

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

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

LOADING TOTAL LOAD CASES: (4)

CHORDS				WEBS					
MAX.	FACTORED	FACTORED				MAX. FACT	ORED		
MEMB.	FORCE	VERT. LOAD LC	MAX	MAX.	MEMB.	FORCE	MAX		
	(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	CSI (LC)	
FR-TO		FROM TO		LENGTH	FR-TO				
E-B	-294 / 0	0.0 0.0	0.11(1)	7.81					
A-B	0 / 45	119.4 -119.4	0.16(1)	10.00					
B-C	- 9 / 11	-119.4 -119.4	0.08 (4)	10.00					
E-F	0/0	18.2 -18.2	0.16(1)	10.00					
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	ED CONCENT	RATED LOADS (L	BS)						
	LOC. LC1			CE [OIR.	TYPE	HEEL	CONN	
	0.12 7		- FRO			TOTAL		C1	
	0 12 50					TOTAL		0.1	

CONNECTION REQUIREMENTS

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

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 (0.07")

CSI: TC=0.16/1.00 (A-B:1) , BC=0.16/1.00 (D-E:1) , 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.

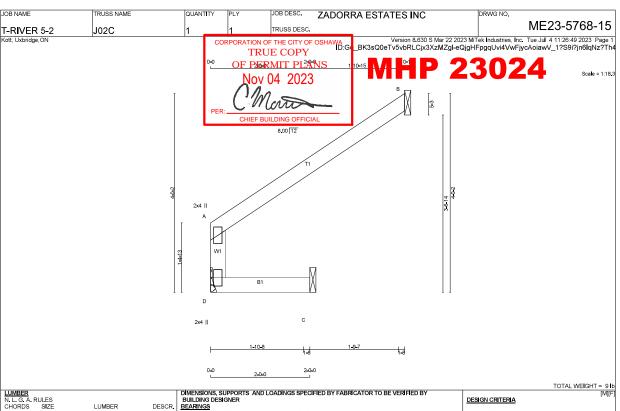
JSI GRIP= 0.18 (B) (INPUT = 0.90) JSI METAL= 0.15 (B) (INPUT = 1.00)



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

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
D - A 2x4
A - B 2x4
D - C 2x4 LUMBER No.2 No.2 No.2 DESCR. SPF SPF SPF DRY DRY DRY DRY: SEASONED LUMBER.

PL	ATES (table	is in inches)			
JT	TYPE	PLATES	W	LEN Y	×
Α	TMV+p	MT20	2.0	4.0	
D	RMV1+n	MT20	2.0	4.0	

	FACTORED		MAXIMUM FACTORED			INPUT	REQRD
	GROSS R	EACTION	GROSS	REACTIC	N	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
D	226	0	226	0	0	MECHAN	IICAL
В	206	0	206	0	0	1-8	1-8
С	71	0	71	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

JT COMBINED SNOW LIVE PERMILIVE WIND	DEAD	SOIL
D 157 121/0 0/0 0/0 0/0	36 / 0	0/0
B 141 120/0 0/0 0/0 0/0	21/0	0/0
C 51 31/0 0/0 0/0 0/0	19/0	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)

СНС	RDS			W	/EBS	
MAX.	FACTORED	FACTORED			MAX, FACTO	RED
MEMB.	FORCE	VERT, LOAD LC1	MAX	MAX, MEN	IB. FORCE	MAX
	(LBS)	(PLF)	CSI (LC)	UNBRAC	(LBS)	CSI (LC)
FR-TO		FROM TO		LENGTH FR-T	· · · ·	
D-A	-261 / 0	0.0 0.0	0.13(1)	7.81		
A-B	-15 / 0	119.4 -119.4	0.23(1)	6.25		
D-C	0/0	-18.2 -18.2	0.14(1)	10.00		

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

(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=0.23/1.00 (A-B:1) , BC=0.14/1.00 (C-D:1) , WB=0.00/1.00 (n/a:0) , SSI=0.17/1.00 (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= 0.16 (A) (INPUT = 0.90) JSI METAL= 0.13 (A) (INPUT = 1.00)



