

Infiltration Feasibility Checklist

Stormwater BMP Category

- Receiving* Low Impact Development Practice
- Stormwater Management Practice

SWM Credits

- SWM Criteria #1:** Runoff Reduction: subtract 100% of storage volume from RR_V
- SWM Criteria #2:** Water Quality Protection: subtract 100% 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

- ≤ 2 acre Contributing Drainage Area (CDA) to the BMP
- > 2 acres CDA to the BMP with conditions:
 - Robust pretreatment design
 - Evenly distributed impervious drainage area (timing of contributing runoff)
 - Large storm bypass; energy dissipators; overflow structure

Surface Area of Infiltration Practice

- 5% of the size of the contributing drainage area

Site Topography

- $\leq 6\%$ (average) slopes in the CDA
- $> 6\%$ (average) with provisions to address runoff velocity & soil erosion and sedimentation

Depth of BMP

- $\geq 3.75'$ total depth infiltration basin: surface ponding (9") & planting bed (3'); or
- $\geq 2.25'$ total depth infiltration basin with shallow WT: surface ponding (9") & planting bed (1.5')
- $\geq 3.0'$ total depth infiltration trench)
- $\geq 1.5'$ total depth infiltration trench with shallow WT: stone reservoir (18")

Water Table

- $\geq 2'$ separation (bottom of practice to SHWT)

Soils

- $\geq 0.25''/\text{hr}$ infiltration rate (designed to drain in 48 hours)

Site Applicability

- Rural Use: Suitable for use on rural developments
- Suburban Use: Suitable for use on suburban residential and commercial developments
- Urban Use: Suitable for use on most urban commercial/business/residential developments
- Construction Costs: Low Medium High
- Maintenance: Low Medium High