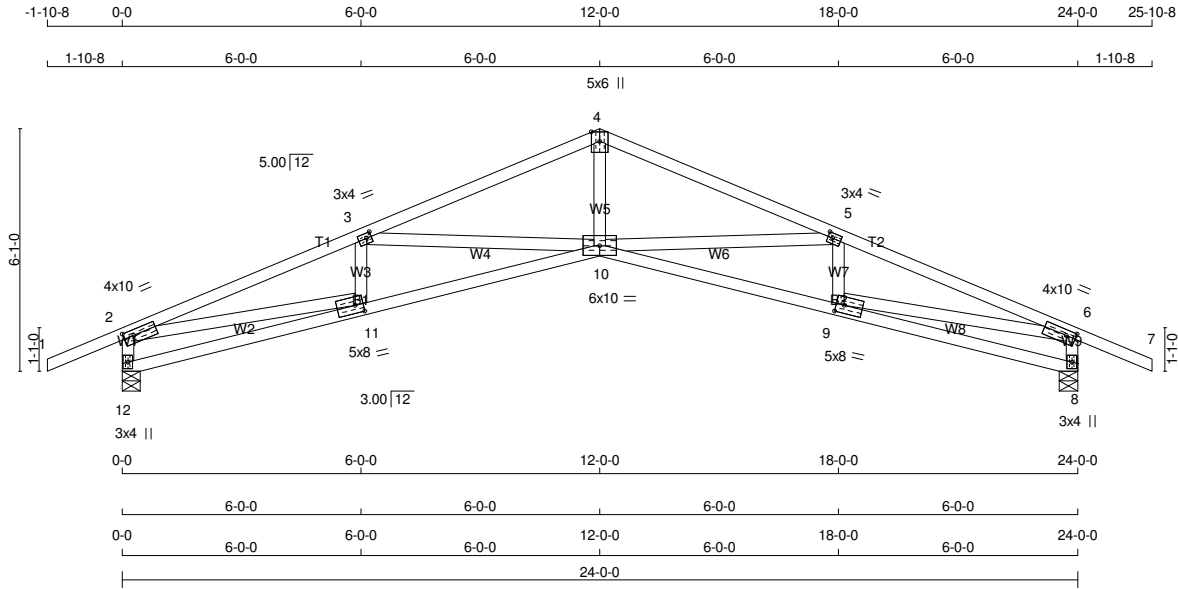


JOB NAME <b>J18-1293-A</b>	TRUSS NAME <b>T24</b>	QUANTITY <b>11</b>	PLY <b>1</b>	JOB DESC. TRUSS DESC.	DRWG NO.
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Structural Truss Systems, Fort Macleod, Eric Vandenberg

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TOTAL WEIGHT = 11 X 97 = 1070 lb

**LUMBER**

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY No.2	SPF
4 - 7	2x4	DRY No.2	SPF
12 - 2	2x4	DRY No.2	SPF
8 - 6	2x4	DRY No.2	SPF
12 - 10	2x4	DRY No.2	SPF
10 - 8	2x4	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
2	TMW-t	MT20	4.0	10.0	1.75	3.00
3	TMW-t	MT20	3.0	4.0	1.50	1.50
4	TTW+p	MT20	5.0	6.0	Edge	
5	TMW-t	MT20	3.0	4.0	1.50	1.50
6	TMW-t	MT20	4.0	10.0	1.75	3.00
8	BMV1+p	MT20	3.0	4.0		
9	BMW-t	MT20	5.0	8.0	2.50	2.50
10	BMW-t	MT20	6.0	10.0		
11	BMW-t	MT20	5.0	8.0	2.50	2.50
12	BMV1+p	MT20	3.0	4.0		

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

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

**BEARINGS**

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	REQD
12	1942	0	1942	0	0	5-8	5-8
8	1942	0	1942	0	0	5-8	5-8

ALLOW FOR 0.4" OF HORIZONTAL MOVEMENT DUE TO TOTAL LOAD.