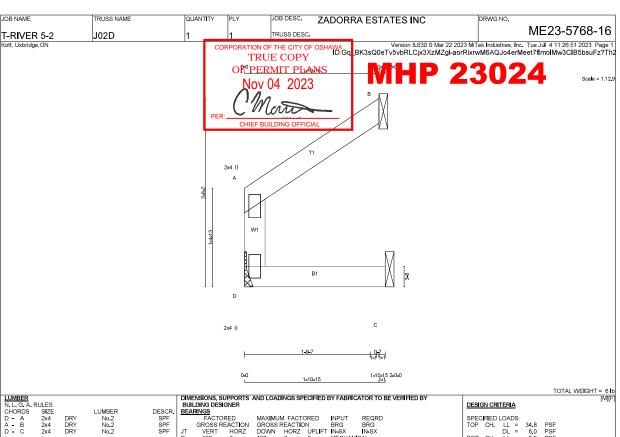
NOTE: ALTERING THIS DOCUMENT VOIDS THE ENGINEERS SEAL

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 properties 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 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 No.2 No.2 No.2 DESCR. SPF SPF SPF DRY DRY DRY DRY: SEASONED LUMBER.

PLATES (table is in inches)

W LEN Y X 2.0 4.0 2.0 4.0 A TMV+p D BMV1+p

	FACTO	RED	MAXIMU	M FACTO	INPUT	REQRE	
	GROSS R	EACTION	GROSS	REACTIO	BRG	BRG	
JΤ	VERT	HORZ	DOWN	HORZ	UPLIFT	N-SX	IN-SX
D	133	0	133	0	0	MECHAN	VICAL
В	107	0	107	0	0	1-8	1-8
С	25	0	25	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./N	IIN. COMPO	NENT REACTION	NS		
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
D	93	67/0	0/0	0/0	0/0	26 / 0	0/0
В	73	62/0	0/0	0/0	0/0	12 / 0	0/0
С	19	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		WEE	38	
MAX	FACTORED	FACTORED	1	MAX, FACTORED	
MEMB.	FORCE	VERT, LOAD LC1 MAX	MAX. MEMB.	FORCE MAX	
	(LBS)	(PLF) CSI (LC) UNBRAC	(LBS) CSI (LC)
FR-TO		FROM TO	LENGTH FR-TO		
D-A	-121 / 0	0.0 0.0 0.02 (
A-B	-4/0	-119.4 -119.4 0.05 (1) 10,00		
D-C	0/0	-18.2 -18.2 0.02 (1) 10.00		

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 086-114
- 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=0.02/1.00 (C-D:1) , WB=0.00/1.00 (n/a:0) , SSI=0.08/1.00 (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.

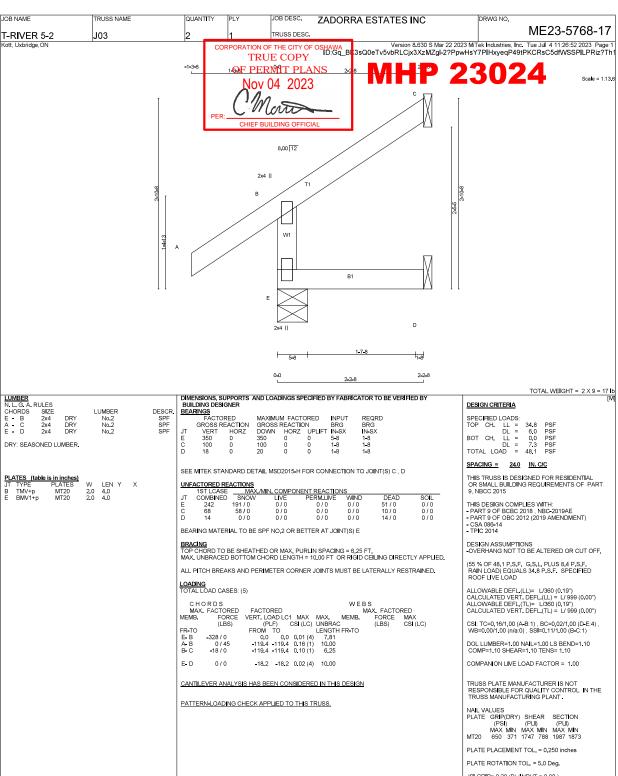
JSI GRIP= 0.07 (A) (INPUT = 0.90) JSI METAL= 0.06 (A) (INPUT = 1.00)



