



1 Note: For all cross-sectional shapes,  $d_c$  can be calculated by trial and error knowing that the quantity  $(Q^2 T / g A^3) = 1.0$  at critical depth.

EXAMPLE
<p>D = 86 inches, Q = 100cfs  <math>d_c/D</math> - Ratio = 0.50  <math>d_c = (0.50)(86 \text{ inches}) = 33 \text{ inches} \sqrt{(12 \text{ inches/ft})}</math>  <math>d_c = 2.75 \text{ feet}</math></p>



Figure F.14. Critical Depth of Flow for Circular Culverts