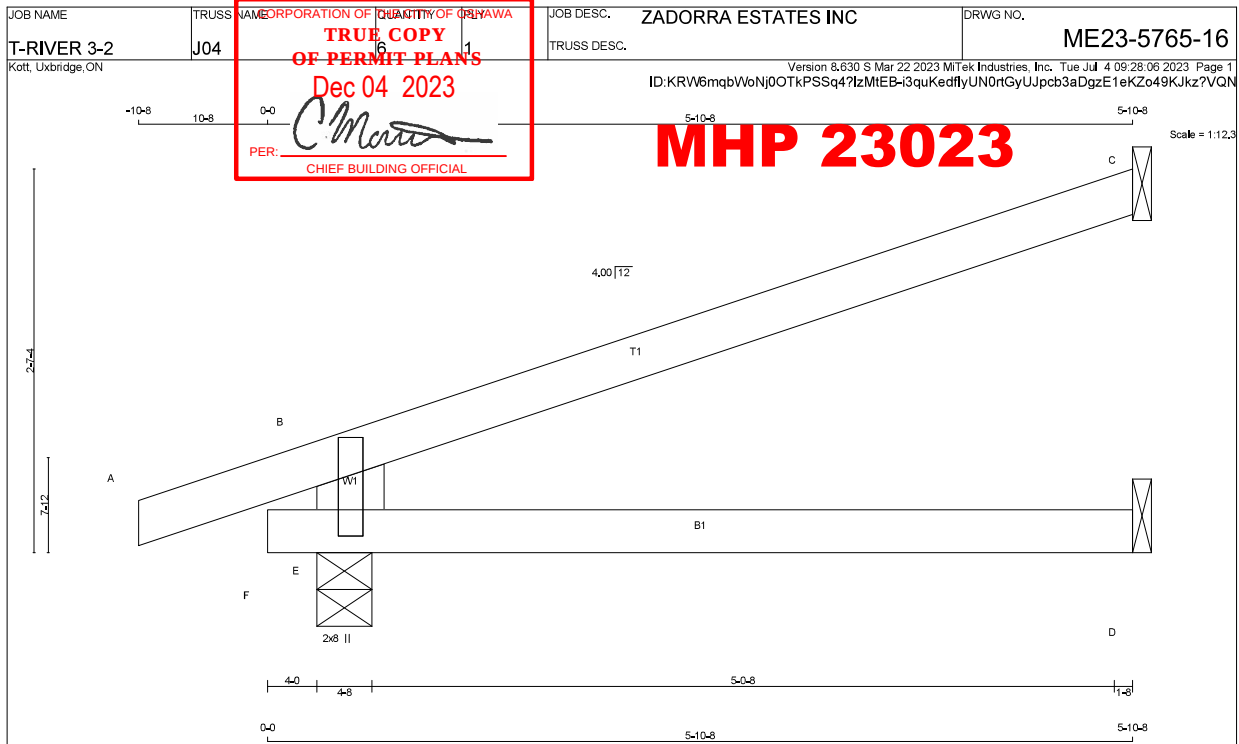




LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER E - B 2x6 DRY No.2 A - C 2x4 DRY No.2 F - D 2x4 DRY No.2 DRY: SEASONED LUMBER.		DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><td></td><td>FACTORED</td><td>MAXIMUM FACTORED</td><td>INPUT</td><td>REQRD</td></tr><tr><td></td><td>GROSS REACTION</td><td>GROSS REACTION</td><td>BRG</td><td>BRG</td></tr><tr><td>JT</td><td>VERT</td><td>HORZ</td><td>DOWN</td><td>HORZ</td></tr><tr><td></td><td>UPLIFT</td><td>IN-SX</td><td>IN-SX</td><td></td></tr><tr><td>E</td><td>633</td><td>0</td><td>633</td><td>0</td></tr><tr><td></td><td></td><td></td><td>4-8</td><td>1-8</td></tr><tr><td>C</td><td>248</td><td>0</td><td>248</td><td>0</td></tr><tr><td></td><td></td><td></td><td>1-8</td><td>1-8</td></tr><tr><td>D</td><td>38</td><td>0</td><td>42</td><td>0</td></tr><tr><td></td><td></td><td></td><td>1-8</td><td>1-8</td></tr></table> SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C , D UNFACTORED REACTIONS <table><tr><td>1ST LCASE</td><td colspan="6">MAX./MIN. COMPONENT REACTIONS</td></tr><tr><td>JT</td><td>COMBINED</td><td>SNOW</td><td>LIVE</td><td>PERM.LIVE</td><td>WIND</td><td>DEAD</td><td>SOIL</td></tr><tr><td>E</td><td>440</td><td>328 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>112 / 0</td><td>0 / 0</td></tr><tr><td>C</td><td>170</td><td>145 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>25 / 0</td><td>0 / 0</td></tr><tr><td>D</td><td>30</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>30 / 0</td><td>0 / 0</td></tr></table> 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) <table><tr><td colspan="2">CHORDS</td><td colspan="2">FACTORED</td><td colspan="2">WEBS</td></tr><tr><td>MEMB.</td><td>MAX. FACTORED FORCE (LBS)</td><td>VERT. (PLF)</td><td>LOAD LC1</td><td>MAX. (LC)</td><td>MEMB. MAX. FACTORED FORCE (LBS)</td><td>MAX. (LC)</td></tr><tr><td>FR-TO</td><td></td><td>FROM</td><td>TO</td><td>UNBRAC LENGTH</td><td>FR-TO</td><td></td></tr><tr><td>E-B</td><td>-563 / 0</td><td>0.0</td><td>0.0</td><td>0.04 (1)</td><td>7.81</td><td></td></tr><tr><td>A-B</td><td>0 / 