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

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



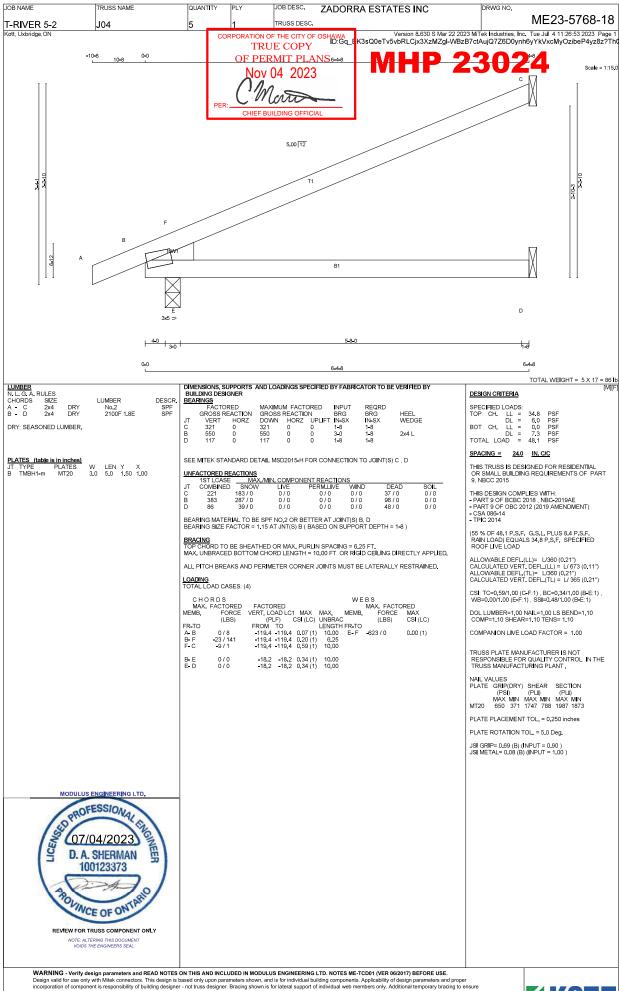


JSI GRIP= 0.20 (B) (INPUT = 0.90) JSI METAL= 0.17 (B) (INPUT = 1.00)

