

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 GRAV/4+n MT20 2.0 4.0

7	NINGS						
	FACTORED		MAXIMUM FACTORED			INPUT	REQRD
	GROSS R	EACTION	GROSS REACTION			BRG	BRG
Т	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
	337	0	337	0	0	5-8	1-8
)	93	0	93	0	0	1-8	1-8
)	17	0	19	0	0	1-8	1-8

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

UNF	ACTORED RE.	ACTIONS				
	1ST LCASE	MAX./	MIN. COMPO	NENT REACTION	4S	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEA
E	233	184 / 0	0/0	0/0	0/0	49 / 0
l c	64	54 / 0	0/0	0/0	0/0	9/0

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)

	RDS				WE			
MAX. FACTORED		FACTORED		MAX. FACTORED				
MEMB.	FORCE	VERT, LOAD LC	1 MAX	MAX.	MEMB.	FORCE	MAX	
	(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	CSI (LC)	
FR-TO		FROM TO		LENGTH	FR-TO			
E-B	-316 / 0		0.01(4)					
A-B	0 / 36	-119.4 -119.4	0.16(1)	10.00				
B-C	-14 / 0	-119.4 -119.4	0.09(1)	6.25				
E-D	0/0	-18.2 -18.2	0.02(4)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

PATTERN-LOADING CHECK APPLIED TO THIS TRUSS.

DESIGN CRITERIA									
SPEC	IFIED	LOAI	os:						
TOP	CH.	LL	=	34.8	PSF				
		DL	=	6.0	PSF				
BOT	CH.	LL	=	0.0	PSF				
		DL	=	7.3	PSF				
TOTA	L LO	AD	=	48.1	PSF				

SPACING = 24.0 IN. C/C

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

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

SOIL 0/0 0/0 0/0

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=0.16/1.00 (A-B:1) , BC=0.02/1.00 (D-E:4) , WB=0.00/1.00 (n/a:0) , SSI=0.11/1.00 (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.

PLATE PLACEMENT TOL. = 0.250 inches

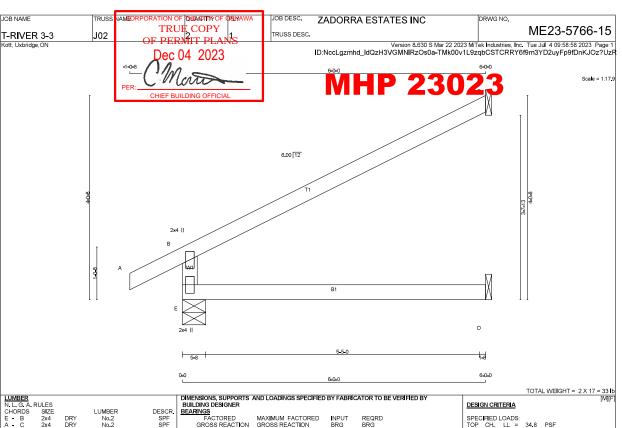
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (B) (INPUT = 0.90) JSI METAL= 0.13 (B) (INPUT = 1.00)



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incorporation of component is responsibility of building designer - not trust designer. Bracing shown is for lateral support of lateral support of the story. 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





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

DRY: SEASONED LUMBER.

PLATES (table is in inches) JT TYPE PLATES W LEN Y 2.0 4.0 2.0 4.0 B TMV+p E BMV1+p

	FACTORED					INPUT	REQRD
	GROSS R	EACTION	GROSS REACTION			BRG	BRG
Γ	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
	645	0	645	0	0	5-8	1-8
	269	0	269	0	0	1-8	1-8
	45	0	50	0	0	1-8	1-8

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

UNFACTORED REACTIONS

	1ST LCASE	WAX./I	MIN. COMPO	NENT REACTION	4S		
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	448	338 / 0	0/0	0/0	0/0	110 / 0	0/0
C	184	157 / 0	0/0	0/0	0/0	27 / 0	0/0
D	36	0/0	0/0	0/0	0/0	36 / 0	0/0
1							

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: (4)

СН	CHORDS				WEBS			
MAX	FACTORED	FACTORED				MAX. FACTO	RED	
MEMB.	FORCE	VERT, LOAD LC	1 MAX	MAX.	MEMB.	FORCE	MAX	
	(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	CSI (LC)	
FR-TO		FROM TO		LENGTH	FR-TO			
E-B	-580 / 0	0.0 0.0	0.12(4)	7.81				
A-B	0 / 30	-119.4 -119.4	0.10(1)	10.00				
B-C	-40 / 0	119.4 -119.4	0.56 (1)	6.25				
E-D	0/0	-18.2 -18.2	0.14 (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				
TOTA	L LO	AD	=	48,1	PSF				

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 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 (0.20")
CALCULATED VERT. DEFL.(LL)= L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL)= L/999 (0.03")

CSI: TC=0.56/1.00 (B-C:1) , BC=0.14/1.00 (D-E:4) , WB=0.00/1.00 (n/a:0) , SSI=0.31/1.00 (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.

