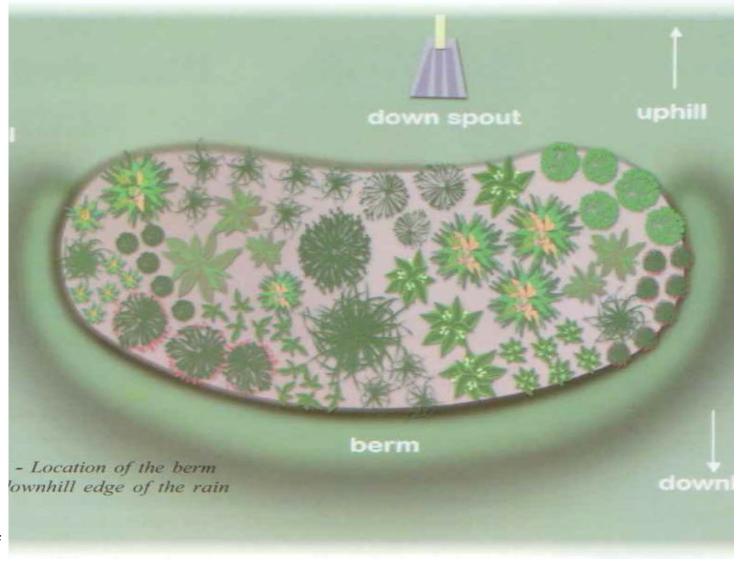
Rain Gardens & Ponds

Tools to control rainfall runoff: Rain Gardens and Wet Ponds

Rain Garden

- A rain Garden is
 - A 6" to 8" depressed garden
 - Perpendicular to the slope of the land
 - Filled with soil having high organic content to absorb water
 - Planted with vegetation that thrives in moist environments
 - Sized to handle the rain runoff from a typical storm from a roof or impermeable surface.
- A rain garden will slow the accumulated runoff downslope.
- Reference:

https://www.uvm.edu/seagrant/sites/default/files/uploads/publication/VTRainGardenManual_Full.pdf



Rain Garden Location Guide

- If capturing roof runoff, place the garden about 10 feet away from the building to prevent potential water seepage into the basement.
- Do not place a rain garden over a septic tank or leach field.
- Do not place a rain garden near a drinking water well.
- Call Dig Safe® at 1-888-DIG-SAFE at least three days before digging to avoid underground pipes and utilities.
- Check for any private wiring or underground utilities such as driveway lights and sheds with electricity.
- Select a gently sloped area if possible to make installation easier.
- Do not place the rain garden in a naturally wet area; a sign of poor drainage.
- Avoid disturbing tree roots. Trees may be injured by digging and may not tolerate the additional soil moisture.

Wet Ponds For Storage

- Wet Ponds have a permanent pool of water and have the capacity to temporarily store stormwater runoff and release it at
 a controlled rate; provide flood control; and provide water quality treatment. Properly sized and maintained, wet ponds can
 achieve high rates of removal for a number of urban pollutants, including sediment and the pollutants associated with
 sediment, such as trace metals, hydrocarbons, biological oxygen demand (BOD), nutrients, and pesticides. They also
 provide some treatment of dissolved nutrients, through biological processes.
- **Sizing**: Wet ponds must detain, above the permanent pool, a runoff volume equal to 1.0 inch times the subcatchment's impervious area plus 0.4 inch times the landscaped developed area to be released over a 24 to 48 hour period
- Siting: The wet pond should be suitable to prevent seepage, environmental impact or posing a hazard to downstream
 property or life. Practically, the pond should be lined with an impermeable layer such as clay or a membrane. An overflow
 discharge should be provided.
- **Reference:** https://www.maine.gov/dep/land/stormwater/stormwaterbmps/vol3/chapter4.pdf

