



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.

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE & DRAINAGE

OUTLET CONTROL ORIFICE PLATE

STANDARD DRAWING
AA-S145

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