

# Stormwater Planter Feasibility Checklist

## Stormwater BMP Category

- Receiving* Low Impact Development Practice

## SWM Credits

- SWM Criteria #1:** Runoff Reduction: subtract 50% of storage volume from  $RR_v$
- SWM Criteria #2:** Water Quality Protection: subtract 50% of storage volume from  $RR_v$
- SWM Criteria #3:** Aquatic Resource Protection: Proportionally adjust CN to calculate  $ARP_v$
- SWM Criteria #4:** Overbank Flood Protection: Proportionally adjust CN to calculate  $Q_{P25}$
- SWM Criteria #5:** Extreme Flood Protection: Proportionally adjust CN to calculate  $Q_{P100}$

## Site Feasibility

### Contributing Drainage Area

- $\leq 2,500 \text{ ft}^2$  ( $> 2,500 \text{ ft}^2$  – use Bioretention)
- $\leq 150'$  length of flow path in pervious contributing drainage area ( $> 150'$  – use Bioretention)
- $\leq 75'$  length of flow path in impervious contributing drainage area ( $> 75'$  – use Bioretention)

### Surface Area of Planter

- 5% of the size of the Contributing Drainage Area (CDA)

### Site Topography

- $\leq 6\%$  (average) slopes in the CDA

### Depth of BMP

- $\geq 2.5'$  total depth: surface ponding (6"), & planting bed (24")
- $\geq 2'$  total depth: surface ponding (6"), planting bed (18" w/ shallow WT)

### Water Table

- $\geq 2'$  separation (bottom of practice to SHWT)
- $> 12''$  separation (bottom of practice to SHWT) w/ shallow WT (reduce planting bed depth to 18")

### Soils

- Planter (soil media and underdrain) designed to drain within 24 hours

## Site Applicability

- Rural Use: Not applicable for use in rural areas
- Suburban Use: Suitable for use on most suburban commercial development
- Urban Use: Suitable for use on urban commercial/business/residential development
- Construction Costs:           Low           Medium   High
- Maintenance:                   Low           Medium   High