

# Stormwater Attenuation

Civil Engineering

Making a built site discharge slowly.

*Store the volume, restrict the release, treat what leaves.*

## Storage

Detention basin, dry between storms

Retention pond, permanently wet

Oversized pipes or geocellular crates

Blue roof holding water on the deck

Flow control sets the release rate

## Infiltrate and treat

Permeable paving over a storage layer

Swale conveying slowly and filtering

Soakaway where the ground will take it

Silt trap ahead of anything that clogs

A treatment train before a sensitive outfall

Educational reference. Discharge rates, treatment and adoption terms are set by the drainage authority and the regulator.