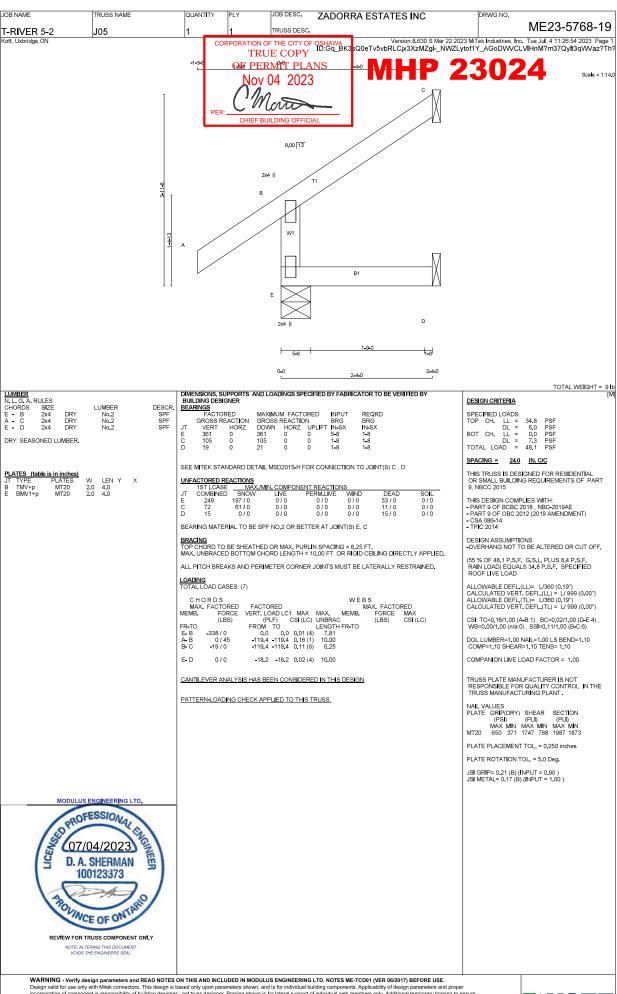


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Design valid for use only with Milek connectors. This design is based only upon parameters shown, and is for individual building components. Applicability of diesign parameters and proper incorporation of component is responsibility of building designer - not trues designer. Bracing shown is for lateral support of individual web members only. Additional reproperations to 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.tpic.ca and BCSI-CANADA (Building Component Safety Information) available from TPI, 781 N. Lee Street, Suite 312, Alexandria, V. 242314 or www.schodustry.com

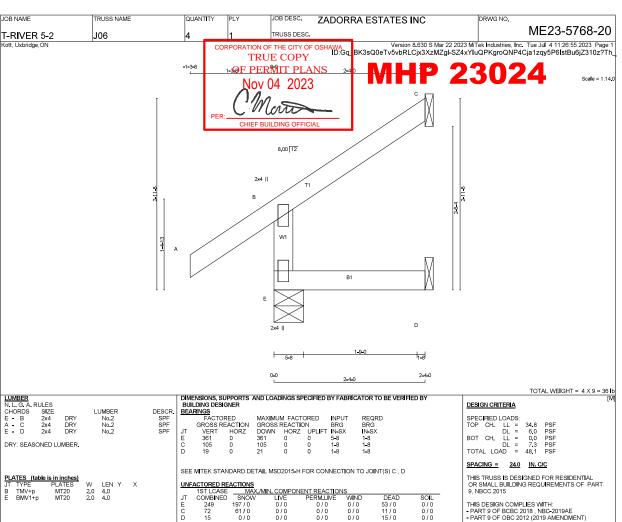








KOT1



197 / 0 61 / 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)

	RDS				WE			
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	-338 / 0		0.01(4)					
A-B	0 / 45	-119.4 -119.4	0.16(1)	10.00				
B-C	- 19 / 0	-119.4 -119.4	0.11 (6)	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.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (B) (INPUT = 0.90) JSI METAL= 0.17 (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.

