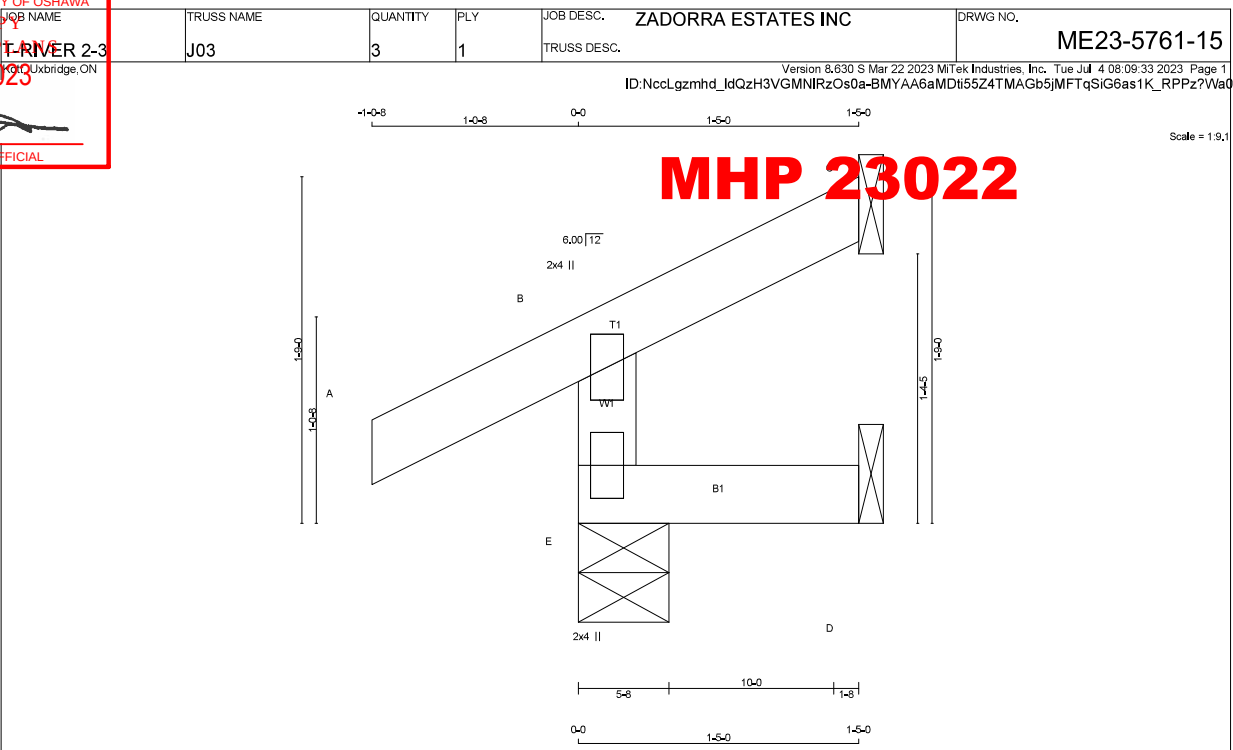




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CHIEF BUILDING OFFICIAL



LUMBER
N, L, G, A, RULES
CHORDS SIZE LUMBER DESCR.
E - B 2x4 DRY No.2 SPF
A - C 2x4 DRY No.2 SPF
E - D 2x4 DRY No.2 SPF
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							
	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
E	281	0	281	0	0	5-8	1-8
C	44	0	44	0	-28	1-8	1-8
D	2	0	12	0	-7	1-8	1-8

SEE MITEK STANDARD DETAIL, MSD2015-H FOR CONNECTION TO JOINT(S) C, D
PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS. FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT D FOR 150 LBS. FACTORED UPLIFT

UNFACTORED REACTIONS

JT	1ST CASE	MAX. LIVE	MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	194	156 / 0	0 / 0	0 / 0	0 / 0	37 / 0	0 / 0
C	30	25 / -21	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0
D	3	0 / -9	0 / 0	0 / 0	0 / 0	9 / 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
TOTAL LOAD CASES: (5)

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX	MEMB.	MAX. FACTORED
MEMB.	FORCE (LBS)	(PLF)	CSI (LC)	UNBRAC	LENGTH	FR-TO	FR-TO	FORCE (LBS)
E-B	-258 / 0	0.0	0.0	0.03 (5)	7.81			
A-B	0 / 30	-119.4	-119.4	0.10 (1)	10.00			
B-C	-18 / 0	-119.4	-119.4	0.08 (1)	6.25			
E-D	0 / 0	-18.2	-18.2	0.03 (5)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN
PATTERN LOADING CHECK APPLIED TO THIS TRUSS.

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 48.1 PSF

SPACING = 24.0 IN. GIG
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS
- OVERHANG NOT TO BE ALTERED OR CUT OFF.
(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.10/1.00 (A-B 1), BC=0.03/1.00 (D-E 5),
WB=0.00/1.00 (n/a 0), SSI=0.09/1.00 (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 = 1.00

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	650	371	1747

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (B) (INPUT = 0.90)
JSI METAL= 0.11 (B) (INPUT = 1.00)

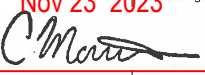
MODULUS ENGINEERING LTD.



