

# Pipes



Pipes are underground conduits for stormwater conveyance. Pipes come in various shapes and sizes, and are made of different types of materials. The permissible construction design for pipe ends varies significantly too, as a result pipe ends don't always look similar.

# Pipes With Problems



Cracked or rotting pipes cause sink holes at the surface. The dirt missing from around the pipe is now inside the pipe and blocking flow. The only solution is to replace the pipe.

## Know the Signs



# Pipe Ends Can Get Damaged

Not much water is going through here



Concrete pipes or pipe ends are stronger and not as easily damaged by vehicles



# Protected Pipe Ends



Concrete headwall protecting pipe ends from being crushed

Concrete apron protecting pipe end





# Pipe Ends Need Regular Cleaning

**A clear pipe end...**



**...can look like this  
after a hard rain...**





**...and after 40 years could be buried if not maintained.**





# Importance of Pipe Ends

Pipe ends are “choke points” for debris to accumulate. It’s important to remove the debris before it enters the pipe since special equipment is needed to remove it from inside.

Plan to remove plant litter in May before the rainy season (June-Nov).



Continue to remove plant litter at pipe ends regularly during the rainy season (May-Oct).

Keeping this plant litter from working downstream and into your pond will improve pond aesthetics and lower the cost of its maintenance.





Jet-Vac trucks to clean pipes are the alternative to preventing plant litter and sediment from accumulating at pipe ends.