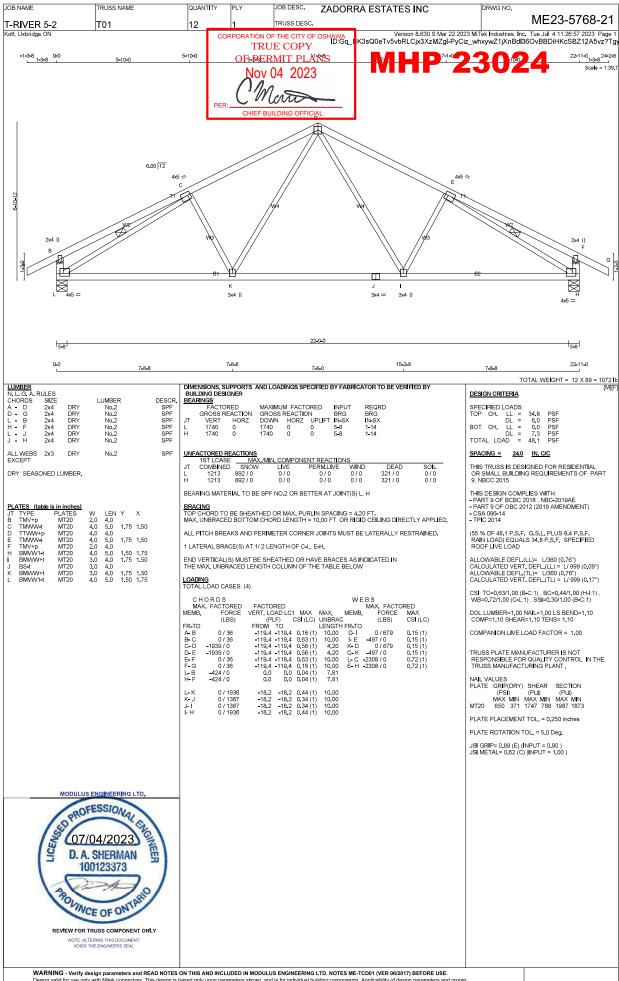
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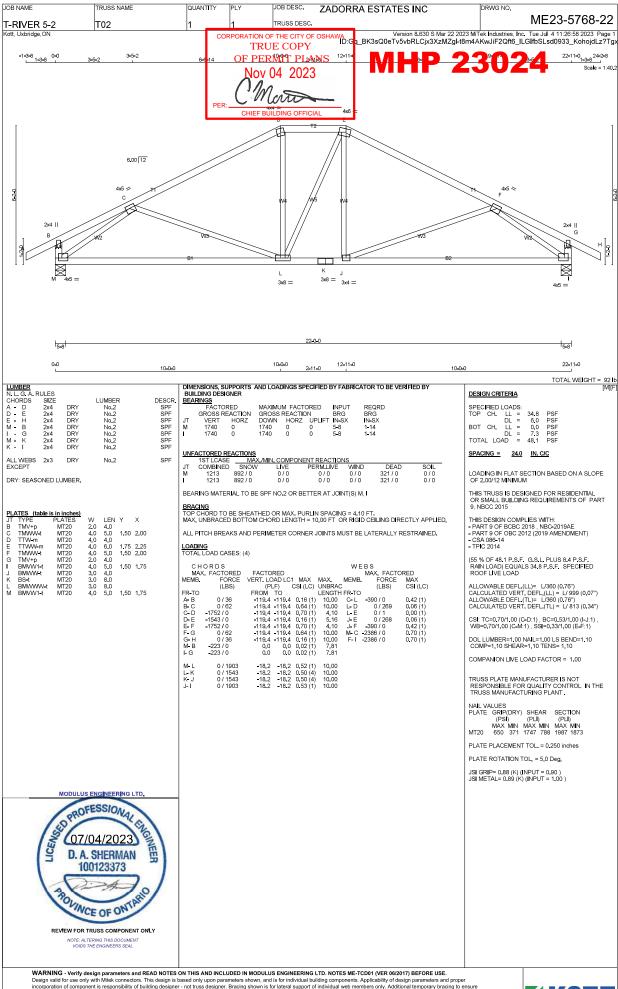
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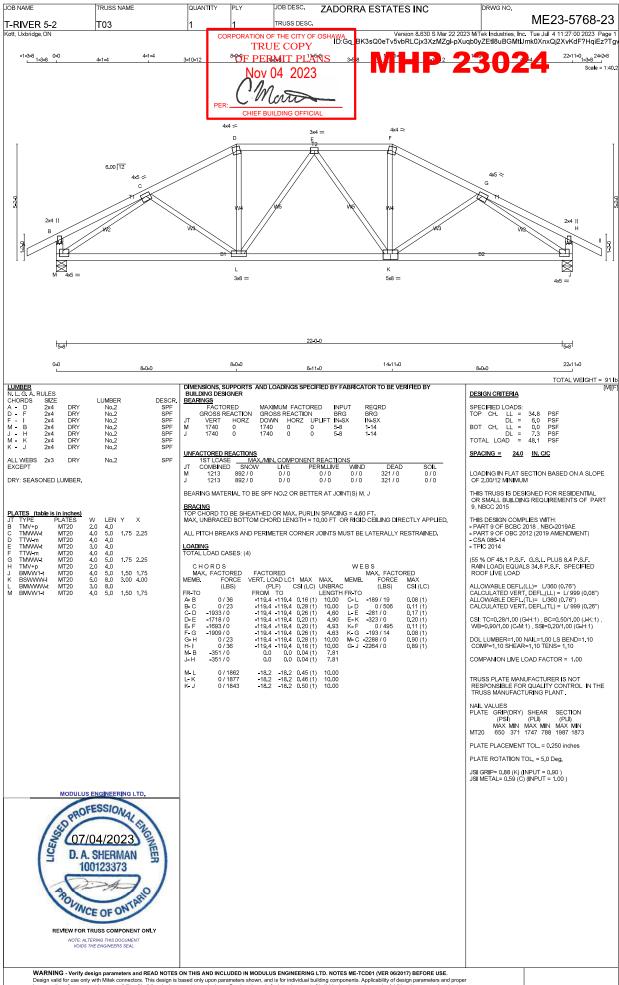
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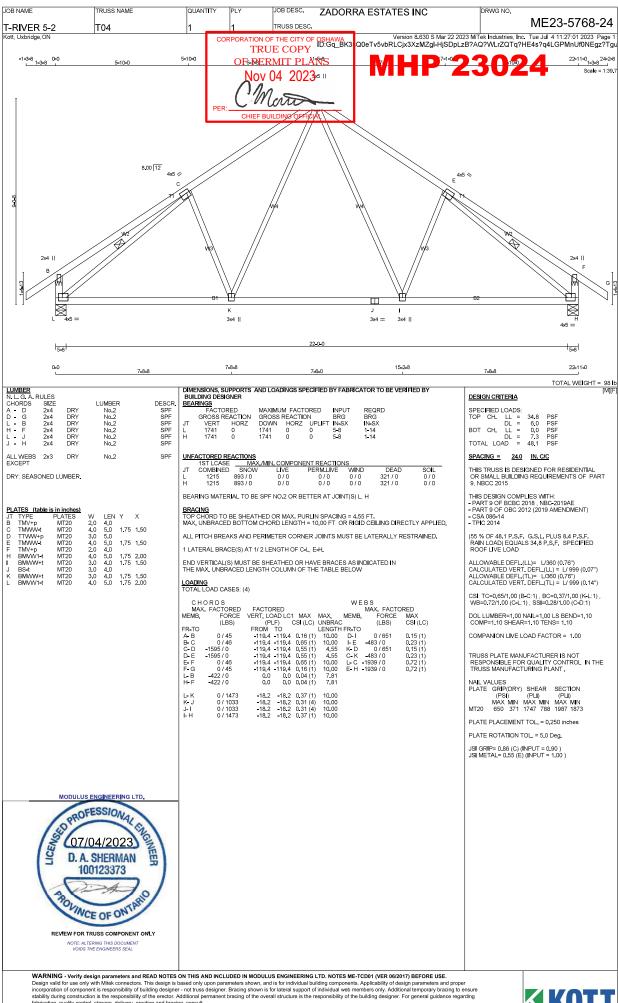






