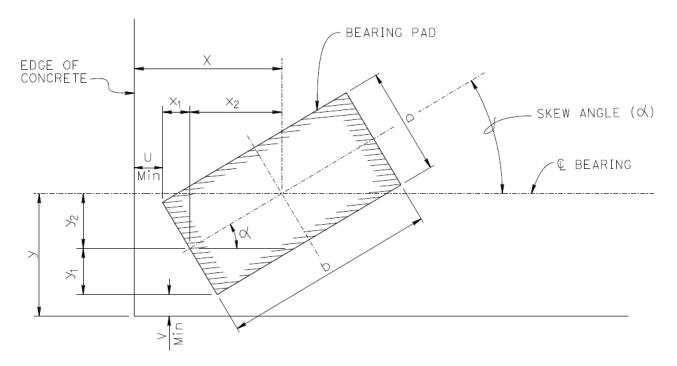
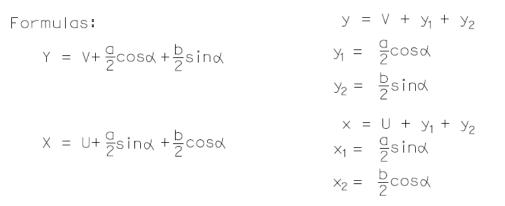


Bridge Design Details 6.13 February 2020

Edge Distance Calculation for Bearing Pad









- Example: 10" x 22" Bearing Pad (a = 10", b = 22") Minimum Skew Angle (α) = 27° 10' 30" Clearance (U = 3", V = 3")
- Calculate: $Y = 3" + \frac{10"}{2} (0.8896) + \frac{22"}{2} (0.4567)$ Y = 3" + 4.45" + 5.02" = 12.47", use $12\frac{1}{2}"$ minimum $X = 3" + \frac{10"}{2} (0.4567) + \frac{22"}{2} (0.8896)$ X = 3" + 2.28" + 9.78" = 15.06", use 15" minimum