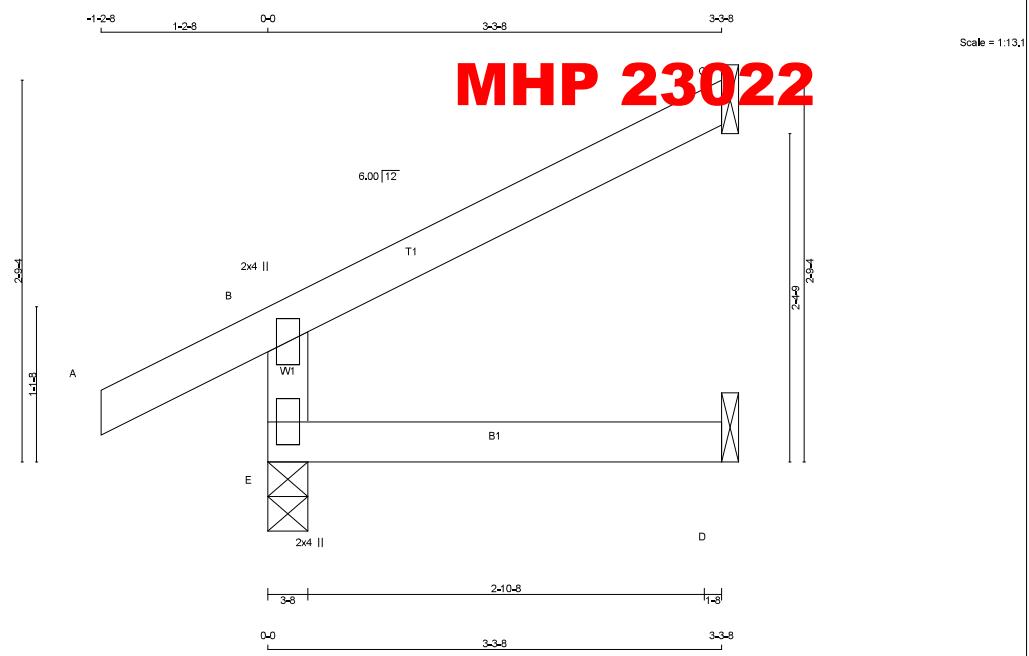
REVIEW FOR TRUSS COMPONENT ONLY
NOTE: ALTERING THIS DOCUMENT
VOIDS THE ENGINEER'S SEAL

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED IN MODULUS ENGINEERING LTD. NOTES ME-TC001 (VER 06/2017) BEFORE USE.
Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for individual building components. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult
TPIC Appendix G - Minimum quality Manufacturing Criteria available from www.tpica.ca and BCSI-CANADA (Building Component Safety Information) available from TPI, 781 N. Lee Street, Suite 312, Alexandria, VA 22314 or www.sbindustry.com



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JOB NAME T-RIVER 2-3	TRUSS NAME J04	QUANTITY 3	PLY 1	JOB DESC. ZADORRA ESTATES INC	DRWG NO. ME23-5761-16
Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Tue Jul 4 08:09:35 2023 Page 1 ID:NccLgzmhd_ldQzH3VGMNIRzOs0a-7lgxbocclVypLSErTbI3A8SZAE8_k048VeTYTHz?Wa					



LUMBER

N, L, G, A, RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.
E - B	2x4	DRY	No.2	SPF	
A - C	2x4	DRY	No.2	SPF	
E - D	2x4	DRY	No.2	SPF	

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG IN-SX	REQRD BRG IN-SX
JT	VERT	DOWN		
E	432	0	3-8	1-8
C	148	0	1-8	1-8
D	26	0	1-8	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	299	232 / 0	0 / 0	0 / 0	0 / 0	67 / 0	0 / 0
C	101	86 / 0	0 / 0	0 / 0	0 / 0	15 / 0	0 / 0
D	21	0 / 0	0 / 0	0 / 0	0 / 0	21 / 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

TOTAL LOAD CASES: (7)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	
FR-TO		FROM	TO	FR-TO			
E-B	-398 / 0	0.0	0.03 (4)	7.81			
A-B	0 / 34	-119.4	-119.4	0.14 (5)	10.00		
B-C	-22 / 0	-119.4	-119.4	0.22 (6)	6.25		
E-D	0 / 0	-18.2	-18.2	0.04 (4)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

PATTERN-LOADING CHECK APPLIED TO THIS TRUSS.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 34.8 PSF
DL = 6.0 PSF	
BOT CH.	LL = 0.0 PSF
DL = 7.3 PSF	
TOTAL LOAD = 48.1 PSF	

SPACING = 24.0 IN. G/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 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=0.22/1.00 (B-C-6) , BC=0.04/1.00 (D-E-4) , WB=0.00/1.00 (n/a.0) , SSI=0.17/1.00 (B-C-6)

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

COMPANION LIVE LOAD FACTOR = 1.00

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	650	371	1747

MAX MIN MAX MIN MAX MIN

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

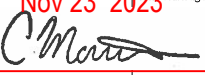
JSI GRIP= 0.22 (B) (INPUT = 0.90)
JSI METAL= 0.17 (B) (INPUT = 1.00)

MODULUS ENGINEERING LTD.

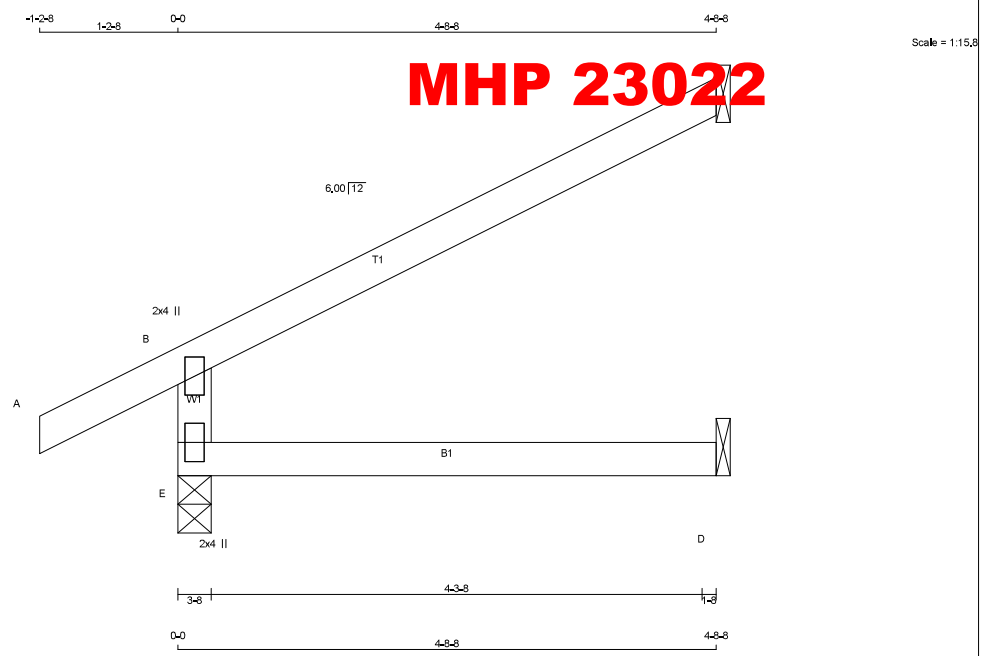


REVIEW FOR TRUSS COMPONENT ONLY

NOTE: ALTERING THIS DOCUMENT
VOIDS THE ENGINEER'S SEAL

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Nov 23 2023
PER: 
CHIEF BUILDING OFFICIAL

