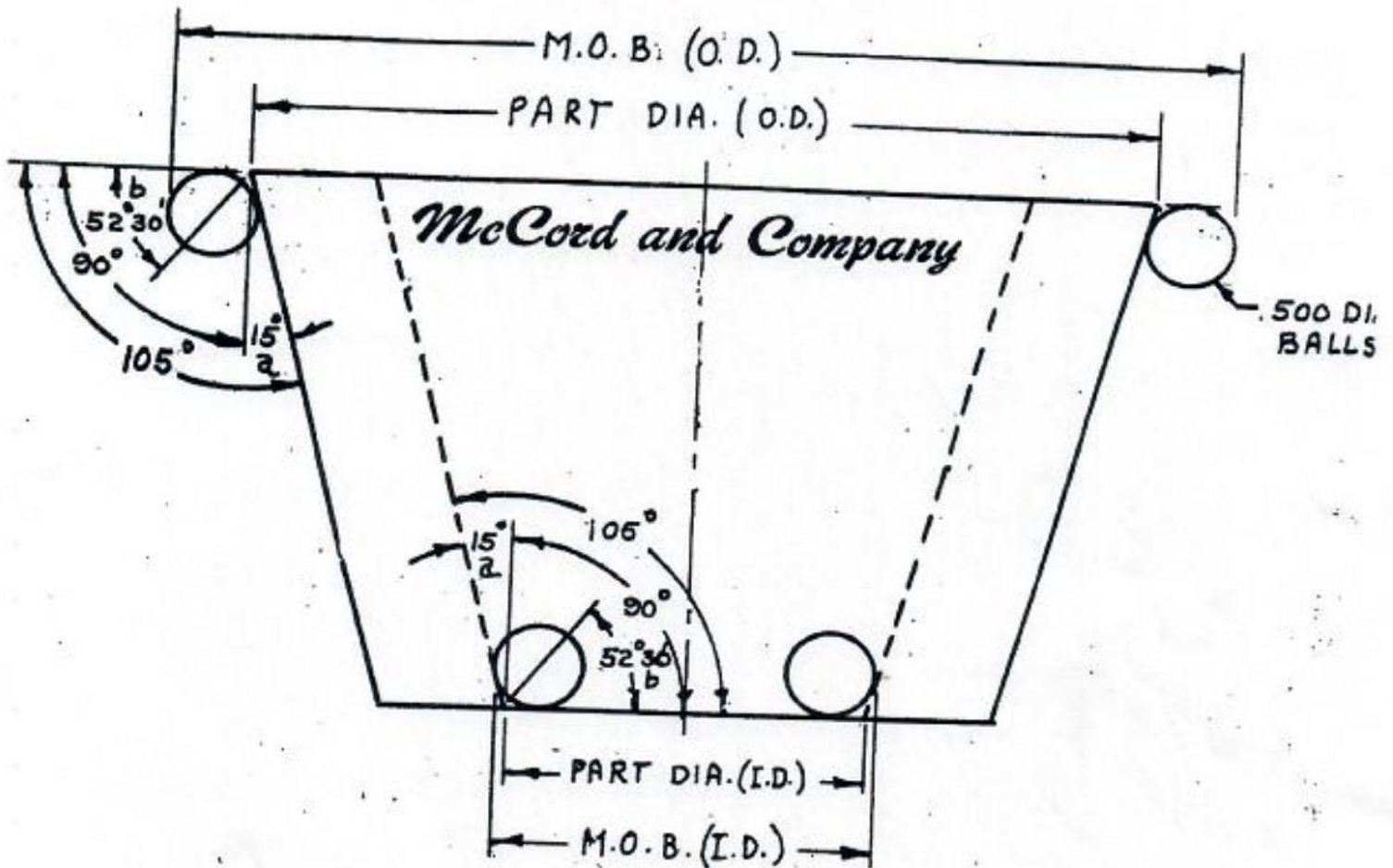


Obtuse Calculations

METHOD OF CALCULATION FOR MEASUREMENT OVER BALLS: OBTUSE ANGLES ($90^\circ + a^\circ$)



$$\angle b = \frac{90^\circ + \angle a}{2} = 52^\circ 30'$$

CALCULATED DIMENSION = $\frac{1}{\cot \angle b} + 1.000 \times \text{BALL DIA.}$

$$\text{CALCULATED DIMENSION} = \cot 52^\circ 30' = .76733$$

$$\text{PLUS } 1.00000$$

$$\underline{1.76733}$$

$$\text{TIMES BALL DIA. } \times .50000$$

$$\text{CALCULATED DIMENSION} = \boxed{.88367}$$

$$\text{M.O.B. (O.D.)} = \text{PART DIA. (O.D.)} + .8836$$

$$\text{M.O.B. (I.D.)} = \text{PART DIA. (I.D.)} - .8836 \text{ PLUS 2 BALL DIAS.}$$