

# Parts of the Plan



The storm water features at Waterford Oaks all work together to improve water quality in the Clinton River Watershed. The project includes the area from the Administration Offices parking lot and adjacent buildings to the Pontiac Creek wetlands.

A series of storm water collection and filtration devices demonstrate Best Management Practices in Low Impact Development. Detention ponds and underground drains mitigate the adverse affects of stormwater runoff. The end result is that 100% of the storm water runoff at Waterford Oaks is captured, filtered and cleaned before entering the tributaries of the Clinton River during storms.

## Designed to Stop Runoff

### Detention Ponds

Gravity fed detention ponds function like rain gardens by collecting and detaining storm water runoff. These ponds also provide an aesthetic habitat for wildlife.



Detention Pond #1 adjacent to the parking lot intercepts unfiltered storm water runoff flowing into an adjacent natural wetland.

### Open-bottom Underground Pipes

A series of open-bottom underground drain pipes transports the water between ponds. The special design of these pipes promotes groundwater recharge and filtration.



**No Mow Zones** around the ponds slow storm water runoff. They also serve as buffers around the detention ponds, minimizing soil erosion and sedimentation, and provide wildlife habitat.



### Natural Wetland Filters

The storm water leaving the chain of detention ponds moves into a wetland which is a remnant of a previous swamp. Natural wetlands serve many of the same functions as the installed storm water features, helping retain, filter and clean the water as it moves through the water cycle.



### The Chain of Detention Ponds

The detention ponds are replenished by groundwater. Pre-settlement maps show that a mixed conifer swamp was once found on this portion of the property.

Restoring some of the hydrological function of parklands is part of the natural resources stewardship management plan. In addition, these areas may be used for future wetland mitigation.



### Watershed Learning Link

Many people throughout the Clinton River Watershed rely on groundwater for their drinking water. More than 73,000 Waterford Township residents receive their drinking water from 13 wells within the township. Look for this link to learn more about storm water features at Waterford Oaks County Park and the Clinton River Watershed as you walk through the park.