JOB NAME T-RIVER 2-3	TRUSS NAME J04A	QUANTITY 3	PLY 1	JOB DESC. ZADORRA ESTATES INC	DRWG NO. ME23-5761-17
TRUSS DESC. Version 8.630 S Mar 22 2023 Mitek Industries, Inc. Tue Jul 4 08:09:36 2023 Page 1 ID:NccLgzrhd_idQzH3VGMNIRzOs0a-cxDJo8cEWo4gy0p21jplim_g1TbTskklc5?kz?WZz					



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

E - B	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF

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 VERT	MAXIMUM FACTORED GROSS REACTION DOWN	FACTORED GROSS REACTION UP	INPUT BRG IN-SX	REQD BRG IN-SX
E	553	0	553	0	3-8
C	211	0	211	0	1-8
D	36	0	40	0	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	384	293 / 0	0 / 0	0 / 0	0 / 0	91 / 0	0 / 0
C	144	123 / 0	0 / 0	0 / 0	0 / 0	21 / 0	0 / 0
D	29	0 / 0	0 / 0	0 / 0	0 / 0	29 / 0	0 / 0

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

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 (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MEMB.
FR-TO		FROM	TO	FR-TO		FROM	TO
E-B	-503 / 0	0.0	0.0	0.08 (4)	7.81		
A-B	0 / 34	-119.4	-119.4	0.14 (1)	10.00		
B-C	-31 / 0	-119.4	-119.4	0.45 (1)	6.25		
E-D	0 / 0	-18.2	-18.2	0.08 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 48.1 PSF

SPACING = 240 IN. G/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS
- OVERHANG NOT TO BE ALTERED OR CUT OFF.
(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 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=0.45/1.00 (B-C:1) , BC=0.08/1.00 (D-E:4) , WB=0.00/1.00 (n/a:0) , SSI=0.25/1.00 (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 = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PU)
MT20	650	371	1747

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.28 (B) (INPUT = 0.90)
JSI METAL= 0.21 (B) (INPUT = 1.00)

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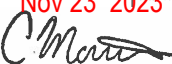
REVIEW FOR TRUSS COMPONENT ONLY

NOTE: ALTERING THIS DOCUMENT
VOIDS THE ENGINEER'S SEAL

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED IN MODULUS ENGINEERING LTD. NOTES ME-TC001 (VER 06/2017) BEFORE USE.
Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for individual building components. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult
TPIC Appendix G - Minimum quality Manufacturing Criteria available from www.tpica.ca and BCSI-CANADA (Building Component Safety Information) available from TPI, 781 N. Lee Street, Suite 312, Alexandria, VA 22314 or www.sbindustry.com



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Nov 23 2023

PER: 
CHIEF BUILDING OFFICIAL

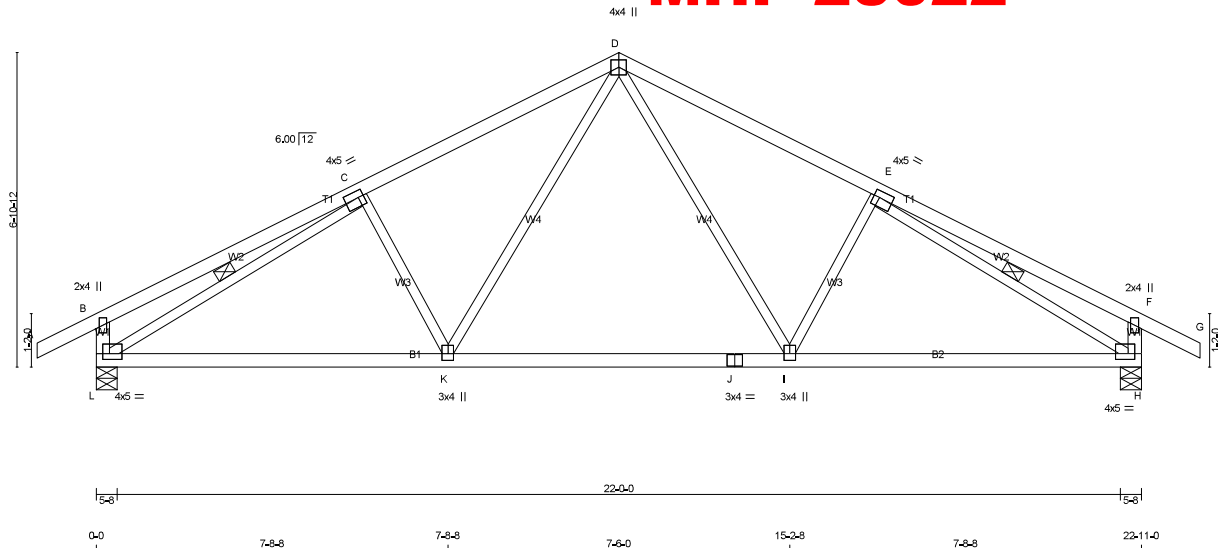
TRUSS NAME: T01
QUANTITY: 11
PLY: 1
JOB DESC.: ZADORRA ESTATES INC
TRUSS DESC.:
Version 8.630 S Mar 22 2023 Mitek Industries, Inc. Tue Jul 4 08:09:38 2023 Page 1
ID: NccLgzmhd_IdQzH3VGMNIRzOs0a-YKL3DpeV2QKNCKzQ9jsmon4_wr3VxBbbBchC3cz?WZx

DRWG NO.

ME23-5761-18

Scale = 1:39.7

MHP 23022



LUMBER

N, L, G, A, RULES
CHORDS SIZE
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 - J 2x4 DRY No.2
J - H 2x4 DRY No.2

LUMBER

DESCR.

SPF
SPF
SPF
SPF
SPF
SPF

ALL WEBS

EXCEPT

LUMBER

DESCR.