**UNFACTORED REACTIONS**

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
12	1346	1039 / 0	0 / 0	0 / 0	0 / 0	307 / 0	0 / 0
8	1346	1039 / 0	0 / 0	0 / 0	0 / 0	307 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 12, 8

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.38 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)

MEMB.	MAX. FACTORED FORCE (LBS)	CHORDS			WEBS		
		VERT. LOAD (PLF)	LC1 (CSI (LC))	MAX (PLF)	MEMB. UNBRAC LENGTH FR-TO	MAX. FACTORED FORCE (LBS)	MAX (CSI (LC))
1-2	0 / 46	-124.3	-124.3	0.32 (1)	10.00	10-4	0 / 2359
2-3	-4654 / 0	-124.3	-124.3	0.95 (1)	2.38	10-5	-774 / 0
3-4	-3859 / 0	-124.3	-124.3	0.82 (1)	2.80	9-5	-527 / 0
4-5	-3859 / 0	-124.3	-124.3	0.82 (1)	2.80	3-10	-774 / 0
5-6	-4654 / 0	-124.3	-124.3	0.95 (1)	2.38	11-3	-527 / 0
6-7	0 / 46	-124.3	-124.3	0.32 (1)	10.00	2-11	0 / 4347
12-2	-1889 / 0	0.0	0.0	0.19 (1)	6.11	9-6	0 / 4347
8-6	-1889 / 0	0.0	0.0	0.19 (1)	6.11		
12-11	0 / 3	-17.5	-17.5	0.14 (4)	10.00		
11-10	0 / 4439	-17.5	-17.5	0.82 (1)	10.00		
10-9	0 / 4439	-17.5	-17.5	0.82 (1)	10.00		
9-8	0 / 3	-17.5	-17.5	0.14 (4)	10.00		

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 37.3 PSF  
DL = 5.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 49.3 PSF

**SPACING = 24.0 IN.CC**

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

(55% OF 56.4 P.S.F. G.S.L. PLUS 6.3 P.S.F. RAIN LOAD) EQUALS 37.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.80")  
CALCULATED VERT. DEFL.(LL) = L/818 (0.35")  
ALLOWABLE DEFL.(TL) = L/360 (0.80")  
CALCULATED VERT. DEFL.(TL) = L/477 (0.60")

CSI: TC=0.95/1.00 (5-6:1), BC=0.82/1.00 (9-10:1), WB=0.70/1.00 (6-9:1), SSI=0.33/1.00 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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	618 354	1667 822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

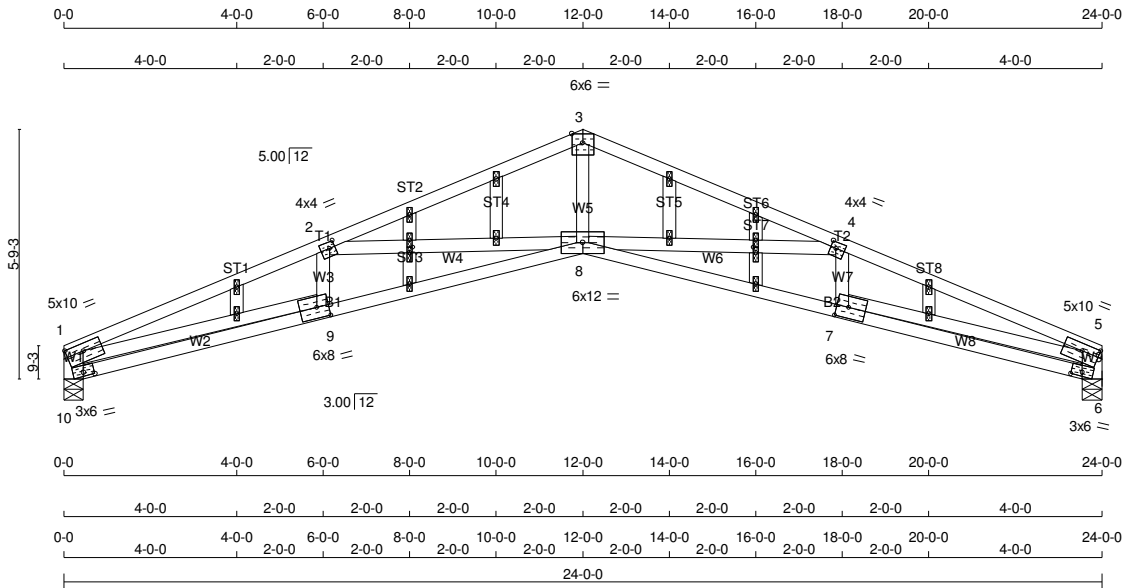
JSI GRIP= 0.89 (4) (INPUT = 0.90)  
JSI METAL= 0.83 (9) (INPUT = 1.00)

JOB NAME <b>J18-1293-A</b>	TRUSS NAME <b>T24-GE</b>	QUANTITY <b>2</b>	PLY <b>1</b>	JOB DESC. TRUSS DESC.	DRWG NO.
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Structural Truss Systems, Fort Macleod, Eric Vandenberg

