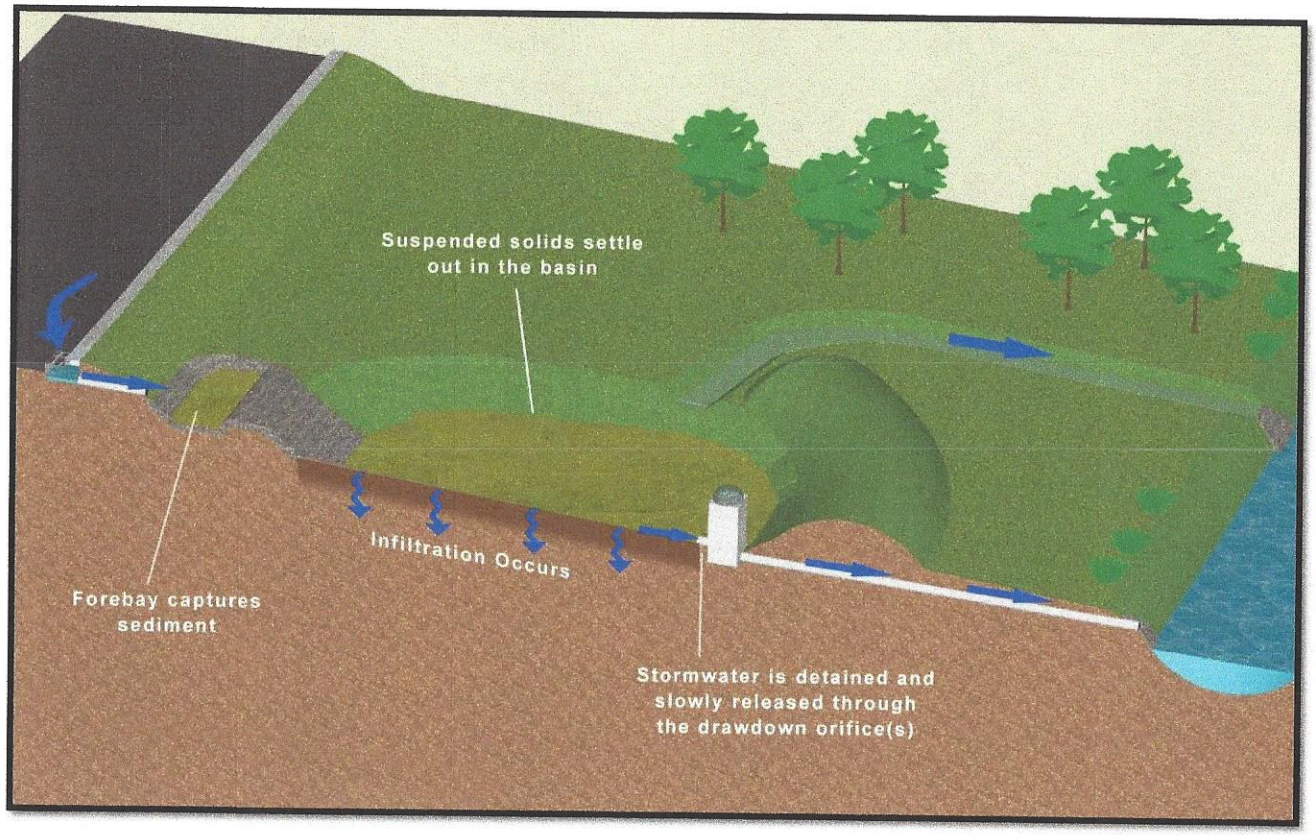
Dry Detention Basin

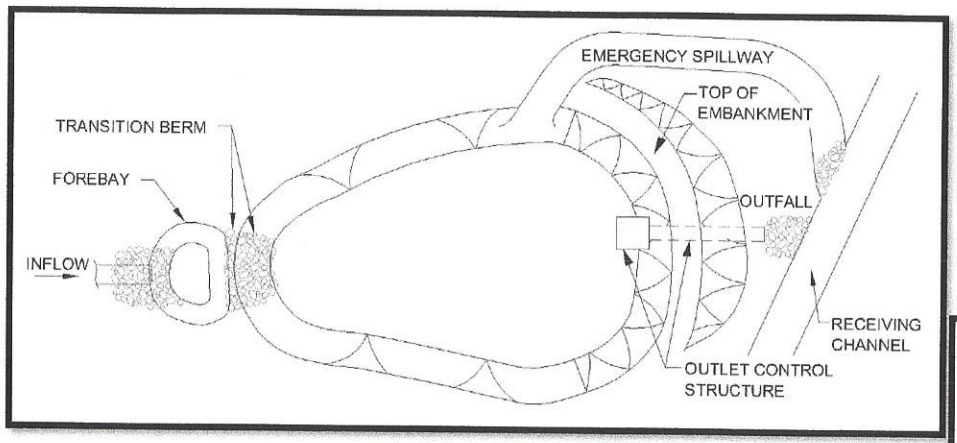
- **Designed to temporarily store and slowly release stormwater**
- **Should remain dry between storm events, drain 2-3 days**
- **Reduces flooding and erosive velocities**
- **Improves water quality by allowing contaminants to settle out**
- **Landscape feature**

CHATHAM COUNTY INSPECTION AND MAINTENANCE REQUIREMENTS, STORMWATER DRY DETENTION BASIN

