Green Roof Feasibility Checklist

### Stormwater BMP Category
- ✔ Low Impact Development Practice
- ✔ Alternative to Impervious Surfaces

### SWM Credits
- ✔ SWM Criteria #1: Runoff Reduction – 60% reduction of $R_{RV}$ conveyed through green roof
- ✔ SWM Criteria #2: Water Quality Protection – 60% reduction of $R_{RV}$ conveyed through green roof
- ✔ 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

#### Drainage Area
- ☑ Replaces traditional rooftop impervious surface
- ☑ Contributing drainage area is limited to the area of the green roof (and any minor ancillary rooftop surfaces)

#### Slope
- ☑ ≤ 10% roof slope
- ☑ ≤ 25% roof slope with provisions for installation and anchoring of trays or other modular system

#### Depth of Green Roof System
- ☑ 6” to 12” to accommodate media, drainage layer, and roofing membrane

#### Soils
- ☑ Engineered growing media: 80% lightweight aggregate growing media, 15% organic material, 5% sand

### Site Applicability
- ☑ Rural Use: May be suitable on certain structures in rural areas
- ☑ Suburban Use: Suitable for use on most suburban structures
- ☑ Urban Use: Suitable for use on most commercial/business structures in urban areas
- ☑ Construction Costs: Low  Medium  High
- ☑ Maintenance: Low  Medium  High