SPF

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+4	MT20	4.0	5.0	1.75	1.50
D	TMWW+p	MT20	4.0	4.0		
E	TMWW+4	MT20	4.0	5.0	1.75	1.50
F	TMV+p	MT20	2.0	4.0		
H	BMVW+4	MT20	4.0	5.0	1.50	1.75
I	BMVW+4	MT20	3.0	4.0	1.75	1.50
J	BS4	MT20	3.0	4.0		
K	BMVW+4	MT20	3.0	4.0	1.75	1.50
L	BMVW+4	MT20	4.0	5.0	1.50	1.75

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	DOWN	HORZ	UPLIFT
L	1740	0	1740	0
H	1740	0	1740	0

UNFACTORED REACTIONS

JT	1ST CASE	MAX./MIN.	COMPONENT REACTIONS				
L	1213	892 / 0	0 / 0	0 / 0	0 / 0	321 / 0	0 / 0
H	1213	892 / 0	0 / 0	0 / 0	0 / 0	321 / 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 = 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 LATERAL BRACE(S) AT 1/2 LENGTH OF C₄, E₄.

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	LENGTH	FR-TO			
A-B	0 / 36	-119.4 -119.4	0.16 (1)	10.00	D-I	0 / 679	0.15 (1)
B-C	0 / 36	-119.4 -119.4	0.63 (1)	10.00	I-E	-497 / 0	0.15 (1)
C-D	-1936 / 0	-119.4 -119.4	0.56 (1)	4.20	K-D	0 / 679	0.15 (1)
D-E	-1936 / 0	-119.4 -119.4	0.56 (1)	4.20	C-K	-497 / 0	0.15 (1)
E-F	0 / 36	-119.4 -119.4	0.63 (1)	10.00	L-C	-2308 / 0	0.72 (1)
F-G	0 / 36	-119.4 -119.4	0.16 (1)	10.00	E-H	-2308 / 0	0.72 (1)
L-B	-424 / 0	0.0 0.0	0.04 (1)	7.81			
H-F	-424 / 0	0.0 0.0	0.04 (1)	7.81			
L-K	0 / 1936	-18.2 -18.2	0.44 (1)	10.00			
K-J	0 / 1367	-18.2 -18.2	0.34 (1)	10.00			
J-I	0 / 1367	-18.2 -18.2	0.34 (1)	10.00			
I-H	0 / 1936	-18.2 -18.2	0.44 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 48.1 PSF

SPACING = 24.0 IN. GIG

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.76")
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
ALLOWABLE DEFL.(TL) = L/360 (0.76")
CALCULATED VERT. DEFL.(TL) = L/999 (0.17")

CSI TC=0.63/1.00 (B-C:1), BC=0.44/1.00 (K-L:1), WB=0.72/1.00 (C-L:1), SS=0.30/1.00 (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 = 1.00

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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (C) (INPUT = 0.90)
JSI METAL= 0.62 (C) (INPUT = 1.00)

MODULUS ENGINEERING LTD.



REVIEW FOR TRUSS COMPONENT ONLY

NOTE: ALTERING THIS DOCUMENT
VOIDS THE ENGINEER'S SEAL

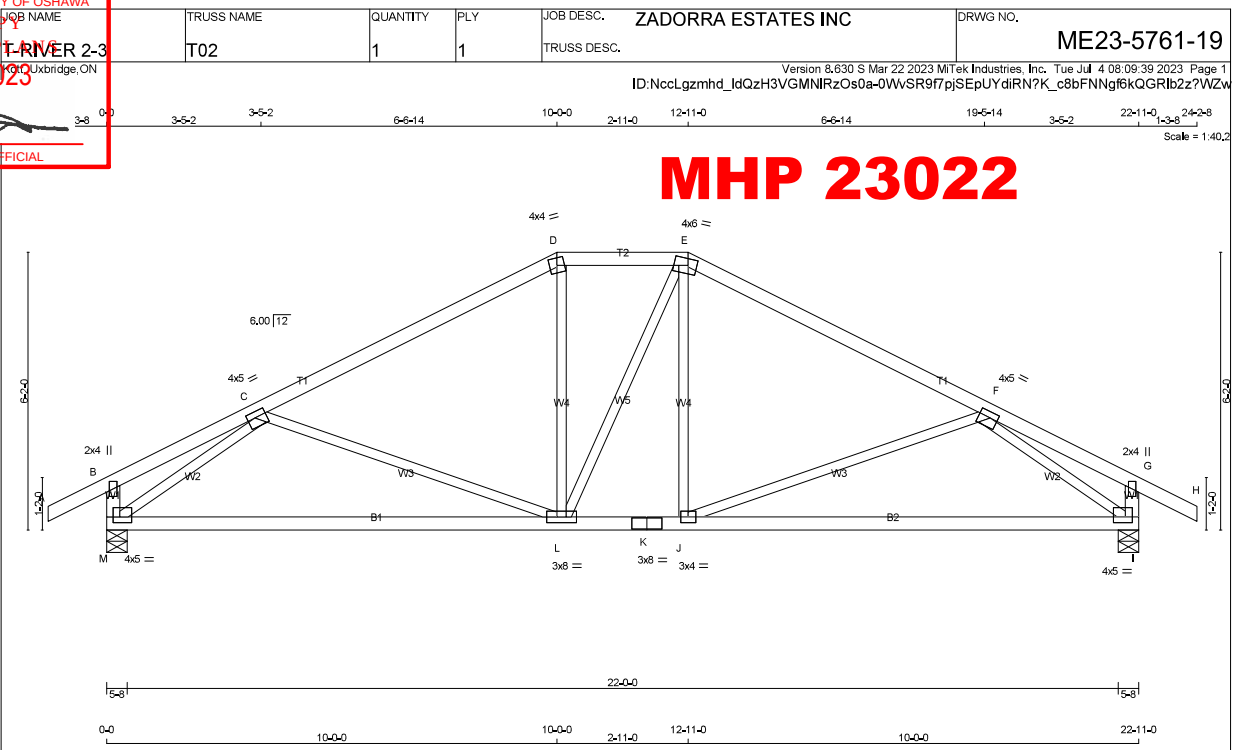
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED IN MODULUS ENGINEERING LTD. NOTES ME-TC001 (VER 06/2017) BEFORE USE.

Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for individual building components. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult

TPIC Appendix G - Minimum quality Manufacturing Criteria available from www.tpica.ca and BCSI-CANADA (Building Component Safety Information) available from TPI, 781 N. Lee Street, Suite 312, Alexandria, VA 22314 or www.sbindustry.com



CORPORATION OF THE CITY OF OSHAWA
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OF PERMIT
Nov 23 2023
PER: *C. Morris*
CHIEF BUILDING OFFICIAL



MHP 23022

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

A - D	2x4	DRY	No.2	SPF
D - E	2x4	DRY	No.2	SPF
E - H	2x4	DRY	No.2	SPF
M - B	2x4	DRY	No.2	SPF
I - G	2x4	DRY	No.2	SPF
M - K	2x4	DRY	No.2	SPF
K - I	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	TMV+p	MT20	2.0	4.0		
C	TMVW4	MT20	4.0	5.0	1.50	2.00
D	TTW-m	MT20	4.0	4.0		
E	TTWVW-m	MT20	4.0	6.0	1.75	2.25
F	TMVW4	MT20	4.0	5.0	1.50	2.00
G	TMV+p	MT20	2.0	4.0		
I	BMVW4	MT20	4.0	5.0	1.50	1.75
J	BMVW4	MT20	3.0	4.0		
K	BS4	MT20	3.0	8.0		
L	BMVW4	MT20	3.0	8.0		
M	BMVW4	MT20	4.0	5.0	1.50	1.75

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG IN-SX	REQRD BRG IN-SX
JT	VERT	DOWN		
M	1740	0	1740	0
I	1740	0	1740	0

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
M	1213	892 / 0	0 / 0	0 / 0	0 / 0	321 / 0	0 / 0
I	1213	892 / 0	0 / 0	0 / 0	0 / 0	321 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.10 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)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO	FROM	TO	LENGTH	FR-TO	FROM	TO	
A-B	0 / 36	-119.4	-119.4	0.16 (1)	10.00	C-L	-390 / 0
B-C	0 / 62	-119.4	-119.4	0.64 (1)	10.00	L-D	0 / 269
C-D	-1752 / 0	-119.4	-119.4	0.70 (1)	4.10	L-E	0 / 1
D-E	-1543 / 0	-119.4	-119.4	0.16 (1)	5.16	J-E	0 / 268
E-F	-1752 / 0	-119.4	-119.4	0.70 (1)	4.10	J-F	-390 / 0
F-G	0 / 62	-119.4	-119.4	0.64 (1)	10.00	M-C	-2386 / 0
G-H	0 / 36	-119.4	-119.4	0.16 (1)	10.00	F-I	-2386 / 0
M-B	-223 / 0	0.0	0.0	0.02 (1)	7.81		
I-G	-223 / 0	0.0	0.0	0.02 (1)	7.81		
M-L	0 / 1903	-18.2	-18.2	0.52 (1)	10.00		
L-K	0 / 1543	-18.2	-18.2	0.50 (4)	10.00		
K-J	0 / 1543	-18.2	-18.2	0.50 (4)	10.00		
J-I	0 / 1903	-18.2	-18.2	0.53 (1)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	34.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD		=	48.1	PSF

SPACING = 24.0 IN. GIG

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, NBC2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 48.1 P.S.F., G.S.L. PLUS 8.4 P.S.F., RAIN LOAD) EQUALS 34.8 P.S.F., SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.76")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.76")
CALCULATED VERT. DEFL.(TL) = L/813 (0.34")

CSI: TC=0.70/1.00 (C-D-1), BC=0.53/1.00 (I-J-1), WB=0.70/1.00 (C-M-1), SS=0.33/1.00 (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 = 1.00

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	MAX MIN	MAX MIN	MAX MIN
	650 371	1747 788	1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

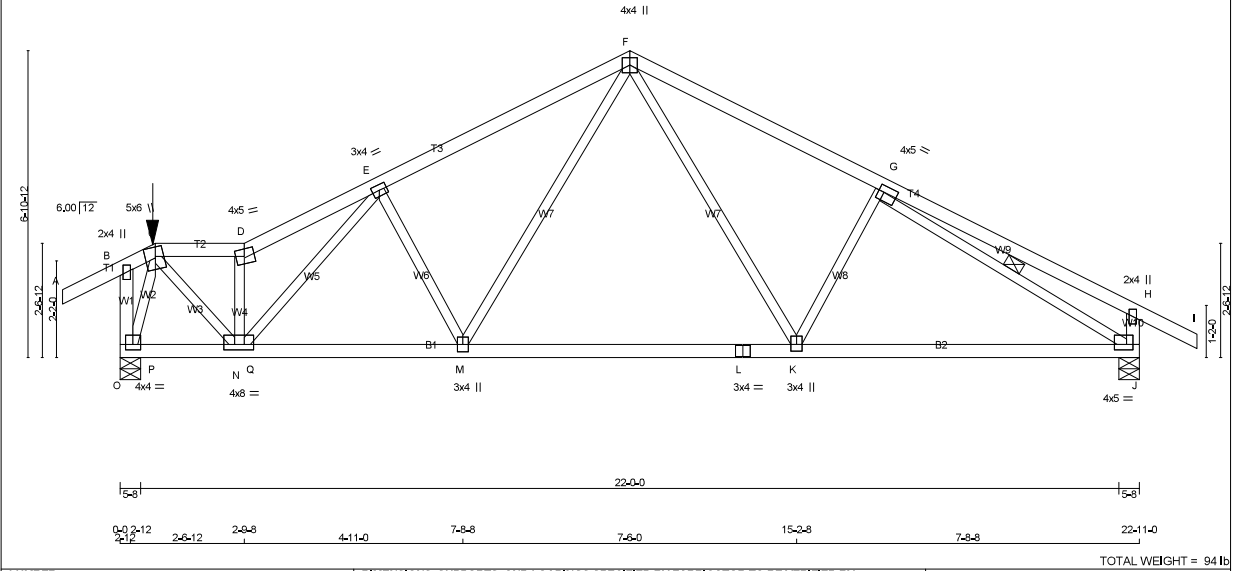
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (K) (INPUT = 0.90)
JSI METAL= 0.89 (K) (INPUT = 1.00)

MODULUS ENGINEERING LTD.

