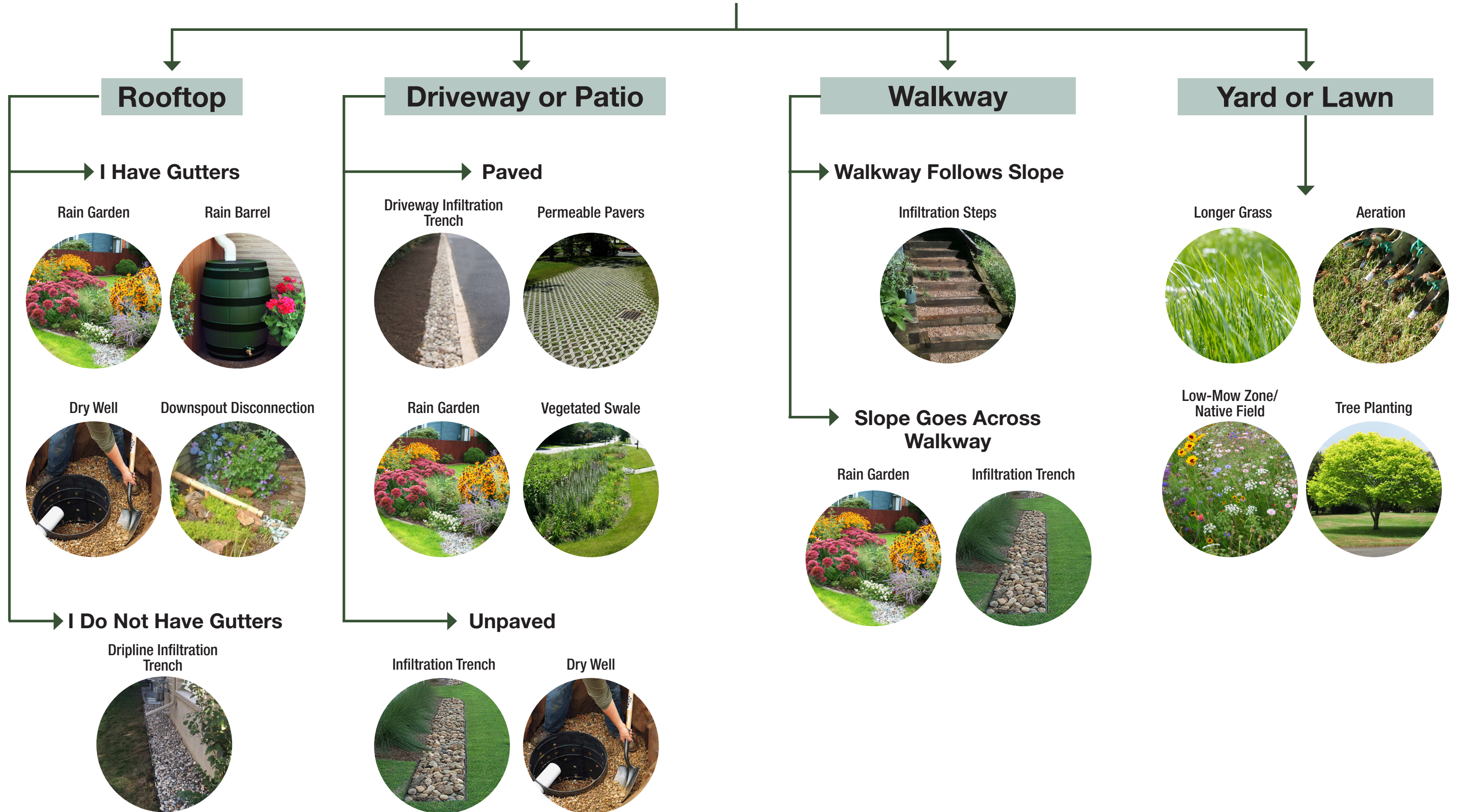
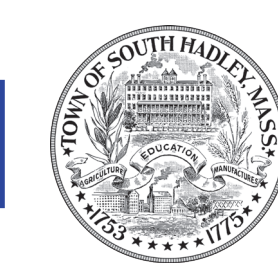


I WANT TO TREAT STORMWATER FROM MY...



