

**CITY OF SHELBYVILLE, KY
DETENTION ANALYSIS CHECKLIST**

Project Name: _____ **Date:** _____

The purpose of this checklist is to expedite and facilitate the review process. These are the minimum requirements for review by the City of Shelbyville. All items shall be checked as included or marked N/A. The omission of required information may be cause for rejection of the submittal without review.

- _____ Cover Sheet with Professional Engineer's stamp, project title, and owner name, and date
- _____ Explanation of analysis with assumptions
- _____ Analysis of downstream capacity limits
- _____ Pre-developed drainage area map
- _____ Post-developed drainage area map
- _____ Time of concentration (Tc) supporting calculations – Pre and Post development
- _____ Runoff Coefficient or Curve Number Calculations – Pre-developed
- _____ Runoff Coefficient or Curve Number Calculations – Post-developed
- _____ Data for 2, 10, 25, and 100 year peak flows for Pre-developed condition
- _____ Data for 2, 10, 25 and 100 year peak flows for Post-developed condition
- _____ Direct release calculations
- _____ Basin volume data for above peak flows (elevation and storage volume)
- _____ Basin grading plan (include basin dimensions, slopes, etc.)
- _____ Basin outlet structure data and construction details
- _____ Basin overflow/spillway dimensions, calculations
- _____ Check 100 year analysis for overflow – (upstream developed condition)
- _____ Basin Routing Data (stage, storage, peak elevation, peak inflow, peak outflow)
- _____ Velocity dissipation calculation if flows exceed 5 ft/s or (property line point discharge)
- _____ Summary of drainage analysis

The undersigned acknowledges by signature that these documents meet or exceed the design standards of the City of Shelbyville and that they were prepared under my supervision. The undersigned further acknowledges that to the best of my knowledge and belief, the products resulting from these documents will function as intended.

Engineer's Signature Print Name Date

The undersigned acknowledges by signature that he/she is responsible for constructing and maintaining the improvements in accordance with the City of Shelbyville's ordinances and design criteria as submitted.

Owner's Signature Print Name Date

FORM MUST BE COMPLETED AND INCLUDED WITH ALL PLAN SUBMITTALS