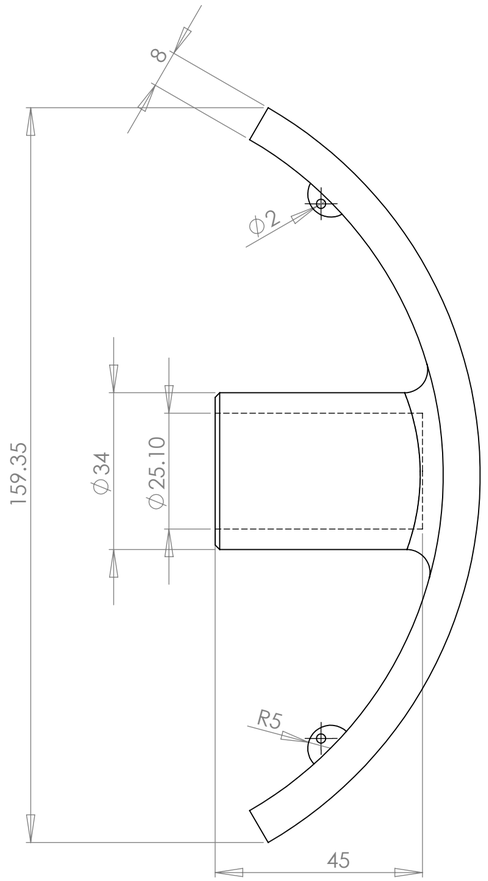
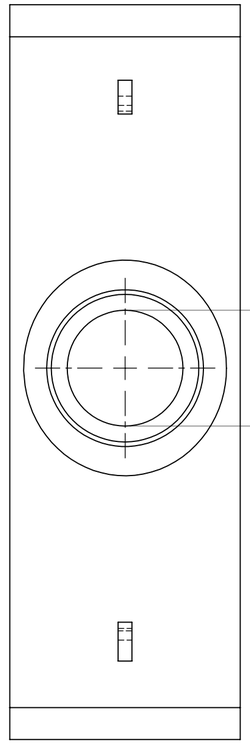
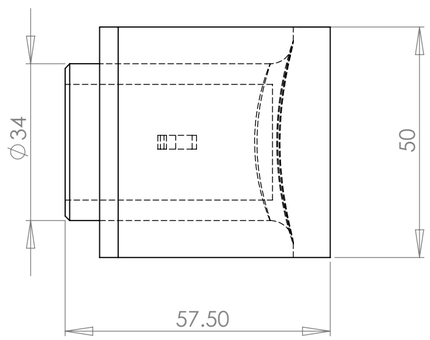
THE BRAKE SHOE IS THE COMPONENT THAT APPLIES FORCE TO THE BREAK DRUM. OUTER SURFACE OF THE SHOE IS LINED WITH A HEAT RESISTANT COMPOSITE MATERIAL THAT RUBS AGAINST THE INNER BORE OF THE BRAKE DRUM.
THE WEIGHT OF THE BREAK SHOE GREATLY INFLUENCES THE SPEED AT WHICH BRAKING FIRST OCCURS. THE SPRING CONSTANT AND THE WEIGHT OF THE BRAKE SHOE ARE THE TWO GOVERNING FACTORS THAT WILL INDUCE BRAKING AT A GIVEN ROTATIONAL SPEED. IF THE SPRING STIFFNES IS HELD CONSTANT THEN AN INCREASE IN THE WEIGHT OF THE BRAKE SHOE WILL DECREASE THE ROTATIONAL SPEED AT WHICH BRAKING FIRST OCCURS.



SIDE VIEW



BOTTOM VIEW



END VIEW

UNIVERSITY OF SOUTHERN QUEENSLAN	UNLESS OTHERWISE SPECIFIED:		NAME / DATE
	DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	J.KIRSCH 6/10/09
		CHECKED	
		ENG APPR.	
		MFG APPR.	
	INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.	
	MATERIAL	COMMENTS:	
NEXT ASSY USED ON	FINISH		
APPLICATION	DO NOT SCALE DRAWING		

KH3- 500 WIND TURBINE

TITLE:

BRAKE SHOE

SIZE	DWG. NO.	REV
C	23	
SCALE: 1:1		SHEET 1 OF 1