PLATE PLACEMENT TOL. = 0.250 inches

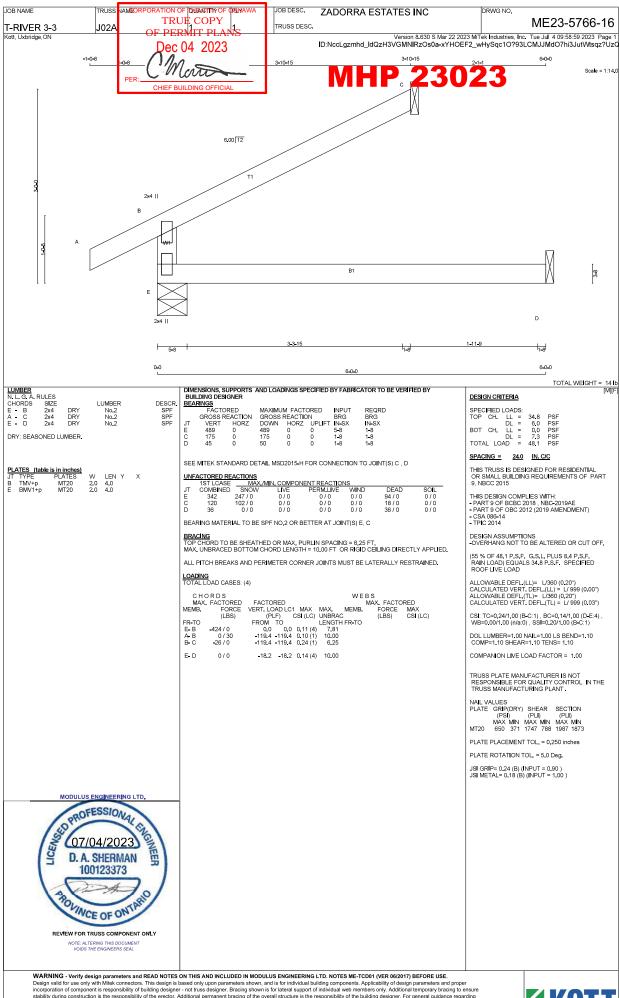
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.32 (B) (INPUT = 0.90) JSI METAL= 0.24 (B) (INPUT = 1.00)



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incorporation of component is responsibility of building designer - not trus designer. Bracing shown is for lateral support of the property parameters 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



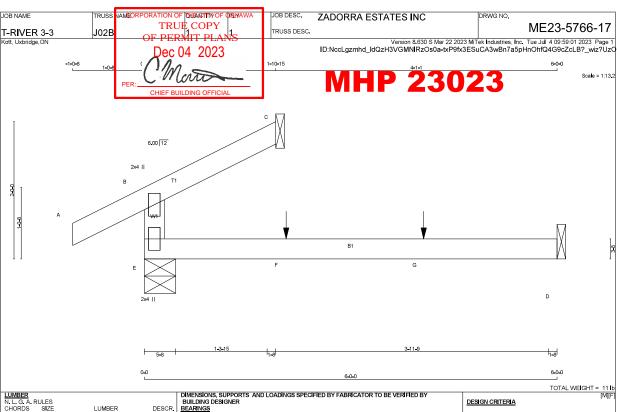


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TPIC Appendix G - Minimum quality Manufacturing Criteria available from www.tpic.ca and BCSI-CANADA (Building Component Safety Information) available from TPI, 781 N. Lee

Street, Suite 312, Alexandric, V. 92-2314 or www.sbcindustry.com





ľ	LUMBER								
ı	N. L. G. A. I	RULES							
ı	CHORDS	SIZE		LUMBER	DESCR.				
ı	E - B	2x4	DRY	No.2	SPF				
ı	Ā - C	2x4	DRY	No.2	SPF				
ı	F D	2x4	DRY		SPF				
ı									
1	DRY: SEASONED LUMBER.								
	E - D	2x4 2x4	DRY DRY	No.2 No.2					

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN Y	Х
В	TMV+p	MT20	2.0	4.0	
Е	BMV1+p	MT20	2.0	4.0	

DEA	BEARINGS											
	FACTORED		MAXIMUM FACTORED			INPUT	REQRD					
	GROSS R	EACTION	GROSS REACTION			BRG	BRG					
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX					
E	370	0	370	0	0	5-8	1-8					
С	86	0	86	0	0	1-8	1-8					
D	79	0	79	0	0	1-8	1-8					

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

UNF	UNFACTORED REACTIONS										
	1ST LCASE	MAX./	MAX,/MIN, COMPONENT REACTIONS								
JT F	COMBINED	SNOW	LIVE	PERM.LIVE	WIND						
E	260	179 / 0	0/0	0/0	0/0						
l c	59	50 / 0	0/0	0/0	0/0						
D	59	20/0	0/0	0/0	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.