SOUTH HADLEY HOMEOWNER'S DIY STORMWATER RESILIENCE



LOW IMPACT DEVELOPMENT (LID) PRACTICES

- Mirror the way rain and melting snow have historically behaved on a property (before homes, driveways, yards)
- Filter nutrient pollutants out of stormwater runoff
- Reduce urban heat impacts
- Mitigate small localized flooding
- Provide habitat space
- Protect aquatic habitat

INFILTRATION



Infiltration Trench

EVAPOTRANSPIRATION



Plant a Tree



Rain Barrel



Dry Well



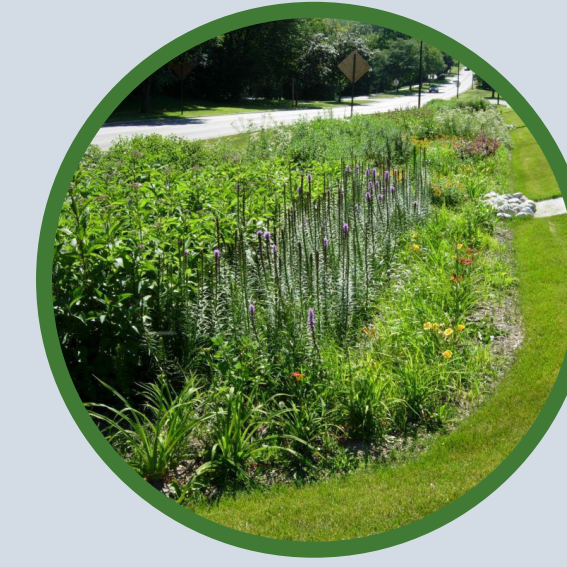
Rain Garden



Re-use Stormwater

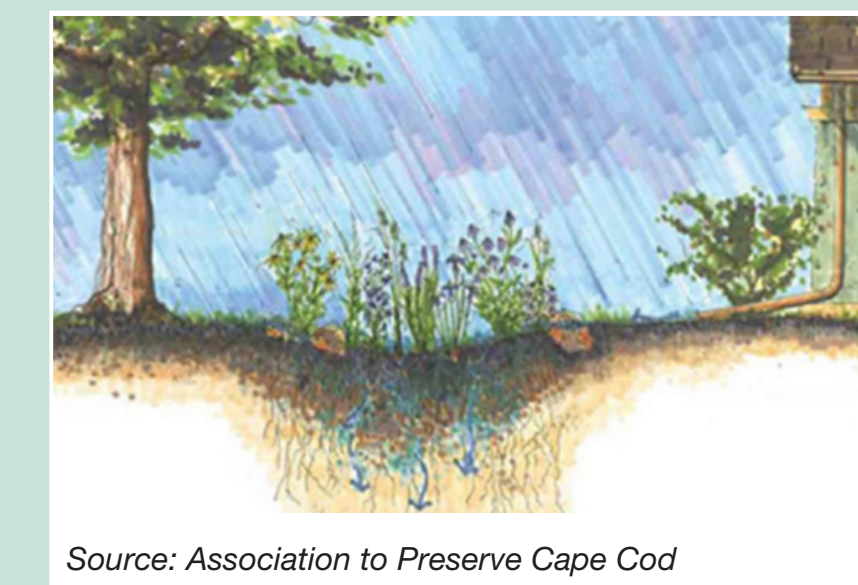
VEGETATED SWALE

- Open channel lined with vegetation
- Conveys runoff from a slope



RAIN GARDENS

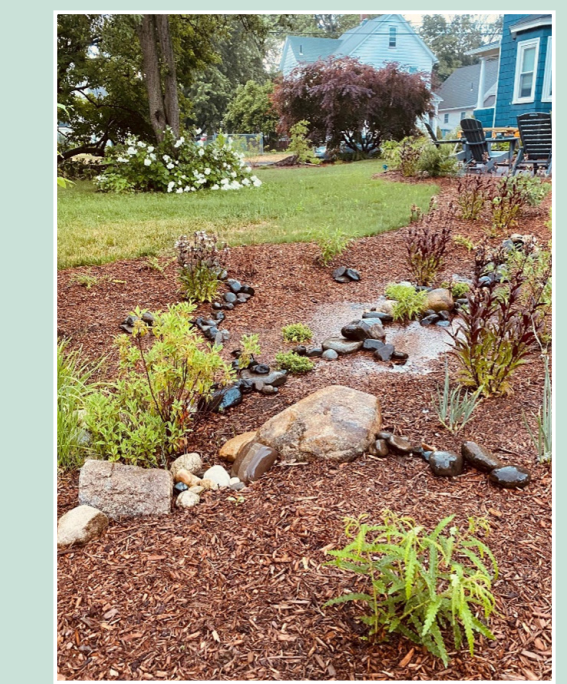
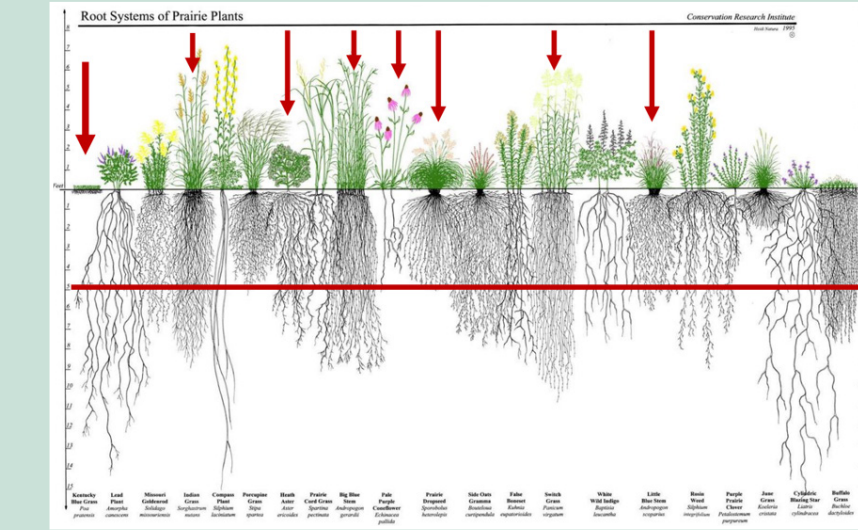