24</td><td>-119.4</td><td>-119.4</td><td>0.13 (1)</td><td>10.00</td><td></td></tr><tr><td>B-C</td><td>-26 / 0</td><td>-119.4</td><td>-119.4</td><td>0.48 (1)</td><td>6.25</td><td></td></tr><tr><td>F-E</td><td>0 / 0</td><td>-18.2</td><td>-18.2</td><td>0.00 (4)</td><td>10.00</td><td></td></tr><tr><td>E-D</td><td>0 / 0</td><td>-18.2</td><td>-18.2</td><td>0.16 (4)</td><td>10.00</td><td></td></tr></table>			FACTORED	MAXIMUM FACTORED	INPUT	REQRD		GROSS REACTION	GROSS REACTION	BRG	BRG	JT	VERT	HORZ	DOWN	HORZ		UPLIFT	IN-SX	IN-SX		E	633	0	633	0				4-8	1-8	C	248	0	248	0				1-8	1-8	D	38	0	42	0				1-8	1-8	1ST LCASE	MAX./MIN. COMPONENT REACTIONS						JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	E	440	328 / 0	0 / 0	0 / 0	0 / 0	112 / 0	0 / 0	C	170	145 / 0	0 / 0	0 / 0	0 / 0	25 / 0	0 / 0	D	30	0 / 0	0 / 0	0 / 0	0 / 0	30 / 0	0 / 0	CHORDS		FACTORED		WEBS		MEMB.	MAX. FACTORED FORCE (LBS)	VERT. (PLF)	LOAD LC1	MAX. (LC)	MEMB. MAX. FACTORED FORCE (LBS)	MAX. (LC)	FR-TO		FROM	TO	UNBRAC LENGTH	FR-TO		E-B	-563 / 0	0.0	0.0	0.04 (1)	7.81		A-B	0 / 24	-119.4	-119.4	0.13 (1)	10.00		B-C	-26 / 0	-119.4	-119.4	0.48 (1)	6.25		F-E	0 / 0	-18.2	-18.2	0.00 (4)	10.00		E-D	0 / 0	-18.2	-18.2	0.16 (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.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.(TL)= L/360 (0.19") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02") CANTILEVER DEFLECTION: ALLOWABLE DEFL.(TL)= L/120 (0.19") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.00") CSI: TC=0.48/1.00 (B-C:1), BC=0.16/1.00 (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 AUTOSOLVE RIGHT HEEL ONLY TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.26 (E) (INPUT = 0.90) JSI METAL= 0.17 (E) (INPUT = 1.00)	
	FACTORED	MAXIMUM FACTORED	INPUT	REQRD																																																																																																																																																	
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MODULUS ENGINEERING LTD.

07/04/2023

D. A. SHERMAN

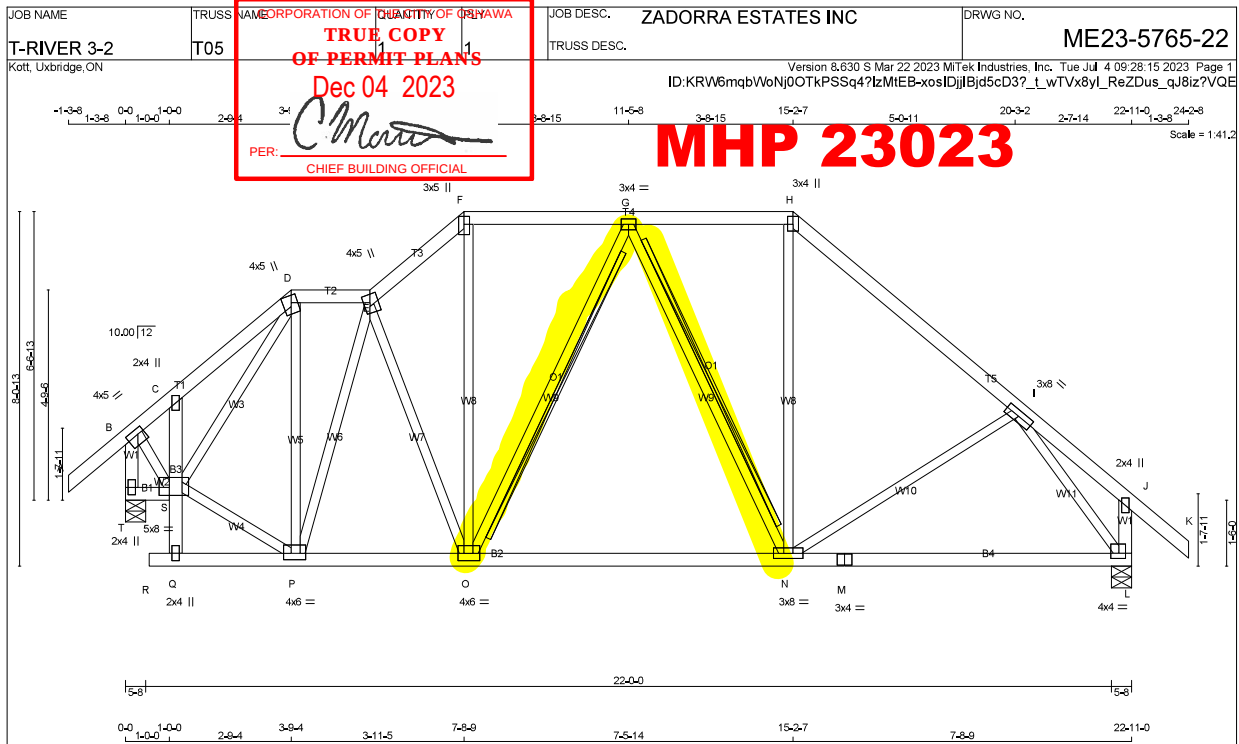
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LICENSED PROFESSIONAL ENGINEER