DEAD 82 / 0 9 / 0 39 / 0

SOIL 0/0 0/0 0/0

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

LOADING TOTAL LOAD CASES: (4)

Сн	ORDS				WE	BS		
MAX	. FACTORED	FACTORED				MAX. FACT	ORED	
MEMB.	FORCE	VERT. LOAD L	C1 MAX	MAX.	MEMB.	FORCE	MAX	į.
	(LBS)	(PLF)	CSI (LC)	UNBRA		(LBS)	CSI	(LC)
FR-TO		FROM TO		LENGTH	H FR-TO			
E-B	-274 / 0	0.0 0	0 0.12 (4	7.81				
A-B	0 / 30	-119.4 -119	4 0.10 (1)	10.00				
B-C	-13 / 0	-119.4 -119	4 0.06 (1)	6.25				
	0.10	40.0 40	0 0 40 (4	40.00				
E-F	0/0	-18.2 -18						
F-G	0/0	-18.2 -18	.2 0.16 (1)	10.00				
G-D	0/0	-18.2 -18	2 0.16 (1	10.00				
FACTOR	DED CONCENT	RATED LOADS	(LDC)					
FACTOR		KATED LOADS		405	DID.	TVDE	ueer	0011

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:										
TOP	CH.	LL	=	34.8	PSF					
		DL	=	6.0	PSF					
BOT	CH.	LL	=	0.0	PSF					
		DL	=	7.3	PSF					
TOTA	L LO	AD	=	48,1	PSF					

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 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 (0.20")
CALCULATED VERT. DEFL.(LL)= L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL)= L/999 (0.06")

CSI: TC=0.12/1.00 (B-E:4) , BC=0.16/1.00 (D-E:1) , WB=0.00/1.00 (n/a:0) , SSI=0.10/1.00 (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.

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (B) (INPUT = 0.90) JSI METAL= 0.11 (B) (INPUT = 1.00)



REVIEW FOR TRUSS COMPONENT ONLY

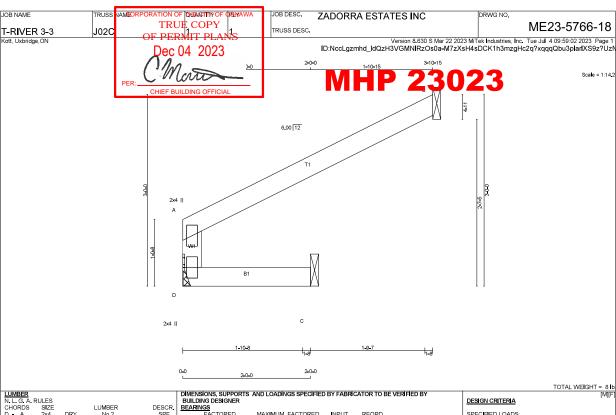
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LUMBER
N. L. G. A. RULES
CHORDS SIZE
D - A 2x4
A - B 2x4
D - C 2x4 LUMBER No.2 No.2 No.2 DRY DRY DRY DRY: SEASONED LUMBER.

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

	NINGS						
	FACTORED		MAXIMU	M FACT	INPUT	REQRD	
	GROSS R	EACTION	GROSS	REACTIO	BRG	BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
D	224	0	224	0	0	MECHAN	IICAL
В	204	0	204	0	0	1-8	1-8
С	75	0	75	0	0	1-8	1-8

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 1-8.

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

UNFACTORED REACTIONS

1ST LCASE MAX./MIN. COMPONENT REACTIONS

DEPM 1 N/E DEP

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
D	155	120 / 0	0/0	0/0	0/0	36 / 0	0/0
В	140	119/0	0/0	0/0	0/0	21/0	0/0
С	54	34/0	0/0	0/0	0/0	20 / 0	0/0

BRACING
TOP CHORD TO BE SHEATHED OR MAX, PURLIN SPACING = 6,25 FT.
MAX, UNBRACED BOTTOM CHORD LENGTH = 10,00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING TOTAL LOAD CASES: (4)

		RDS		WEBS			
ı	MAX.	FACTORED	FACTORED	N	MAX, FACTORED		
ı	MEMB.	FORCE	VERT, LOAD LC1 MA	X MAX, MEMB.	FORCE MAX		
ı		(LBS)	(PLF) CSI (L	C) UNBRAC	(LBS) CSI (LC)		
ı	FR-TO		FROM TO	LENGTH FR-TO			
ı	D-A A-B	-263 / 0	0.0 0.0 0.13	(1) 7.81			
ı	A-B	-13 / 0	-119.4 -119.4 0.22	(1) 6.25			
ı							
ı	D-C	0/0	-18.2 -18.2 0.16	(1) 10.00			

DESIGN CRITERIA

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- 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 (0.19")
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=0.22/1.00 (A-B:1) , BC=0.16/1.00 (C-D:1) , WB=0.00/1.00 (n/a:0) , SSI=0.18/1.00 (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.

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (A) (INPUT = 0.90) JSI METAL= 0.11 (A) (INPUT = 1.00)

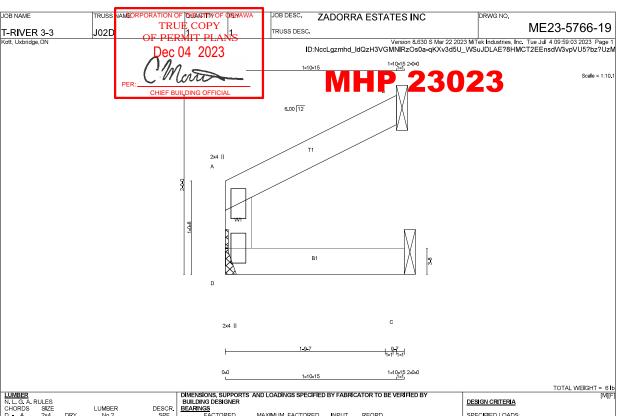


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LUMBER
N. L. G. A. RULES
CHORDS SIZE
D - A 2x4
A - B 2x4
D - C 2x4 LUMBER No.2 No.2 No.2 DRY DRY DRY

DRY: SEASONED LUMBER.