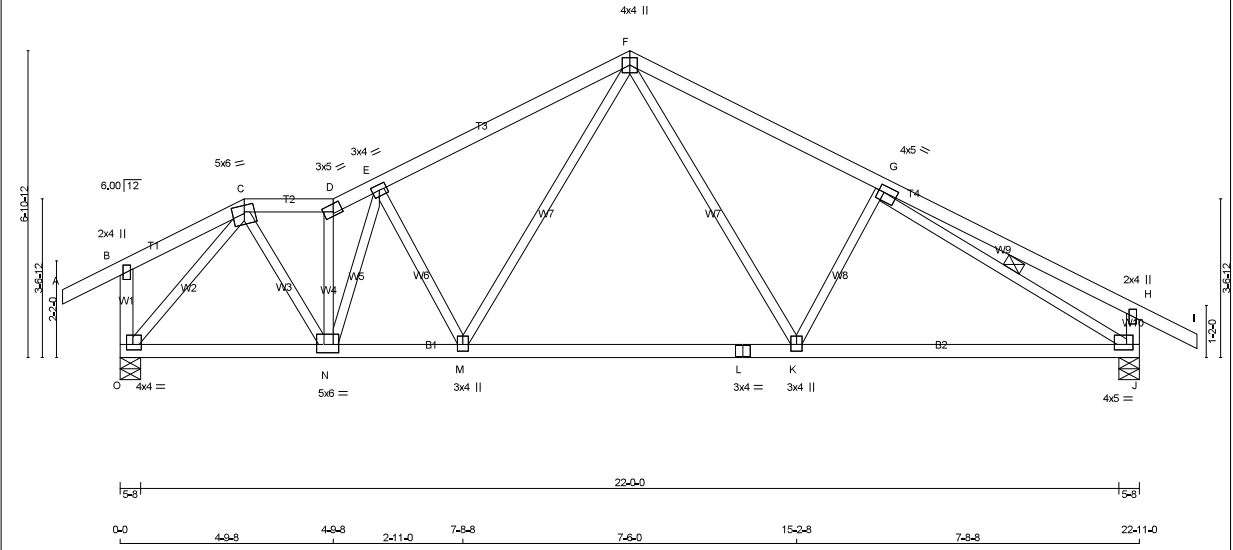
REVIEW FOR TRUSS COMPONENT ONLY

NOTE: ALTERING THIS DOCUMENT
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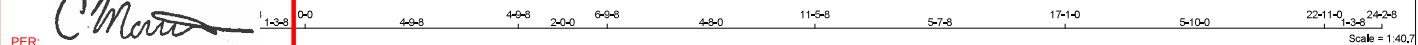
LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				DESIGN CRITERIA			
N, L, G, A, RULES				FACTORED				SPECIFIED LOADS:			
CHORDS				GROSS REACTION				TOP CH. LL = 34.8 PSF			
A - C 2x4 DRY No.2				MAXIMUM FACTORED				DL = 6.0 PSF			
C - D 2x4 DRY No.2				INPUT				BOT CH. LL = 0.0 PSF			
D - F 2x4 DRY No.2				BRG				DL = 7.3 PSF			
F - I 2x4 DRY No.2				IN-SX				TOTAL LOAD = 48.1 PSF			
O - B 2x4 DRY No.2				REQRD							
J - H 2x4 DRY No.2				BRG							
O - L 2x4 DRY No.2				IN-SX							
L - J 2x4 DRY No.2				1-14							
ALL WEBS 2x3 DRY No.2											
EXCEPT											
DRY: SEASONED LUMBER.											
				UNFACTORED REACTIONS				SPACING = 24.0 IN. G/G			
				1ST CASE							
				MAX./MIN. COMPONENT REACTIONS							
				JT COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL							
				O 1216 895 / 0 0 / 0 0 / 0 320 / 0 0 / 0							
				J 1210 889 / 0 0 / 0 0 / 0 320 / 0 0 / 0							
				BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) O, J							
				BRACING							
				TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.49 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 LATERAL BRACE(S) AT 1/2 LENGTH OF G-J.							
				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 FROM TO				FR-TO FROM TO			
				A-B 0 / 36 -119.4 -119.4 0.17 (1) 10.00 C-N 0 / 1744 0.43 (1)							
				B-C -63 / 0 -119.4 -119.4 0.16 (1) 6.25 N-D -1005 / 0 0.18 (1)							
				C-D -1599 / 0 -115.7 -115.7 0.12 (1) 5.08 N-E -364 / 0 0.15 (1)							
				D-E -1788 / 0 -119.4 -119.4 0.57 (1) 4.15 E-M -475 / 0 0.15 (1)							
				E-F -1892 / 0 -119.4 -119.4 0.87 (1) 4.04 M-F 0 / 631 0.16 (1)							
				F-G -1932 / 0 -119.4 -119.4 0.89 (1) 3.49 F-K 0 / 687 0.17 (1)							
				G-H 0 / 36 -119.4 -119.4 0.70 (1) 10.00 K-G -498 / 0 0.16 (1)							
				H-I 0 / 36 -119.4 -119.4 0.17 (1) 10.00 O-C -1450 / 0 0.25 (1)							
				O-B -348 / 0 0.0 0.0 0.04 (1) 7.81 G-J -2300 / 0 0.75 (1)							
				J-H -424 / 0 0.0 0.0 0.05 (1) 7.81							
				O-P 0 / 479 -17.7 -17.7 0.11 (1) 10.00							
				P-N 0 / 479 -17.7 -17.7 0.11 (1) 10.00							
				N-Q 0 / 1879 -17.7 -17.7 0.42 (1) 10.00							
				Q-M 0 / 1879 -18.2 -18.2 0.42 (1) 10.00							
				M-L 0 / 1356 -18.2 -18.2 0.39 (4) 10.00							
				L-K 0 / 1356 -18.2 -18.2 0.39 (4) 10.00							
				K-J 0 / 1929 -18.2 -18.2 0.49 (1) 10.00							
				FACTORED CONCENTRATED LOADS (LBS)							
				JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE HEEL CONN.							
				C 9-8 -8 -8 FRONT VERT TOTAL - C1							
				CONNECTION REQUIREMENTS							
				1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.							
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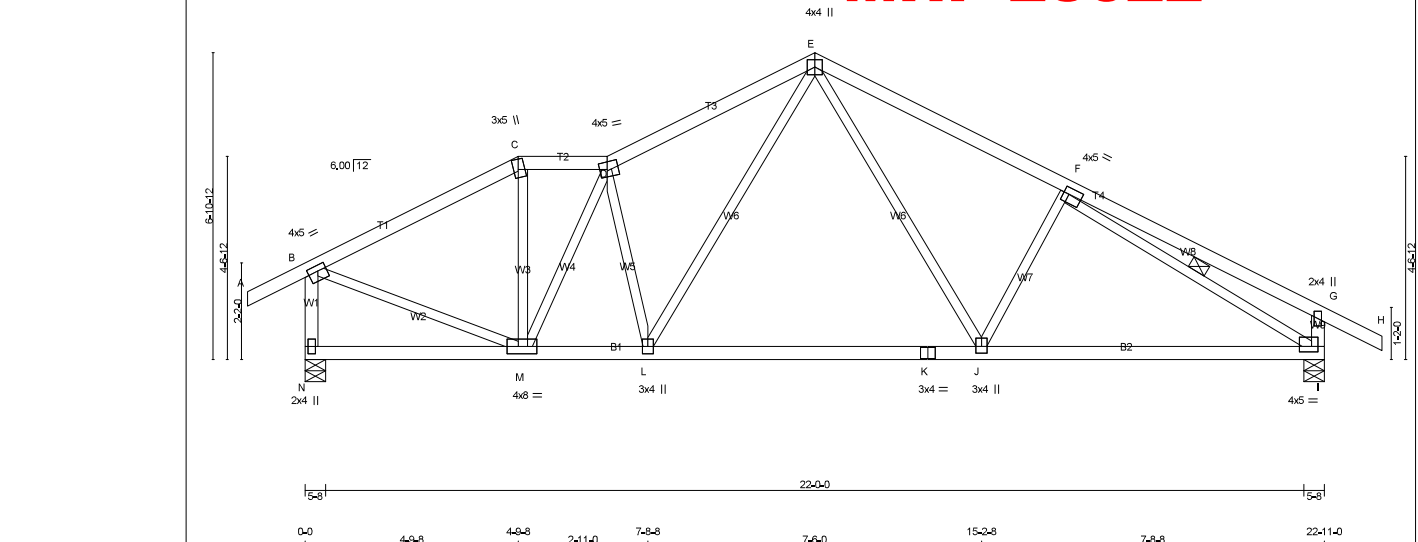