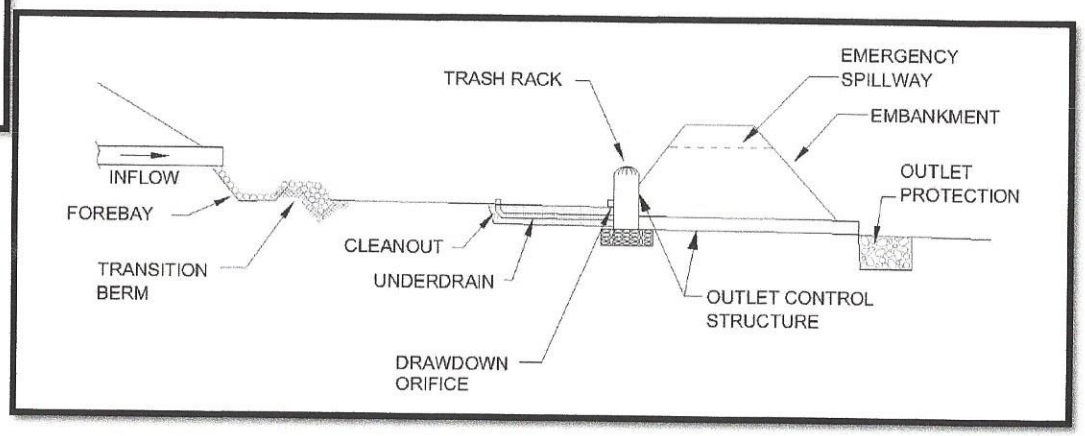
Dry Detention Basin



Dry Detention Basin



Plan view



Profile view

Dry Detention Basin

Inlet System - How runoff gets to the Dry Detention Basin
Consists of ditches, pipes, stone verges or curb & gutter

What to Look For:

- **Inspect pipes for cracks or other damage**
- **Ensure pipes aren't clogged with sediment, debris or trash**
- **Inspect ditches for erosion/gullies and invasive vegetation**
- **Inspect stone for sediment buildup**