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

	FACTORED		MAXIMU	M FACT	INPUT	REQRD	
	GROSS R	EACTION	GROSS	REACTIO	N	BRG	BRG
JΤ	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
D	133	0	133	0	0	MECHAN	NICAL
В	106	0	106	0	0	1-8	1-8
С	26	0	26	0	0	1-8	1-8

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 1-8.

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) B . C

UNFACTORED REACTIONS

1	ST LCASE	MAX./N	MAX./MIN. COMPONENT REACTIONS						
JT C	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
D	93	67 / 0	0/0	0/0	0/0	26 / 0	0/0		
В	73	61/0	0/0	0/0	0/0	12 / 0	0/0		
l c	20	5/0	0/0	0/0	0/0	14 / 0	0/0		

BRACING
TOP CHORD TO BE SHEATHED OR MAX, PURLIN SPACING = 10,00 FT.
MAX, UNBRACED BOTTOM CHORD LENGTH = 10,00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING TOTAL LOAD CASES: (4)

Сн	ORDS			WEBS			
MAX	FACTORED	FACTORED			MAX, FACTO	RED	
MEMB.	FORCE	VERT, LOAD LC1	MAX	MAX. MEMB.	. FORCE	MAX	
	(LBS)	(PLF) C	SI (LC)	UNBRAC	(LBS)	CSI (LC)	
FR-TO		FROM TO		LENGTH FR-TO			
D-A	-122 / 0	0.0 0.0	0.02(1)	7.81			
A-B	-4/0	119.4 -119.4	0.05 (1)	10.00			
D-C	0/0	-18.2 -18.2	0.03(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						
TOTA	1 10	۸D	_	10 1	Det						

SPACING = 24.0 IN. C/C

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- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-114
- 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 (0.19")
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=0.05/1.00 (A-B:1) , BC=0.03/1.00 (C-D:1) , 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.

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.07 (A) (INPUT = 0.90) JSI METAL= 0.05 (A) (INPUT = 1.00)



REVIEW FOR TRUSS COMPONENT ONLY

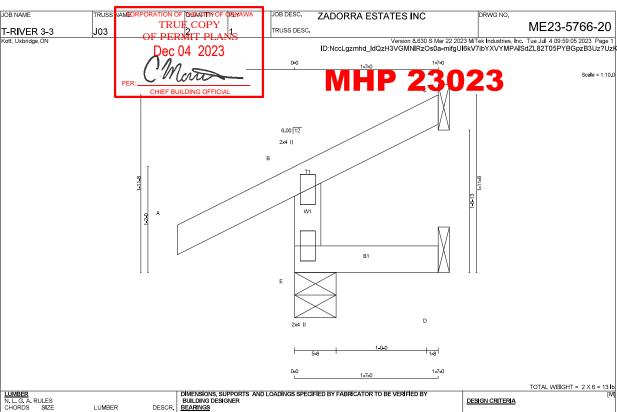
NOTE: ALTERING THIS DOCUMENT VOIDS THE ENGINEERS SEAL

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED IN MODULUS ENGINEERING LTD. NOTES ME-TCD01 (VER 06/2017) BEFORE USE.
Design valid for use only with Mittek 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 trus designer. Bracing shown is for lateral support of lateral suppor labrication, quality control, storage, delivery, erection and bracing, consult

TPIC Appendix G - Minimum quality Manufacturing Criteria available from www.tpic.ca and BCSI-CANADA (Building Component Safety Information) available from TPI, 781 N. Lee

Street, Suite 312, Alexandric, V. 92-2314 or www.sbcindustry.com

KOT'



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

W LEN Y X 2.0 4.0 2.0 4.0 B TMV+p E BMV1+p

	FACTORED		MAXIMUM FACTORED			INPUT	REQRD
	GROSS R	EACTION	GROSS	REACTIO	N	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
E	340	0	340	0	0	5-8	1-8
С	40	0	40	0	-4 0	1-8	1-8
D	0	0	13	0	-11	1-8	1-8

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

UNFACTORED REACTIONS

l	IOI LUAGE	IVIAA./I	VIIIN. COIVIPOI	VEIVI REACTION	VO		
JT	COMBINED	SNOW	LIVE	PERMLIVE	WIND	DEAD	SOIL
E	234	190 / 0	0/0	0/0	0/0	44 / 0	0/0
C	28	23 / -28	0/0	0/0	0/0	5/0	0/0
Ğ	0	0 / -12	0/0	0/0	0/0	9/0	0/0

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

BRACINS
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)

	R D S FACTORED	FACTORED			WE	BS MAX. FACTOR	RED
MEMB.	FORCE	VERT, LOAD LC	1 MAX	MAX. N	MEMB.	FORCE	MAX
	(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	CSI (LC)
FR-TO		FROM TO		LENGTH F	R-TO		
E-B	-311 / 0	0.0 0.0	0.05 (5)	7.81			
A− B	0 / 36	119.4 -119.4	0.16(1)	10,00			
B-C	-24 / 0	119.4 -119.4	0.12(1)	6.25			
E- D	0/0	-18.2 -18.2	0.05 (5)	10,00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

PATTERN-LOADING CHECK APPLIED TO THIS TRUSS.