LUMBER										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA									
N. L. G. A. RULES																													
CHORDS SIZE LUMBER DESCR.																				SPECIFIED LOADS:									
A - C 2x4 DRY No.2 SPF																				TOP CH. LL = 34.8 PSF									
C - D 2x4 DRY No.2 SPF																				DL = 6.0 PSF									
D - F 2x4 DRY No.2 SPF																				BOT CH. LL = 0.0 PSF									
F - I 2x4 DRY No.2 SPF																				DL = 7.3 PSF									
O - B 2x4 DRY No.2 SPF																				TOTAL LOAD = 48.1 PSF									
J - H 2x4 DRY No.2 SPF																													
O - L 2x4 DRY No.2 SPF																													
L - J 2x4 DRY No.2 SPF																													
ALL WEBS 2x3 DRY No.2 SPF																				SPACING = 24.0 IN. C/C									
EXCEPT																													
DRY, SEASONED LUMBER.																				LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 2.00/12 MINIMUM									
																				THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015									
																				THIS DESIGN COMPLIES WITH:									
																				- PART 9 OF CBC 2018 - NBC-2019AE									
																				- PART 9 OF OBC 2012 (2019 AMENDMENT)									
																				- CSA 086-14									
																				- TPIC 2014									
																				(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD									
PLATES (table is in inches)																				ALLOWABLE DEFL.(LL)= L/360 (0.76")									
JT TYPE PLATES W LEN Y X																				CALCULATED VERT. DEFL.(LL) = L/999 (0.08")									
B TMV+p MT20 2.0 4.0																				ALLOWABLE DEFL.(TL)= L/360 (0.76")									
C TTVW+m MT20 5.0 6.0 1.75 2.75																				CALCULATED VERT. DEFL.(TL) = L/999 (0.17")									
D TTVW+ MT20 3.0 5.0 2.00 2.50																				CSI: TC=0.63/1.00 (G-H-1), BC=0.45/1.00 (J-K-1), WB=0.72/1.00 (G-J-1), SSI=0.30/1.00 (D-E-1)									
E TMWW+4 MT20 3.0 4.0																				DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10									
F TTVW+p MT20 4.0 4.0																				COMP=1.10 SHEAR=1.10 TENS= 1.10									
G TMWW+4 MT20 4.0 5.0 1.75 1.50																				COMPANION LIVE LOAD FACTOR = 1.00									
H TMV+p MT20 2.0 4.0																				AUTOSOLVE RIGHT HEEL ONLY									
J BMVW+1+ MT20 4.0 5.0 1.50 1.75																				TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.									
K BMVW+ MT20 3.0 4.0 1.75 1.50																				NAIL VALUES									
L BS+ MT20 3.0 4.0																				PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)									
M BMVW+ MT20 3.0 4.0 1.75 1.50																				MAX MIN MAX MIN MAX MIN									
N BMVW+4 MT20 5.0 6.0 2.25 2.00																				MT20 650 371 1747 788 1987 1873									
O BMVW+1 MT20 4.0 4.0 1.50 1.75																				PLATE PLACEMENT TOL. = 0.250 inches									
																				PLATE ROTATION TOL. = 5.0 Deg.									
																				JSI GRIP= 0.89 (F) (INPUT = 0.90)									
																				JSI METAL= 0.62 (G) (INPUT = 1.00)									