- Depressed area planted with deep-rooted native plants
 - Soak in excess nutrients
 - Break down pollutants
 - Hold nutrients in place & out of drinking water
- Collects water from downspouts, driveways
- Addresses ponding/puddling



Source: Association to Preserve Cape Cod



Right Plant, Right Place



RAIN BARREL



- Not limited to one rain barrel
- Secure to firm, level surface
- Connect downspout
- Address overflow
 - swale, splashguard, soaker hose away from foundation



DOWNSPOUT DISCONNECT

- Redirects runoff to vegetated area, away from paved areas
- Convey water by lining trench leading away from downspout



DRIPLINE INFILTRATION TRENCH

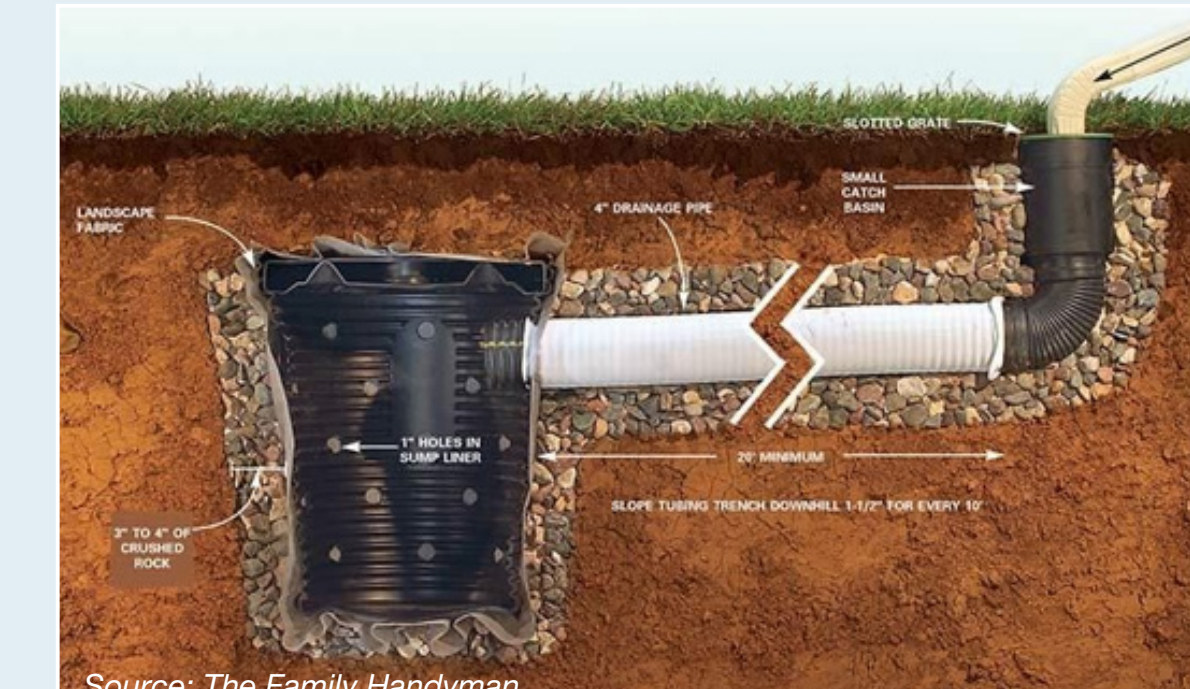
- Infiltrates stormwater from shed, garage or roof without gutters
- At least 8" depth, 12-18" wide