DESIGN CRITERIA

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 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=0.16/1.00 (A-B:1) , BC=0.05/1.00 (D-E:5) , WB=0.00/1.00 (n/a:0) , SSI=0.11/1.00 (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.

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (B) (INPUT = 0.90) JSI METAL= 0.13 (B) (INPUT = 1.00)



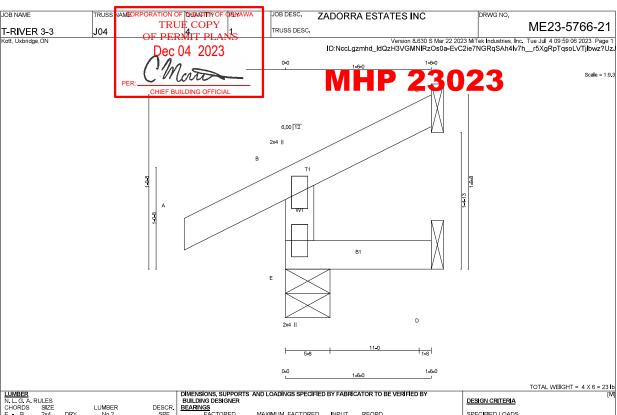
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incorporation of component is responsibility of building designer - not trust designer. Bracing shown is for lateral support of lateral support of the story. Additional temporary bracing to ensure
stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer - for general guidance regarding labrication, quality control, storage, delivery, erection and bracing, consult

TPIC Appendix G - Minimum quality Manufacturing Criteria available from www.tpic.ca and BCSI-CANADA (Building Component Safety Information) available from TPI, 781 N. Lee

Street, Suite 312, Alexandric, V. 92-2314 or www.sbcindustry.com

KOT1



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

DRY: SEASONED LUMBER.

PLATES (table is in inches) W LEN Y X 2.0 4.0 2.0 4.0 B TMV+p E BMV1+p

	FACTO			M FACTO		INPUT	REQRD
	GROSS F	EACTION	GROSS	REACTIO	N	BRG	BRG
Т	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
	284	0	284	0	0	5-8	1-8
:	50	0	50	0	-25	1-8	1-8
)	4	0	13	0	-6	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

ı	IOI LUAGE	IVIAA./I	VIIIN. COIVIPOI	NEINT REACTION	vo		
JT	COMBINED	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
Ē	196	158 / 0	0/0	0/0	0/0	38 / 0	0/0
C	35	29 / -19	0/0	0/0	0/0	6/0	0/0
Ď	4	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

BRACINS
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)

	R D S FACTORED	FACTO	RED			WE	BS MAX, FACTO	RED
MEMB.	FORCE	VERT, LC	AD LC1	MAX	MAX.	MEMB.	FORCE	MAX
	(LBS)	(PL	.F) (CSI (LC)	UNBRAC		(LBS)	CSI (LC)
FR-TO		FROM	TO		LENGTH	FR-TO		
E-B	-261 / 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										
SPEC	IFIED	LOA	os:							
TOP	CH.	LL	=	34.8	PSF					
		DL	=	6.0	PSF					
BOT	CH.	LL	=	0.0	PSF					
		DL	=	7.3	PSF					
TOTA	L LO	AD	=	48,1	PSF					

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH: - PART 9 OF BCBC 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.

PLATE PLACEMENT TOL. = 0.250 inches

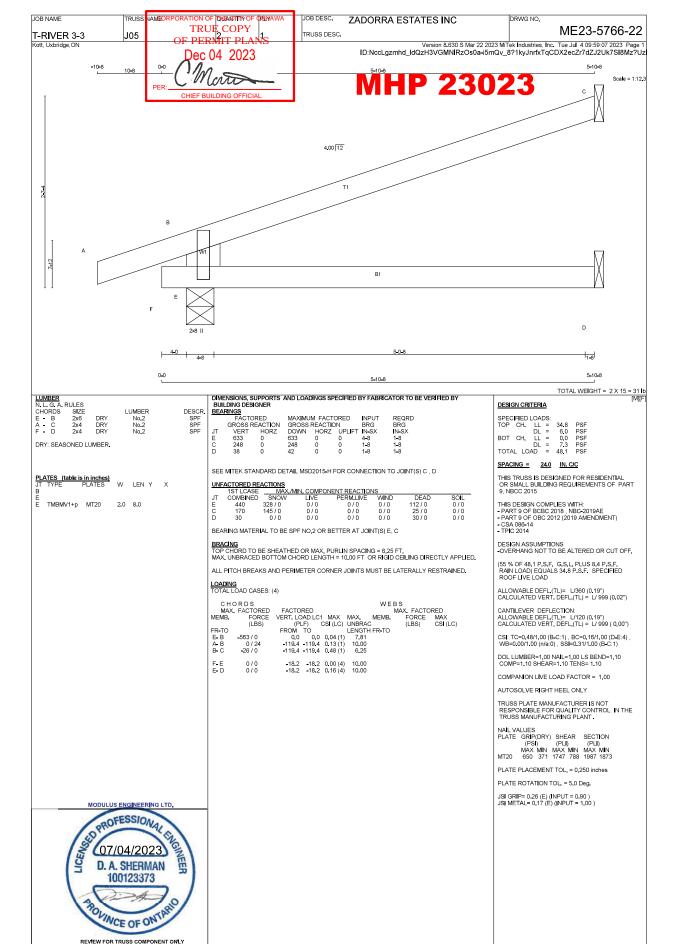
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (B) (INPUT = 0.90) JSI METAL= 0.11 (B) (INPUT = 1.00)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED IN MODULUS ENGINEERING LTD. NOTES ME-TCD01 (VER 06/2017) BEFORE USE.
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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

