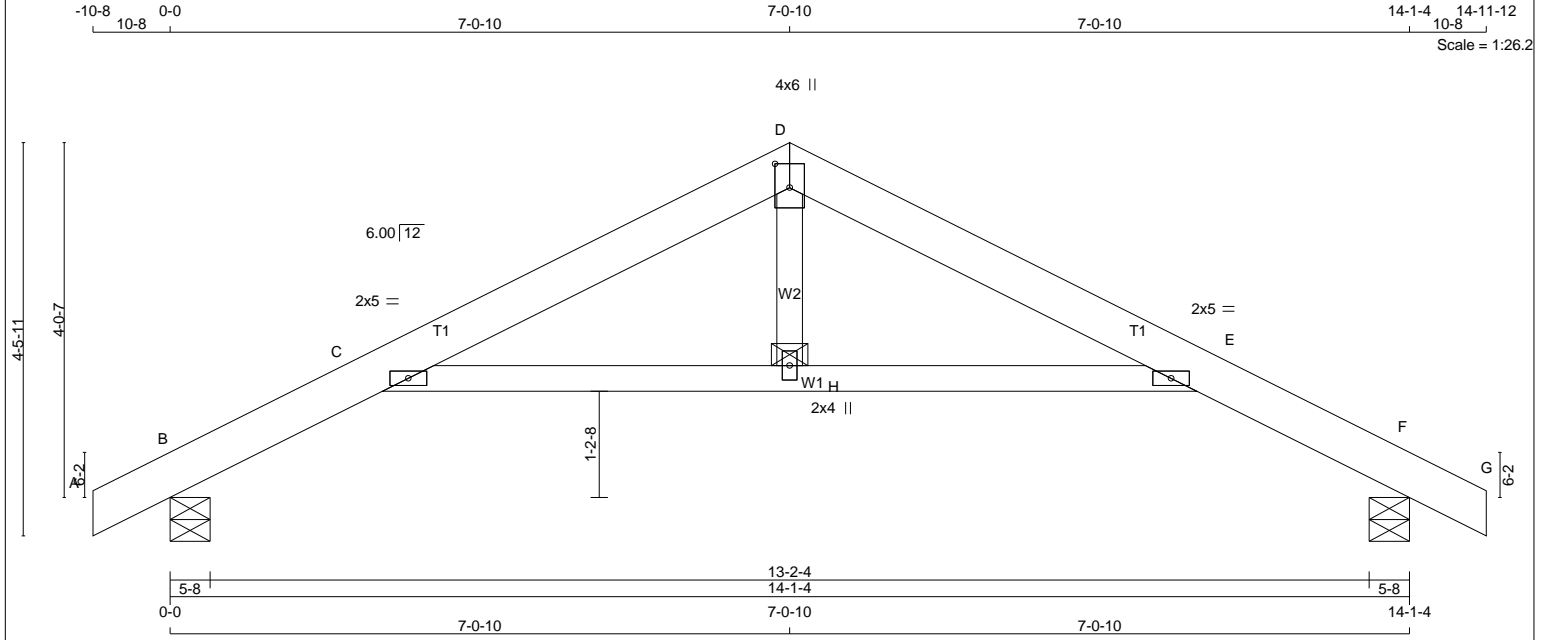


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
B231080	A	8	1	TRUSS DESC.	

Elk Point Truss Ltd., Elk Point, AB, Dwayne Yaremkevich Version 8.710 S Sep 7 2023 MiTek Industries, Inc. Tue Dec 5 08:40:57 2023 Page 1

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TOTAL WEIGHT = 8 X 45 = 364 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x6	DRY No.2	SPF
D - G	2x6	DRY No.2	SPF
ALL WEBS	2x4	DRY No.2	SPF
DRY: SEASONED LUMBER.			

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
C	TMW+w	MT20	2.0	5.0	
D	TTW+p	MT20	4.0	6.0	3.25 2.00
E	TMW+w	MT20	2.0	5.0	
H	WMW+w	MT20	2.0	4.0	

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
B	915	0	926	90	-333	5-8	5-8	
F	915	0	926	0	-333	5-8	5-8	

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): B, F

PROVIDE ANCHORAGE AT BEARING JOINT B FOR 333 LBS FACTORED UPLIFT
 PROVIDE ANCHORAGE AT BEARING JOINT F FOR 333 LBS FACTORED UPLIFT

PROVIDE FOR 90 LBS FACTORED HORIZONTAL REACTION AT JOINT B

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	624	543 / 0	0 / 0	0 / 0	27 / -290	80 / 0	0 / 0
F	624	543 / 0	0 / 0	0 / 0	27 / -290	80 / 0	0 / 0

HORIZONTAL REACTIONS

JT	REACT	REACT	REACT	REACT	REACT	REACT
B	---	0 / 0	0 / 0	0 / 0	65 / -65	0 / 0

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

BRACING
 MAX. UNBRACED TOP CHORD LENGTH = 4.69 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 0.00 FT OR RIGID CEILING DIRECTLY APPLIED.
 MAX. UNBRACED INTERIOR CHORD LENGTH = 6.25 FT

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-E.

LOADING
 TOTAL LOAD CASES: (18)

MEMB.	CHORDS				WEBS			
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	MAX. UNBRAC LENGTH
FR-TO					FR-TO			
A-B	0 / 37	-114.0	-114.0	0.07 (2)	10.00	H-D	-7 / 2	0.00 (1)
B-C	-312 / 201	-114.0	-114.0	0.88 (1)	6.25	C-H	-287 / 1112	0.20 (1)
C-D	-1106 / 357	-114.0	-114.0	0.90 (1)	4.69	H-E	-287 / 1112	0.20 (1)
D-E	-1113 / 390	-114.0	-114.0	0.90 (1)	4.69			
E-F	-302 / 158	-114.0	-114.0	0.88 (1)	6.25			
F-G	0 / 37	-114.0	-114.0	0.07 (3)	10.00			

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2.(8)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF { 7.7 } PSF AT { 40-0-0 } FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpCg, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 33.9 PSF
 DL = 5.0 PSF
 BOT CH. LL = 10.0 PSF
 DL = 7.0 PSF
 TOTAL LOAD = 55.8 PSF

SPACING = 24.0 IN./C/C

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:
 - PART 4 OF CBC 2018, NBC-2019AE
 - PART 4 OF OBC 2012 (2019 AMENDMENT)
 - CSA 086-14
 - TPIC 2014

DESIGN ASSUMPTIONS
 - SLOPE REDUCTION FACTOR USED

(80% OF 39.7 P.S.F. G.S.L. PLUS 2.1 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.9 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.45")
 CALCULATED VERT. DEFL.(LL) = L/431 (0.38")
 ALLOWABLE DEFL.(TL)= L/180 (0.91")
 CALCULATED VERT. DEFL.(TL) = L/372 (0.44")

CSI: TC=0.90/1.00 (C-D:1), BC=0.00/1.00 (n/a:0), WB=0.20/1.00 (C-H:1), SSI=0.42/1.00 (B-C:1)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
 WIND LOAD IMPORTANCE FACTOR = 1.00
 COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI)	SHEAR (PLI)	SECTION (PLI)
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (C) (INPUT = 0.90)
 JSI METAL= 0.30 (C) (INPUT = 1.00)