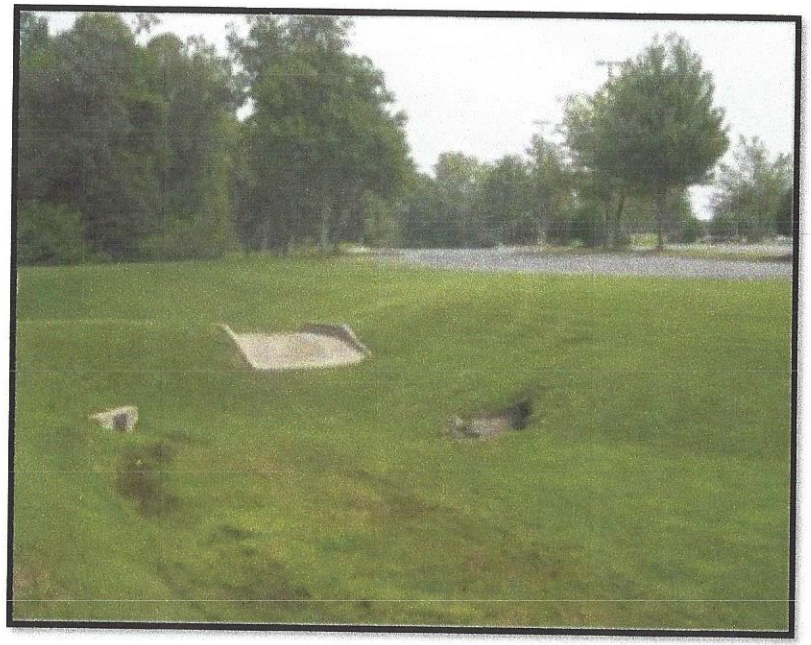
Dry Detention Basin

Forebay - Pretreatment Area

Slows down the flow entering the device, allowing sediment to settle

What to Look For:

- **Inspect for sediment accumulation – should be less than 50% of storage capacity**
- **Inspect for erosion/gullies**
- **Inspect for trash, debris and invasive vegetation**
- **Inspect embankment and transition berm for structural integrity and erosion**



Dry Detention Basin

Main Treatment Area – Reduces the rate of runoff and allows suspended solids to settle

What to Look For:

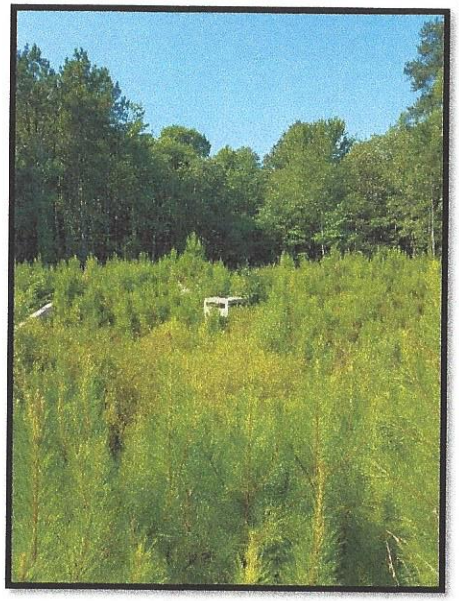
- Ensure basin floor has established turf grass mowed 6-15" or landscaped
- Inspect depth of sediment accumulation (design depth ~ 6 inches)
  - Remove sediment if depth is approaching drawdown orifice
- Inspect for invasive vegetation
- Ensure pond does not hold water greater than 5 days after a storm event
  - If it does, there may be a clog in the outlet system

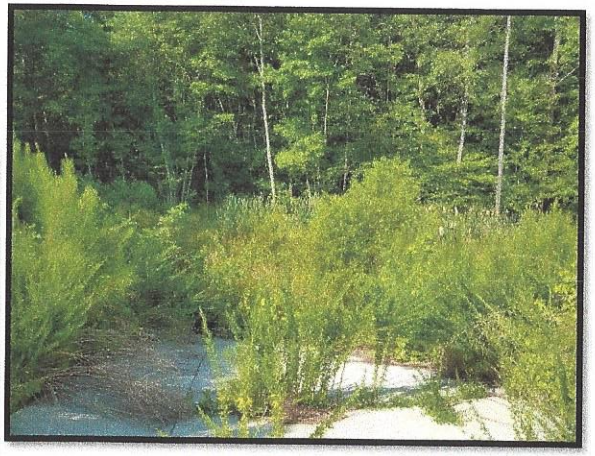
Dry Detention Basin

Embankment and Spillway – Walls of basin to temporarily contain the stormwater and spillway to allow a release in overflow

What to Look For:

- **Inspect for signs of burrowing animals or beaver activity**
- **Inspect vegetation present and ensure proper maintenance (mow grass 6 – 15")**
- **Growth of tree roots may impede structural integrity**
- **Inspect for erosion and inadequate vegetation cover**
- **Inspect riprap/concrete spillways**





Dry Detention Basin

Outlet Device – Slowly drains stormwater from basin downstream, between 2-5 day drawdown time

What to Look For:

- Inspect for structural damage
- Inspect pipes for damage
- Inspect for clogging of drawdown orifice
- Inspect trash rack on overflow structure for debris
- Inspect and lubricate sluice gate, if applicable