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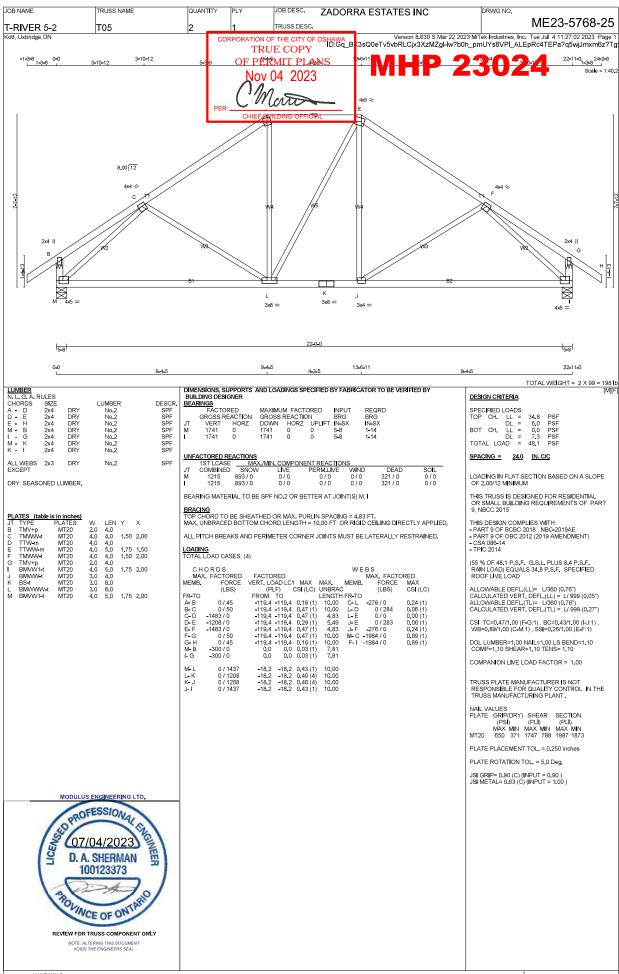


