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

**Depth of BMP**
- ≥ 3.75’ total depth infiltration basin: surface ponding (9”) & planting bed (3’); or
- ≥ 2.25’ total depth infiltration basin with shallow WT: surface ponding (9”) & planting bed (1.5’)
- ≥ 3.0’ total depth infiltration trench
- ≥ 1.5’ total depth infiltration trench with shallow WT: stone reservoir (18”)

**Water Table**
- ≥ 2’ separation (bottom of practice to SHWT)

**Soils**
- ≥ 0.25”/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

<table>
<thead>
<tr>
<th>Construction Costs:</th>
<th>Low</th>
<th>Medium</th>
<th>High</th>
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<tbody>
<tr>
<td>Maintenance:</td>
<td>Low</td>
<td>Medium</td>
<td><strong>High</strong></td>
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