Source: Acton Wakefield Watersheds Alliance

DRY WELL

- Collects runoff from downspouts or gutter



Source: The Family Handyman

INFILTRATION TRENCH

- Collects runoff from driveway or slope and infiltrates into ground
- Addresses ponding
- Can convey flow if lined



PERMEABLE PAVERS

- Alternative to impervious driveway or patio

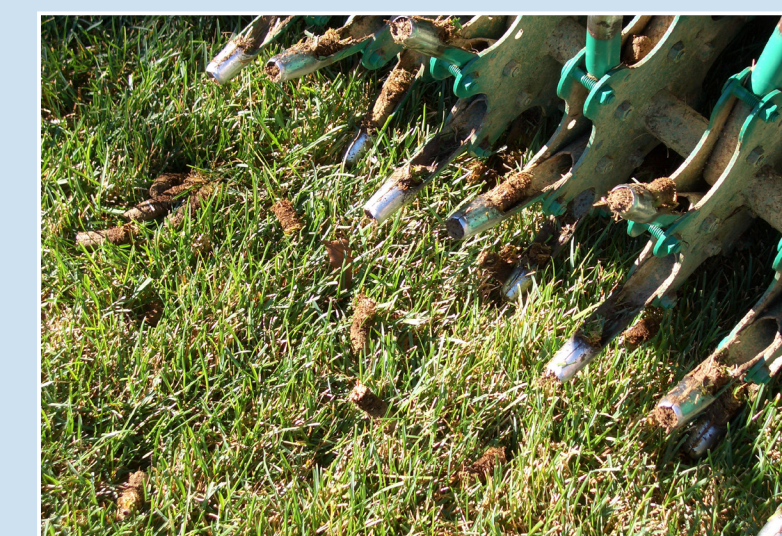
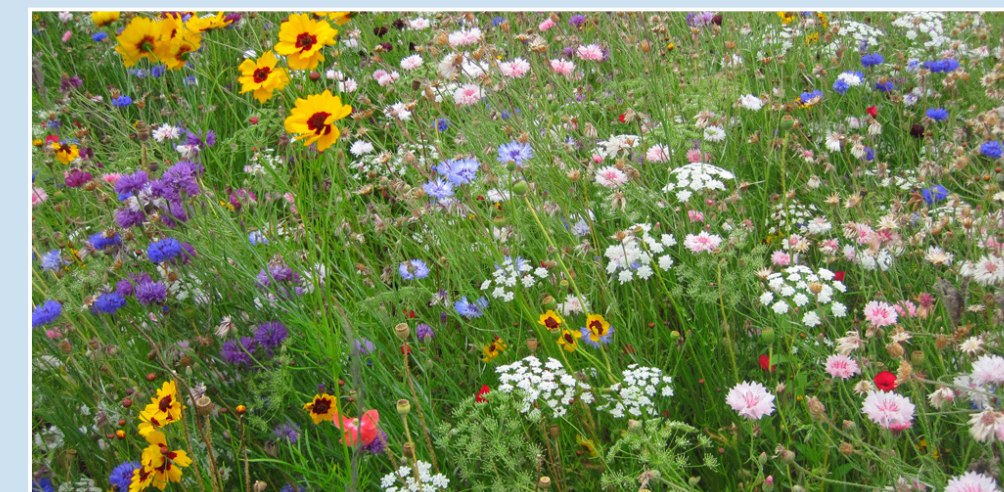