labrication, quality control, storage, delivery, erection and bracing, consult

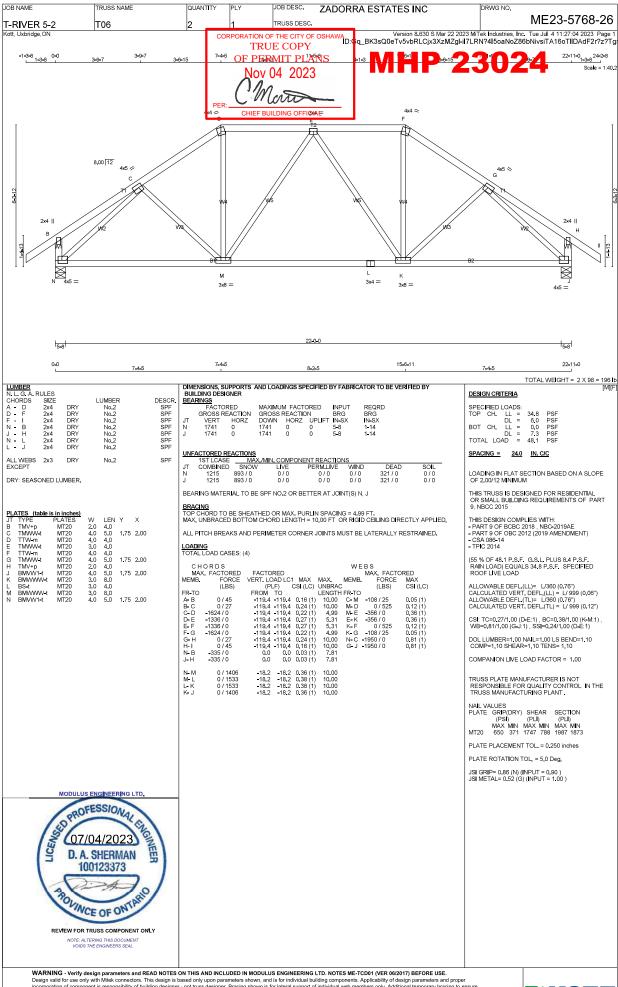
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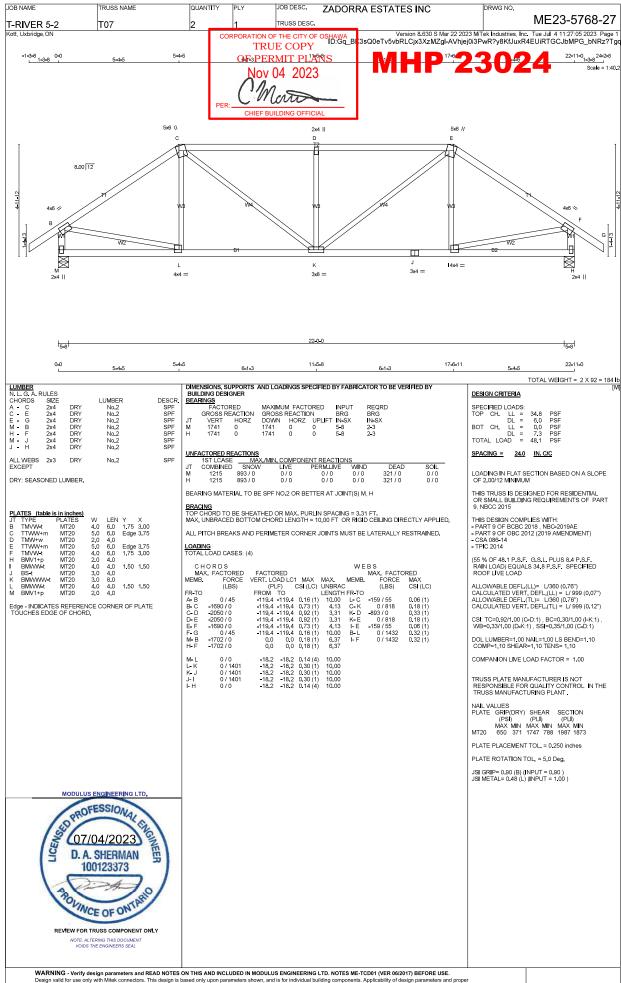
KOTT



