



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 1/8" TO 1/4" IN WIDTH BETWEEN THE ORIFICE PLATE AND INSIDE WALL OF THE STRUCTURE SHALL BE SEALED WITH SILICONE RUBBER-BASED CAULK OR POLYURETHANE. GAPS GREATER THAN 1/4" SHALL BE SEALED WITH NON-SHRINK GROUT.

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

OUTLET CONTROL
ORIFICE PLATE

STANDARD DRAWING
AA-S145

APPROVED:

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SSES MANAGER

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