PROVINCE OF ONTARIO

REVIEW FOR TRUSS COMPONENT ONLY

NOTE: ALTERING THIS DOCUMENT
VOIDS THE ENGINEERS SEAL



TOTAL WEIGHT = 1241 LB														
[MIF]														
LUMBER N, L, G, A, RULES CHORDS SIZE LUMBER DESCR.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS					DESIGN CRITERIA				
A - D 2x4 DRY No.2 SPF					FACTORED GROSS REACTION					SPECIFIED LOADS:				
D - E 2x4 DRY No.2 SPF					MAXIMUM FACTORED BRG					TOP CH. LL = 34.8 PSF				
E - F 2x4 DRY No.2 SPF					DOWN HORZ UPLIFT IN-SSX					DL = 6.0 PSF				
F - H 2x4 DRY No.2 SPF					T 1758 0 1758 0 0 5-8 2-3					BOT CH. LL = 0.0 PSF				
H - K 2x4 DRY No.2 SPF					L 1739 0 1739 0 0 5-8 1-14					DL = 7.3 PSF				
T - B 2x4 DRY No.2 SPF										TOTAL LOAD = 48.1 PSF				
L - J 2x4 DRY No.2 SPF														
T - S 2x4 DRY No.2 SPF														
Q - C 2x4 DRY No.2 SPF														
R - M 2x4 DRY No.2 SPF														
M - L 2x4 DRY No.2 SPF														
ALL WEBS 2x3 DRY No.2 SPF														
EXCEPT														
DRY: SEASONED LUMBER.														
										UNFACTORED REACTIONS				
										1ST LOASE MAX./MIN. COMPONENT REACTIONS				
										JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL				
										T 1227 897 / 0 0 / 0 0 / 0 330 / 0 0 / 0				
										L 1213 891 / 0 0 / 0 0 / 0 321 / 0 0 / 0				
										BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) T, L				
										BRACING				
										TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.02 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.				
										2x4 DRY SPF No.2 T-BRACE AT G-Q, G-N				
										FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3"				
										COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.				
										END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW				
										LOADING				
										TOTAL LOAD CASES: (4)				
										C H O R D S				
										MAX. FACTORED				
										MEMB. FORCE (LBS)				
										FACTORED VERT. LOAD LC1 MAX. MAX. MEMB. FORCE (LBS)				
										FROM TO				
										FR-TO				
										A-B 0 / 53				
										B-C -1003 / 0				
										C-D -962 / 0				
										D-E -837 / 0				
										E-F -1348 / 0				
										F-G -1042 / 0				
										G-H -1055 / 0				
										H-I -1404 / 0				
										I-J 0 / 71				
										J-K 0 / 53				
										T-B -1748 / 0				
										L-J -205 / 0				
										T-S 0 / 0				
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										M-L 0 / 1094				
										W E B S				
										MAX. FACTORED				
										MEMB. FORCE (LBS)				
										MAX. CS1 (LC)				
										FR-TO				
										S-P 0 / 934 0.21 (1)				
										S-D -199 / 0 0.08 (1)				
										P-D 0 / 532 0.12 (1)				
										P-E -962 / 0 0.86 (1)				
										E-O -184 / 0 0.13 (1)				
										O-F 0 / 556 0.13 (1)				
										O-G -312 / 0 0.18 (1)				
										G-N -281 / 0 0.16 (1)				
										N-H 0 / 445 0.10 (1)				
										N-I -53 / 39 0.04 (1)				
										B-S 0 / 1122 0.25 (1)				
										I-L -1837 / 0 0.54 (1)				
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