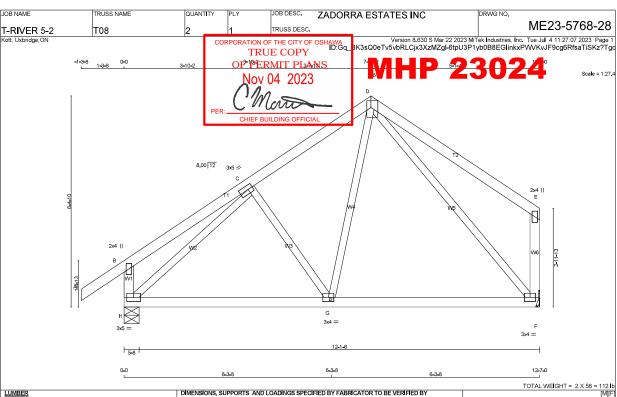








KOTT



<u>LUMBER</u>				
N. L. G. A. R	ULES			
CHORDS	SIZE		LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - E	2x4	DRY	No.2	SPF
H - B	2x4	DRY	No.2	SPF
F - E	2x4	DRY	No.2	SPF
H - F	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JΤ	TYPE	PLATES	W	LEN	Y X	
	TMV+p	MT20	2.0	4.0		
С	TMWW-t	MT20	3.0	5.0	1.50 1.75	
D	TTWW+p	MT20	4.0	6.0	Edge 2.50	
Е	TMV+p	MT20	2.0	4.0		
F	BMVW1-t	MT20	3.0	4.0		
G	BMV/VV-t	MT20	3.0	4.0		
Н	BMVW1-t	MT20	3.0	5.0		

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		MAXIMUM FACTORED			INPUT	REQRD
	GROSS REACTION		GROSS REACTION			BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
Н	1030	0	1030	0	0	5-8	1-8
F	866	0	866	0	0	MECHANI	CAL

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

UNFACTORED REACTIONS

	1ST LCASE	MAX./I	MIN. COMPO				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	717	534 / 0	0/0	0/0	0/0	184 / 0	0/0
F	605	438 / 0	0/0	0/0	0/0	167 / 0	0/0

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

L CHC	ORDS				WE	BS	
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		
A-B	0 / 45	119.4 119.4	0.16(1)	10.00	C-G	-293 / 0	0.09(1)
B-C	0 / 29	-119.4 -119.4	0.27(1)	10.00	G-D	0 / 387	0.09(1)
C-D	- 642 / 0	-119.4 -119.4				-943 / 0	0.40(1)
D-E	0/0	119.4 -119.4	0.53 (1)		D-F	- 675 / 0	0,82(1)
H-B	-334 / 0		0.03 (1)				
F-E	-305 / 0	0.0 0.0	0.05 (1)	7.81			
H-G	0 / 681	-18.2 -18.2	0.25 (4)	10.00			
G-F	0 / 435	-18.2 -18.2	0.24(4)	10.00			

DESIGN CRITERIA

SPECIFIED	LOADS	š:	
TOP CH.	LL =	34.8	PSF
	DL =	6.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.3	PSF
TOTAL LO	DAD =	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 (0.42")
CALCULATED VERT. DEFL.(LL)= L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.42")
CALCULATED VERT. DEFL.(TL)= L/999 (0.05")

CSI: TC=0.53/1.00 (D-E:1) , BC=0.25/1.00 (G-H:4) , WB=0.82/1.00 (D-F:1) , SSI=0.20/1.00 (D-E: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 (H) (INPUT = 0.90) JSI METAL= 0.26 (C) (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 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