Source: Custom Stoneworks and Design



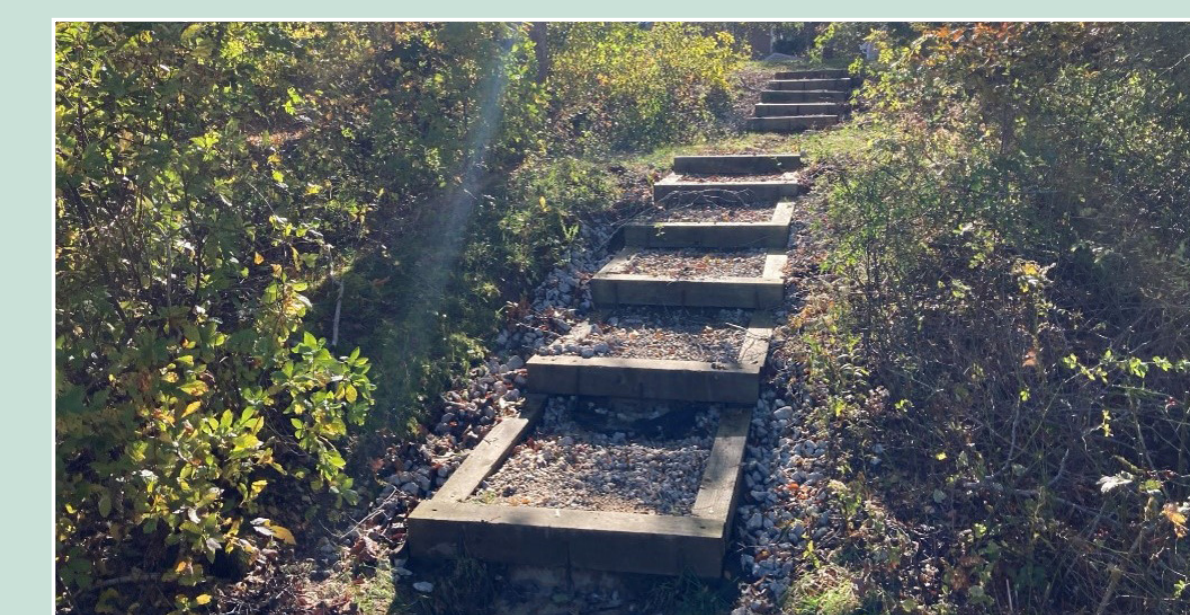
LAWN CARE PRACTICES

- Mow longer
- Mow less
- Leave clippings
- Reduce turf grass
- Plant native species
- Aerate soil
- Plant trees
- Plant during spring and fall
- No fertilizer



INFILTRATION STEPS

- Works as functional staircase
- Increases infiltration













































VEGETATED BUFFER










- Don't mow to edge of stream
- Don't rake leaves into stream
- Leave natural settings alone



DO-IT-YOURSELF STORMWATER MANAGEMENT SOLUTIONS

Solution	Cost	Space Required	Ease of Installation	Ease of Installation	Primary Benefits
Downspout Disconnection	\$				Conveys water away from impervious surfaces; Use if your downspout can easily be redirected to a vegetated area, dry well, or rain barrel
Dripline Infiltration Trench	\$ \$	 OR 	 OR 		Great approach for homes without gutters to reduce ponding; recharges groundwater
Driveway Infiltration Trench	\$ \$	 OR 	 OR 		Addresses ponding areas near driveways; recharges groundwater
Dry Well	\$ \$		 OR 		Great option for poorly drained soils; low maintenance once installed
Infiltration Steps	\$ \$ \$		  OR 		Enhances visual aesthetics; works as functioning staircase; great for moderate slopes
Permeable Pavers	\$ \$ \$	 OR 	 	 	Enhances visual aesthetics; Increase infiltration and groundwater recharge; reduce runoff
Rain Barrel	\$				Conserves water; captures and reuses stormwater; reduces water bill for outside watering
Rain Garden	\$ \$ OR \$ \$ \$		 	 	Provides wildlife habitat; low-maintenance after first few years; aesthetic value
Vegetated Swale	\$ OR \$ \$		  	 	Enhances aesthetics; Conveys water on a slope that might be causing erosion, provides a location for snow storage

KEY:

Cost	
Minimal (< \$100)	\$
Moderate (\$100-\$500)	\$ \$
High (>\$500)	\$ \$ \$
Space Required	
Minimal (requires a parking stall (300-350 ft ²) or less area)	
Moderate (requires approximately two parking stalls of area, 600-700 ft ²)	
High (requires more than two parking stalls of area, >700 ft ²)	
Ease of Installation	
Minimal (requires 1-3 hours)	
Moderate (requires a half day)	
High (requires a full day or more)	
Ease of Maintenance	
Minimal (requires inspection/maintenance a couple of times per season)	
Moderate (requires inspection/maintenance 1-2 times per month)	
High (requires weekly inspection/maintenance)	

NOTE:

Many of these factors can vary based on the size of the area that you are trying to manage and/or the amount of runoff that you are trying to address.