OUTLINE OF AREA OF UNCERTAINTY

RANGE ARC 2

RANGE ARC 1

e

e

e

e

θ

d

TO BASE STATION 1

TO BASE STATION 2

$$d = \frac{2e}{\sin \frac{\theta}{2}}$$

e = RANGE ERROR

θ = ANGLE OF INTERSECTION OF RANGE CIRCLES

5 cm

FIGURE 2

AREA OF UNCERTAINTY OF POSITION
DUE TO ERROR IN RANGE MEASUREMENT