

# Simple Downspout Disconnection Feasibility Checklist

## Stormwater BMP Category

- Receiving Low Impact Development Practice

## SWM Credits

- SWM Criteria #1:** Runoff Reduction
  - 60% reduction of  $RR_V$  conveyed through simple disconnection on HSG A/B soils
  - 30% reduction of  $RR_V$  conveyed through simple disconnection on HSG C/D soils
- SWM Criteria #2:** Water Quality Protection
  - 60% reduction of  $RR_V$  conveyed through simple disconnection on HSG A/B soils
  - 30% reduction of  $RR_V$  conveyed through simple disconnection on HSG C/D soils
- 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

- $\leq 2,500$  ft<sup>2</sup> (rooftop area) per disconnection
- $\leq 75'$  length of flow path in contributing drainage area

### Surface Area of Simple Disconnection

- $\geq 15'$  minimum; or
- $\geq$  Length of flow path in contributing drainage area
- $\geq 1\%$  and  $\leq 5\%$  slope within the 'receiving' simple disconnection

### Water Table

- No restrictions
- Shallow water table: consider use of rainwater harvesting or wet swale in areas where shallow water table causes surface ponding

### Soils

- No restrictions (although simple disconnection on HSG A/B soils provide greater benefits; consider soil restoration in HSG C/D soils)

## Site Applicability

- Rural Use: Suitable for use on most rural (large lot) developments
- Suburban Use: Suitable for use on most suburban developments (e.g., designated open space areas)
- Urban Use: Generally not suitable due to lack of green space and sheet flow in urban/commercial areas; however, alternative disconnections (rain gardens, rainwater harvesting) may be used.
- Construction Costs:      Low      Medium      High
- Maintenance:              Low      Medium      High