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 RR_V conveyed through green roof
- ☑ **SWM Criteria #2**: Water Quality Protection – 60% reduction of RR_V 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