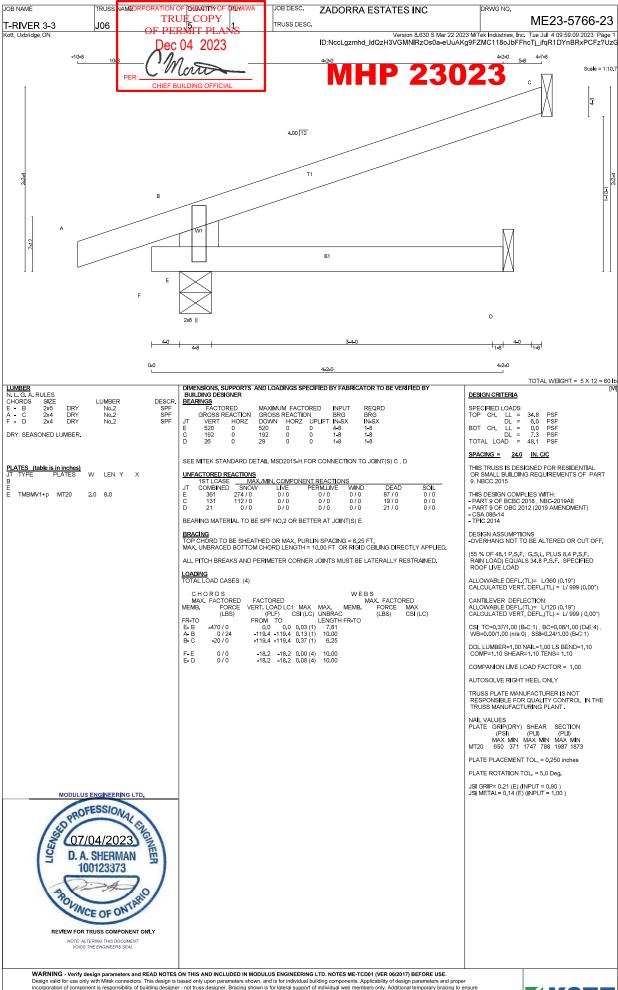




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED IN MODULUS ENGINEERING LTD. NOTES ME-TCD01 (VER 06/2017) BEFORE USE.
Design valid for use only with Milet connectors. This design is based only use parameters shown, and is for individual building components. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not trust designer. Bracing shown is for Individual building designer on individual 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 of Interface available from www.tpic.ca and BCSI-CANADA (Building Component Safety Information) available from TPI, 781 N. Lee
Street, Suids 312, Alexandria, VA, 22314 or www.sbicndustry.com

NOTE: ALTERING THIS DOCUMENT VOIDS THE ENGINEERS SEAL

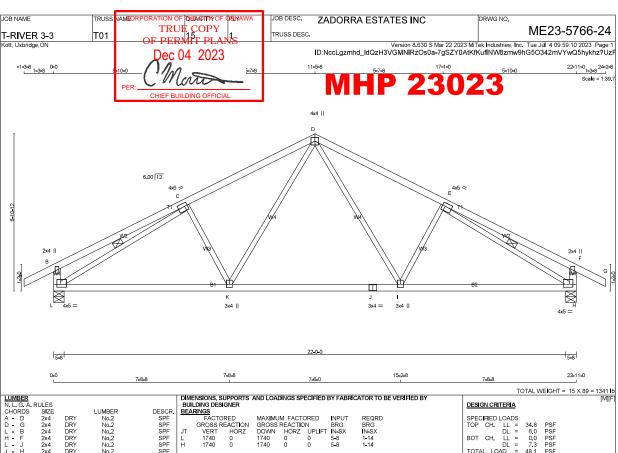




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED IN MODULUS ENGINEERING LTD. NOTES ME-TCD01 (VER 06/2017) BEFORE USE.

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 fuse designer. Brancing shown is for lateral support of individual web members only. Additional reportance to result in the properties of the component of the componen





LUMBER
N. L. G. A. RULES
CHORDS SIZE
A - D 2x4
D - G 2x4
L - B 2x4
H - F 2x4
J - H 2x4 LUMBER No.2 No.2 No.2 No.2 No.2 No.2 DESCR. SPF SPF SPF SPF SPF SPF DRY DRY DRY DRY DRY DRY DRY ALL WEBS 2x3 EXCEPT

DRY: SEASONED LUMBER.

