DETENTION POND DESIGN CHECKLIST*

Total Drainage Area Into Pond (acres)** = _____

Drainage Coefficient/Curve Number (pre-development) = _____

Drainage Coefficient/Curve Number (post-development) = _____

Pre-Development Runoff

10 year / 24-hour Q (cfs) = _____

25 year / 24-hour Q (cfs) = _____

100 year / 24-hour Q (cfs) = _____

Post Development Runoff

10 year / 24-hour Q (cfs) = _____

25 year / 24-hour Q (cfs) = _____

100 year / 24-hour Q (cfs) = _____

Pond Routing

Outflow

10 year / 24-hour Q = _____

25 year / 24-hour Q = _____

100 year / 24-hour Q = _____

Elevations

Top of Dam Elevation = _____

Water Surface Elevation: 10 year = _____ 25 year = _____ 100 year = _____

Emergency Spillway Elevation = _____

100 year / 24-Hour Storm Water Surface Elevation = _____

Water Quality

Water Quality Volume To Be Treated (acre-feet) = _____

$$WQ_v = \frac{(A * d)}{43560\ ft^2 * 12in}$$

Where: WQ_v = Water Quality Volume (acre-feet)

A = Impervious Area (ft^2)

D = 0.6 (in)

*This checklist to be accompanied by supporting drainage calculations and data.

**Include area outside of the development property if applicable.