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ID:514pyS42qNUjO7Sa0JB5QVyiGTE-iu8XRku7VTNRNavPoptGV7sys8x88uEuogXjUzyiGQu



Scale = 1:53.3

TOTAL WEIGHT = 2 X 99 = 198 lb

**LUMBER**  
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4 DRY	2100F 1.8E	SPF
3 - 5	2x4 DRY	2100F 1.8E	SPF
10 - 1	2x6 DRY	No.2	SPF
6 - 5	2x6 DRY	No.2	SPF
10 - 8	2x4 DRY	No.2	SPF
8 - 6	2x4 DRY	No.2	SPF
ALL WEBS EXCEPT	2x4 DRY	No.2	SPF
ALL GABLE WEBS	2x4 DRY	No.2	SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2'-0" O.C.

**PLATES (table is in inches)**

JT	TYPE	PLATES	W	LEN	Y	X
1	TMWW-t	MT20	5.0	10.0	2.00	4.75
2	TMWW-t	MT20	4.0	4.0	1.75	1.50
3	TTW-p	MT20	6.0	6.0	Edge	
4	TMWW-t	MT20	4.0	4.0	1.75	1.50
5	TMWW-t	MT20	5.0	10.0	2.00	4.75
6	BVM1-l	MT20	3.0	6.0	1.00	3.00
7	BMWW-t	MT20	6.0	8.0	3.00	3.25
8	BBWWW-p	MT20	6.0	12.0		
9	BMWW-t	MT20	6.0	8.0	3.00	3.25
10	BVM1-l	MT20	3.0	6.0	1.00	3.00
11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24						
11	NP+w	MT20	1.5	4.0		
13	NP+w	MT20	1.5	4.0	1.50	0.75
22	NP+w	MT20	1.5	4.0	1.50	0.75

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

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

**BEARINGS**

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	REQRD
10	1702	0	1702	0	0	5-8	5-8
6	1702	0	1702	0	0	5-8	5-8

ALLOW FOR 0.4" OF HORIZONTAL MOVEMENT DUE TO TOTAL LOAD.

**UNFACTORED REACTIONS**

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
10	1183	895 / 0	0 / 0	0 / 0	0 / 0	288 / 0	0 / 0
6	1183	895 / 0	0 / 0	0 / 0	0 / 0	288 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 10, 6

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.37 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)	FACTORED LC1 (CSI (LC))	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM	TO	FR-TO			
1-2	-5532 / 0	-124.3	-124.3 0.55 (1)	3.37	8-3	0 / 2700	0.43 (1)
2-3	-4326 / 0	-124.3	-124.3 0.47 (1)	3.82	8-4	-1148 / 0	0.52 (1)
3-4	-4326 / 0	-124.3	-124.3 0.47 (1)	3.82	7-4	-387 / 23	0.04 (1)
4-5	-5532 / 0	-124.3	-124.3 0.55 (1)	3.37	2-8	-1148 / 0	0.52 (1)
10-1	-1644 / 0	0.0	0.0 0.11 (1)	7.69	9-2	-387 / 23	0.04 (1)
6-5	-1644 / 0	0.0	0.0 0.11 (1)	7.69	1-9	0 / 5193	0.83 (1)
10-9	-1 / 2	-17.5	-17.5 0.13 (1)	10.00	7-5	0 / 5193	0.83 (1)
9-8	0 / 5275	-17.5	-17.5 0.97 (1)	10.00			
8-7	0 / 5275	-17.5	-17.5 0.97 (1)	10.00			
7-6	-1 / 2	-17.5	-17.5 0.13 (1)	10.00			

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 37.3 PSF  
DL = 5.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 49.3 PSF

**SPACING = 24.0 IN.CC**

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:  
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014  
- CSA 086-09  
- TPIC 2011

(55% OF 56.4 P.S.F. G.S.L. PLUS 6.3 P.S.F. RAIN LOAD) EQUALS 37.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.80")  
CALCULATED VERT. DEFL.(LL) = L/667 (0.43")  
ALLOWABLE DEFL.(TL) = L/360 (0.80")  
CALCULATED VERT. DEFL.(TL) = L/391 (0.74")

CSI: TC=0.55/1.00 (4-5:1), BC=0.97/1.00 (7-8:1), WB=0.83/1.00 (5-7:1), SSI=0.32/1.00 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

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

**NAIL VALUES**

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX	MIN	MAX	MIN
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (8) (INPUT = 0.90)  
JSI METAL= 0.98 (7) (INPUT = 1.00)