ORIFICE SIZING EQUATION

\[ Q = CA(2gH)^{1/2} \]

- \( Q \) = Peak Discharge Rate, cfs
- \( C \) = Coefficient of Discharge. Dimensionless. (Use Nominal Value of 0.60)
- \( A \) = Cross sectional area of orifice, square feet.
- \( g \) = Acceleration due to gravity, 32.16 ft./sec./sec.
- \( H \) = Head on the orifice, feet.

NOTES:

1. Orifice plate to be set on outlet pipe wall at each basin as indicated on plans.
2. Orifice plate shall be sealed on all sides. Gaps from \( \frac{1}{8} \)" to \( \frac{1}{2} \)" in width between the orifice plate and inside wall of the structure shall be sealed with silicone rubber-based caulka or polyurethane. Gaps greater than \( \frac{1}{2} \)" shall be sealed with non-shrink grout.