



**City of Richmond
Planning and Zoning**

(859) 623-1000
239 West Main Street
Richmond, KY 40475

Storm Water Calculation Worksheet

Project/Applicant name: _____

Pre-Development Area

Total area of lot/parcel _____ acres One (1) acre contains 43,560 sq/ft
Total area of lot/parcel _____ sq/ft

Land-Disturbing Activity is any activity that results in movement of earth, or a change in the existing soil cover (both vegetative and non-vegetative) and/or the existing soil topography. Land disturbing activities include, but are not limited to clearing, grading, filling, excavation, and compaction associated with stabilization of structures and road construction.

LAND DISTURBING ACTIVITY, STABILIZATION, VOLUME OF CUT/FILL

Impervious surface is a hard surface that either prevents or retards the entry of water into the soil mantle as under natural conditions prior to development. A hard surface area which causes water to run off the surface in greater quantities or at an increased rate of flow from the flow present under natural conditions prior to development. Common impervious surfaces include, but are not limited to roof tops, walkways, patios, driveways, parking lots or storage areas, concrete or asphalt paving, packed earthen materials, or other surfaces which similarly impede the natural infiltration of storm water.

STORM WATER CALCULATIONS – IMPERVIOUS SURFACE

NEW/PROPOSED

EXISTING

**Total New/
Proposed** _____sq/ft

**Total
Existing** _____sq/ft

Percentage
Impervious Area _____%

Percentage
Impervious Area _____%

Calculate the total area to be cleared, graded, filled, excavated, and/or compacted for proposed development project. Include in this calculation the area to be cleared for:

Indicate Total Volumes of Proposed:

Cut _____ (cu/yd)

Fill _____ (cu/yd)

Storm Water Detention/Retention Design

(Attach separate sheets to show cross-sections and details)

Ref. Attachments: YES NO

Total Storage Required: _____ cu.ft.

Dimensions: _____

Material: _____

Type: _____

Comments: _____

Outlet Structure Design

(Attach separate sheet to show outlet structure detail)

Ref. Attachments: YES NO

Material: _____

2 Yr Inlet: _____ (size) _____ (elev.) Storage: _____ cu.ft.

25 Yr Inlet: _____ (size) _____ (elev.) Storage: _____ cu.ft.

100 Yr Inlet: _____ (size) _____ (elev.) Storage: _____ cu.ft.

Outlet: _____ (size) _____ (elev.) _____ (material)

* Attach plat/plan sheet showing entire site development with storm sewer system improvements to be installed on development with catch basins, man holes, junction boxes, outlet structures, proposed contours, existing contours, easements, structure details, and etc. that pertain to the installation and maintenance of the completed storm sewer system.

ENGINEER & APPLICANT SIGNATURE

By signing the Storm Water Calculation Worksheet, I as the engineer attest that the information provided herein was calculated by me and is true and correct to the best of my knowledge.

(FIRM NAME)

(WET STAMP)



(ENGINEER SIGNATURE)

(DATE)

By signing the Storm Water Calculation Worksheet, I as the applicant/owner attest that the information provided herein is true and correct to the best of my knowledge. I also certify that this application is being made with the full knowledge and consent of all owners to install the aforementioned improvements to the affected property as stated in this application.

(LANDOWNER OR AUTHORIZED SIGNATURE)

(DATE)

(LANDOWNER OR AUTHORIZED PRINTED NAME)