PLATES (table LEN Y X 4.0 5.0 1.75 1.50 4.0 1.75 1.50 4.0 1.75 1.50 5.0 1.50 1.75 4.0 1.75 1.50 4.0 1.75 1.50 5.0 1.50 1.75 W 2.0 4.0 4.0 2.0 4.0 3.0 3.0 3.0 4.0 TYPE TMV+p TMWW-t TMWW-t TTWW+p TMWW-t TMV+p BMWW1-t BMWW+t BS-t BMWW+t BMWW1-t

UNFACTORED REACTIONS

	IST LUASE	IVIAA./I	VIIIV. COIVIFOI				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	1213	892 / 0	0/0	0/0	0/0	321 / 0	0/0
Н	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

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 C-L, E-H,

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)

l							
l сн	ORDS				W E	BS	
MA)	K. FACTORED	FACTORED				MAX. FACTO	RED
MEMB.	FORCE	VERT, LOAD LO	1 MAX	MAX.	MEMB,	. FORCE	MAX
	(LBS)	(PLF)				(LBS)	CSI (LC)
FR-TO		FROM TO		LENGTH	I FR-TO		
A-B	0 / 36	119.4 -119.4	4 0.16 (1)	10.00	D-I	0/679	0.15(1)
B-C	0 / 36	119.4 -119.4					0.15(1)
C-D	- 1939 / 0	119.4 -119.4				0 / 679	0,15(1)
D-E	-1939 / 0	119.4 - 119.4	4 0.56 (1)	4.20	C-K	- 497 / 0	0.15(1)
E-F	0 / 36	119.4 -119.4	4 0.63 (1)	10.00	L-C	-2308 / 0	0.72(1)
F-G	0 / 36	119.4 -119.4	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 -18.3					
K-J	0 / 1367	-18.2 -18.2	2 0.34 (1)	10.00			
J-I	0 / 1367	-18.2 -18.2	2 0.34 (1)	10.00			
I I- H	0 / 1936	-18.2 -18.3	2 0 44 (1)	10.00			

SPEC	IFIED	LOAI	os:		
TOP	CH.	LL	=	34.8	PSF
		DL	=	6.0	PSF
BOT	CH.	LL	=	0.0	PSF
		DL	=	7.3	PSF
TOTA	L LO.	AD	=	48,1	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (H-I:1) , WB=0.72/1.00 (C-L:1) , SSI=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.

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

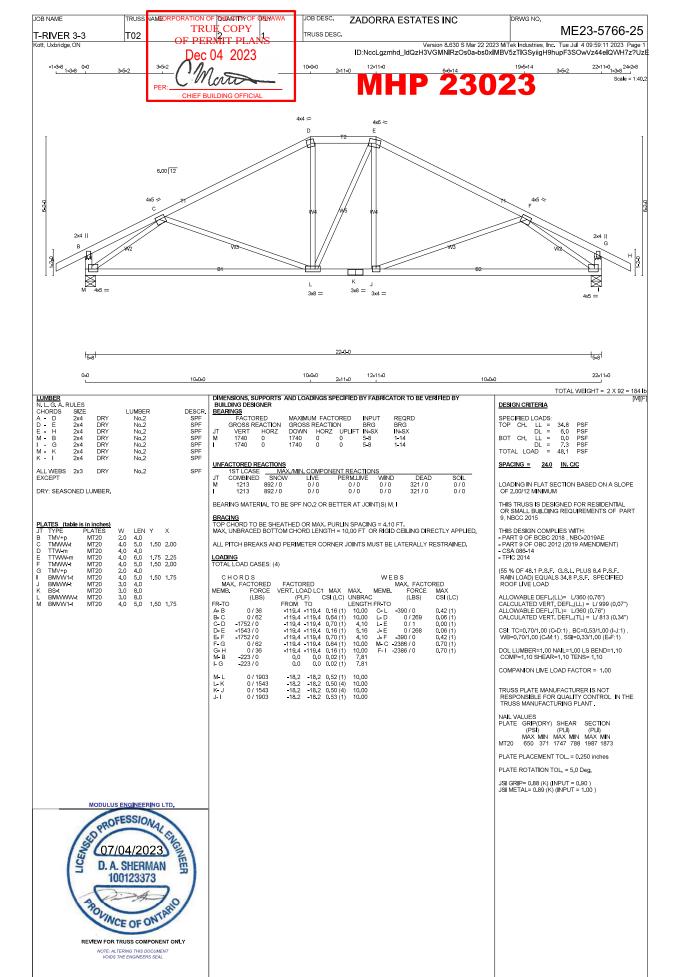
PROFESSIONAL HILL OT/04/2023 100123373 ROVINCE OF ONTARIO

REVIEW FOR TRUSS COMPONENT ONLY

NOTE: ALTERING THIS DOCUMENT VOIDS THE ENGINEERS SEAL

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incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of lateral suppor