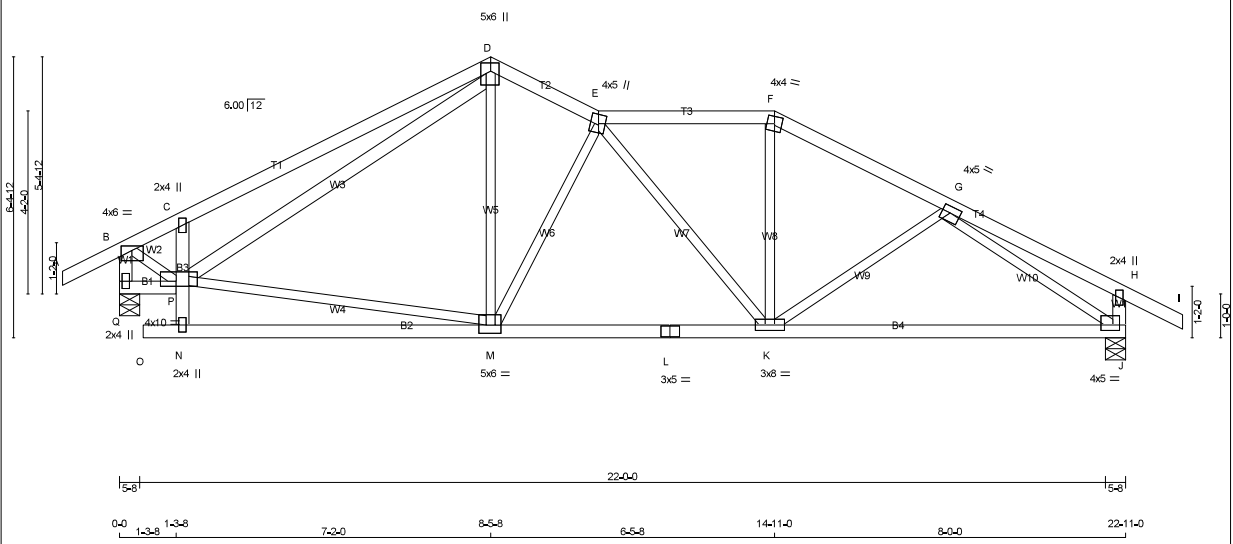
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TRUSS DESC.					

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Tue Jul 4 08:09:45 2023 Page 1
ID:NcclGzmhd_IdQzH3VGMNRzOs0a-rgGjhDjuOZDOP?m3hUPaFsB9gRx4MldoCu4piz?VWz

MHP 23022



MHP 23022



LUMBER N, L, G, A, RULES CHORDS SIZE LUMBER DESCR. A - D 2x4 DRY 2100F 1.8E SPF D - E 2x4 DRY No.2 SPF E - F 2x4 DRY No.2 SPF F - I 2x4 DRY No.2 SPF Q - B 2x4 DRY No.2 SPF J - H 2x4 DRY No.2 SPF K - P 2x4 DRY No.2 SPF N - C 2x4 DRY No.2 SPF O - L 2x4 DRY No.2 SPF L - J 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT P - D 2x4 DRY No.2 SPF 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 REQD JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX Q 1760 0 1760 0 0 5-8 2-4 J 1736 0 1736 0 0 5-8 1-14 UNFACTORED REACTIONS 1ST CASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL Q 1229 895 / 0 0 / 0 0 / 0 334 / 0 0 / 0 J 1211 889 / 0 0 / 0 0 / 0 321 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) Q, J BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.61 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 VERT. LOAD LC1 MAX. MAX. MEMB. MAX. FACTORED FORCE MAX. (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC) FR-TO A-B 0 / 36 -119.4 -119.4 0.10 (1) 10.00 P-M 0 / 1236 0.28 (1) B-C -1728 / 0 -119.4 -119.4 0.41 (1) 5.50 P-D 0 / 189 0.03 (1) C-D -1759 / 0 -119.4 -119.4 0.50 (1) 5.35 M-D 0 / 864 0.19 (1) D-E -1558 / 0 -119.4 -119.4 0.12 (1) 5.18 M-E -1011 / 0 0.50 (1) E-F -1708 / 0 -119.4 -119.4 0.28 (1) 4.62 E-K -220 / 0 0.15 (1) F-G -1921 / 0 -119.4 -119.4 0.26 (1) 4.61 K-F 0 / 427 0.10 (1) G-H 0 / 23 -119.4 -119.4 0.28 (1) 10.00 K-G -191 / 19 0.08 (1) H-I 0 / 36 -119.4 -119.4 0.18 (1) 10.00 B-P 0 / 1959 0.44 (1) Q-B -1747 / 0 0.0 0.0 0.18 (1) 6.30 G-J -2277 / 0 0.90 (1) J-H -351 / 0 0.0 0.0 0.04 (1) 7.81 Q-P 0 / 0 -18.2 -18.2 0.01 (4) 10.00 N-P 0 / 79 0.0 0.0 0.23 (1) 10.00 P-C -863 / 0 0.0 0.0 0.18 (1) 7.81 O-N 0 / 0 -18.2 -18.2 0.02 (4) 10.00 M-M 0 / 163 -18.2 -18.2 0.20 (4) 10.00 M-L 0 / 1843 -18.2 -18.2 0.42 (1) 10.00 L-K 0 / 1843 -18.2 -18.2 0.42 (1) 10.00 K-J 0 / 1853 -18.2 -18.2 0.44 (1) 10.00		DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 34.8 PSF DL = 6.0 PSF BOT CH. LL = 0.0 PSF DL = 7.3 PSF TOTAL LOAD = 48.1 PSF SPACING = 24.0 IN. GIG LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 2.00/12 MINIMUM THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF CBC 2018, NBC-2019AE - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 DESIGN ASSUMPTIONS - OVERHANG NOT TO BE ALTERED OR CUT OFF. (55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL) = L/360 (0.76") CALCULATED VERT. DEFL.(LL) = L/999 (0.07") ALLOWABLE DEFL.(TL) = L/360 (0.76") CALCULATED VERT. DEFL.(TL) = L/999 (0.18") CSI: TC=0.50/1.00 (C-D-1), BC=0.44/1.00 (J-K-1), WB=0.90/1.00 (G-J-1), SS=0.35/1.00 (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 = 1.00 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) (PUJ) MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.88 (F) (INPUT = 0.90) JSI METAL= 0.59 (G) (INPUT = 1.00)	
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MHP 23022

