

APPENDIX A

Stormwater Volume Checklist

Stormwater Volume Checklist

The completion of this checklist is required for all projects requiring a permit from Valley Branch Watershed District.

For detailed information on stormwater management techniques and policies, see the Alternative Stormwater Best Management Practices Guidebook, published by Valley Branch Watershed District, April 2000. Call 952-832-2622 to receive a copy.

Project Name:

Site Design to Reduce Stormwater Runoff	Yes	No	If No, Why Not?
Building Locations			
Are stable natural drainageways, swales, and ravines preserved under proposed conditions?			
Are buildings set back 40 feet from the top of natural slopes greater than 18% over a length of 100 feet in the absence of stricter bluff ordinances?			
Cul-de-Sac Design			
Are all proposed cul-de-sac radii less than 39 feet?			
Are the centers of proposed cul-de-sacs unpaved, depressed islands (with rainwater gardens) with minimum diameters of 20 feet?			
Driveway Design			
Are proposed houses set back no more than 20 feet from the front property line?			
Are proposed long driveways limited to only 12 feet wide at the street?			
Are proposed driveways crowned and/or draining to green areas/rainwater gardens?			
Are proposed driveways shared?			
Are wheel track driveways being proposed?			
Are driveways proposed to be constructed with pervious pavement?			
Are turfed geotextile pavers proposed for summer temporary overflow parking along driveways?			
Parking Lot Design			
Are proposed 90-degree parking stalls 9 feet wide or less?			
Are proposed 90-degree parking stalls 18 feet long or less?			
Are 30% of the proposed spaces dimensioned for compact cars only?			
Are turfed geotextile pavers proposed for summer spillover parking areas?			
Are parking lots proposed to be constructed with pervious pavement?			
What is the minimum number of parking stalls required by the city? (please fill in number)			
What is the maximum number of parking stalls required by the city? (please fill in number)			
How many parking stalls are proposed? (please fill in number)			
Are the minimum number of parking stalls being proposed?			
Have the total number of proposed parking stalls been reduced because of shared parking with a nearby business?			
Will the impervious areas be disconnected to promote filtration and infiltration?			
Will the parking lot drain into infiltration islands/rainwater gardens?			
Will snow from the parking lot be plowed and stored in pervious areas?			
Street Design			
Are proposed streets crowned and curbless?			
Will pervious pavement be used?			
Will runoff be directed to vegetated swales and infiltration basins/rainwater gardens?			
Will perforated subsurface pipes, tanks, and storage systems be constructed?			
Will parking be needed and allowed on both sides, one side, or not at all on the streets? (please fill in answer)			
Are low-volume residential streets a maximum of 24 feet wide when parking & grass shoulders are proposed on both sides or when parking is not allowed?			
Are residential minor streets a maximum of 28 feet wide?			
Are residential collector streets a maximum of 31 feet wide?			
Path/Trail Design			
Will paths and sidewalks be constructed with porous material (wood chips or pervious pavement)?			
What is the narrowest width the city allows? (please fill in width)			
What is the width of proposed trails? (please fill in width)			
Rooftop Runoff			
Will 100% of the roof runoff be directed to permeable surfaces?			
Will rooftop storage be used?			
Will a green roof be constructed?			
Will rain barrels/cisterns be used or required?			
Continued on back			

Planting Design	Yes	No	If No, Why Not?
Do the specifications include loosening soils to a depth of 24 inches to a maximum compaction of 85% standard proctor density prior to planting?			
Do the specifications include tilling the upper 10 inches of soils prior to planting?			
Are islands proposed to be vegetated instead of paved?			
Does the planting plan include trees that at maturity will provide canopy over at least 50% of the paved area?			
Are deep-rooted trees, shrubs, wildflowers, and grasses planned in at least 25% of the project's green space?			
Open Space Subdivision Design			
Is 50% or more of the site preserved as natural area?			
Best Management Practices for Use in Development			
Buffers			
What is the proposed buffer zone along streams, wetlands, and lakes? (fill in width)			
Vegetated Swales			
Are vegetated swales proposed to convey stormwater?			
Will vegetated swales have native, deep-rooted vegetation?			
Vegetated Filter Strips			
Are filter strips proposed for sheet flows from impervious areas?			
Infiltration Basins			
Are infiltration basins proposed for the project?			
Was the infiltration rate of the soils at the proposed infiltration basins measured/tested?			
Was a soil boring conducted at all proposed infiltration basins?			
Using the Unified Soil Classification System, what is the classification of the least permeable soil layer at the proposed infiltration basin? (please fill in)			
What is the Hydrologic Group classification of the soil at the proposed infiltration basins? (please fill in)			
Is the base of the infiltration basin at least 3 feet above bedrock and the water table, or an impermeable layer?			
What is the depth to bedrock from the bottom of the proposed infiltration basin? (please fill in)			
Is the basin proposed to be planted with deep-rooted vegetation?			
Is the basin designed to treat the VBWD-required runoff volume and to infiltrate the stormwater within 48 hours?			
Is the basin set back at least 10 feet from all property lines?			
Is the basin set back at least 10 feet from building foundations?			
Is the basin set back at least 50 feet from private wells/public water wells?			
Is the basin set back at least 35 feet from septic systems?			
What is the drainage area to the infiltration basin? (please fill in)			
For infiltration basins with drainage areas less than two acres, will at least 50% of the inflow volume to the infiltration basin be pre-treated?			
For infiltration basins with drainage areas greater than two acres, will at all of the inflow volume to the infiltration basin be pre-treated?			
Will the proposed infiltration basin be staked off and marked during construction to prevent compaction?			
Who will maintain the infiltration basin? (please write name and attach contract)			
Sand Filters			
Are sand filters proposed on the site?			
Who will maintain the sand filter? (please write name and attach contract)			
Is the sand filter designed to accommodate 3/4-inch of runoff from its impervious drainage area?			