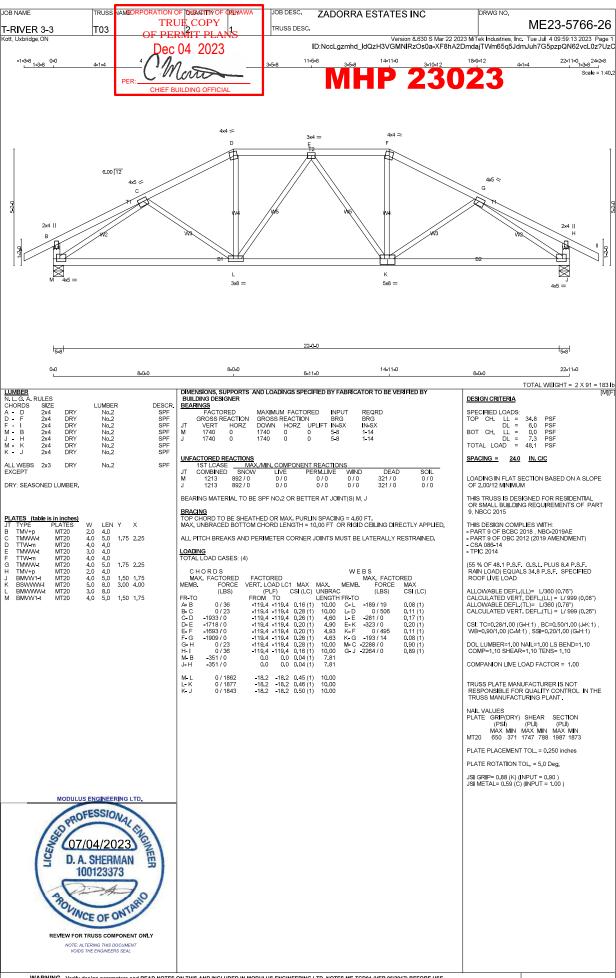




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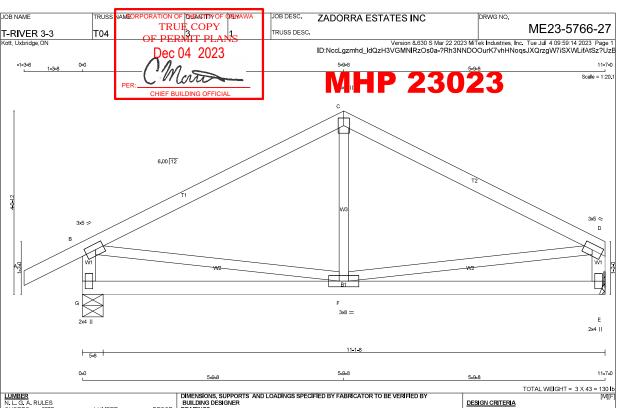
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KOTT



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N. L. G. A. RULES
CHORDS SIZE
A - C 2x4
C - D 2x4
G - B 2x4
E - D 2x4
G - E 2x4 LUMBER 2100F 1.8E 2100F 1.8E No.2 DESCR. SPF SPF SPF SPF SPF DRY DRY DRY DRY DRY DRY No.2 No.2 ALL WEBS 2x3 EXCEPT No.2

W IEN V

DRY: SEASONED LUMBER.

PLATES (table is in inches)

	TMVW-t	MT20	3.0	5.0	1.50	2.25
С	TTW+p	MT20	3.0	4.0		
D	TMVW-t	MT20	3.0	5.0	1.50	2,25
Ε	BMV1+p	MT20	2.0	4.0		
F	BMWWW-t	MT20	3.0	8.0		
G	BMV1+p	MT20	2.0	4.0		

<u>BEA</u>	RINGS						
	FACTO	RED	MAXIMU	M FACTO	INPUT	REQRD	
	GROSS R	EACTION	GROSS	REACTIC	N	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
G	959	0	959	0	0	5-8	1-8
E	797	0	797	0	0	MECHAN	ICAL

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT E. MINIMUM BEARING LENGTH AT JOINT E = 1-8.

UNFACTORED REACTIONS

ı		1ST LCASE	MAX./	MIN. COMPO	VENT REACTION	VS.		
ı	JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
ı	G	668	498 / 0	0/0	0/0	0/0	170 / 0	0/0
ı	E	557	403 / 0	0/0	0/0	0/0	154 / 0	0/0
ı								

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)

СН	ORDS					WE	BS	
MAX	. FACTORED	FACTORE	D				MAX. FACTO	RED
MEMB.	FORCE	VERT. LOAD	LC1	MAX	MAX.	MEMB.	FORCE	MAX
	(LBS)	(PLF)	(CSI (LC)	UNBRAC		(LBS)	CSI (LC)
FR-TO		FROM TO)		LENGTH	FR-TO		
A-B	0 / 36	119.4 11	19.4	0.10(1)	10.00	F-C	-59 / 91	0.03(4)
B-C	- 708 / 0	-119.4 -11	19.4	0.34(1)	6.25	B-F	0 / 640	0.14(1)
C-D	- 708 / 0	119.4 -11	19.4	0.34(1)	6,25	F-D	0 / 640	0.14(1)
G-B	- 918 / 0	0.0	0.0	0.09(1)	7,81			
E-D	- 756 / 0	0.0	0.0	0.08(1)	7.81			
G-F	0/0	18.2	18,2	0.17(4)	10,00			
F-E	0/0	18.2	18.2	0.17 (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 = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.39")
CALCULATED VERT. DEFL.(LL)= L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.39")
CALCULATED VERT. DEFL.(TL)= L/999 (0.03")

CSI: TC=0.34/1.00 (C-D:1) , BC=0.17/1.00 (F-G:4) , WB=0.14/1.00 (B-F:1) , SSI=0.24/1.00 (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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.81 (B) (INPUT = 0.90) JSI METAL= 0.27 (B) (INPUT = 1.00)



REVIEW FOR TRUSS COMPONENT ONLY

NOTE: ALTERING THIS DOCUMENT VOIDS THE ENGINEERS SEAL

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED IN MODULUS ENGINEERING LTD. NOTES ME-TCD01 (VER 06/2017) BEFORE USE.
Design valid for use only with Mittek 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 trus designer. Bracing shown is for lateral support of the property parameters 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

