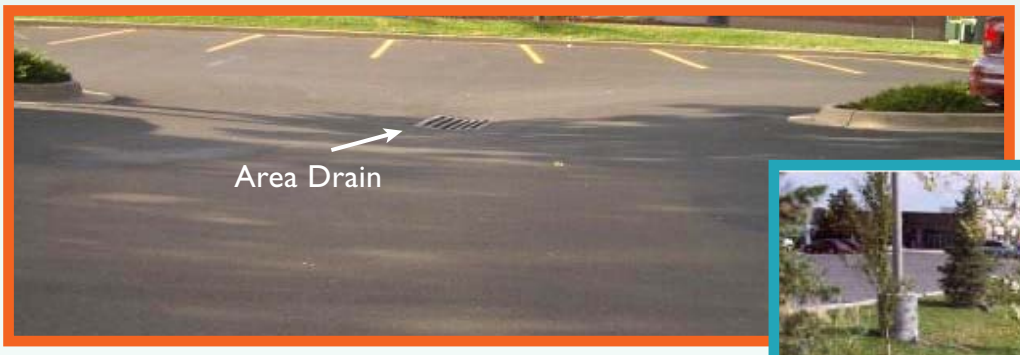
CLEAR CREEK COUNTY

Stormwater Management on Commercial Areas

Problem:

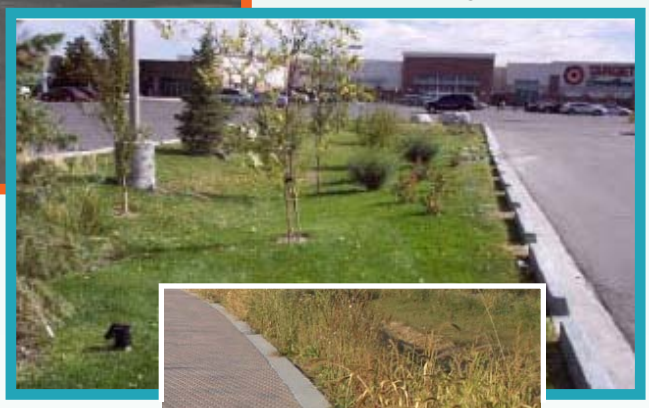
Conventional engineered systems are designed to drain water resources.....



A combination of roads and parking areas with raised curbs and raised landscape islands increase stormwater runoff and miss opportunities for infiltration.

Solution:

.....promoting infiltration



Solutions include promoting *INFILTRATION* with:

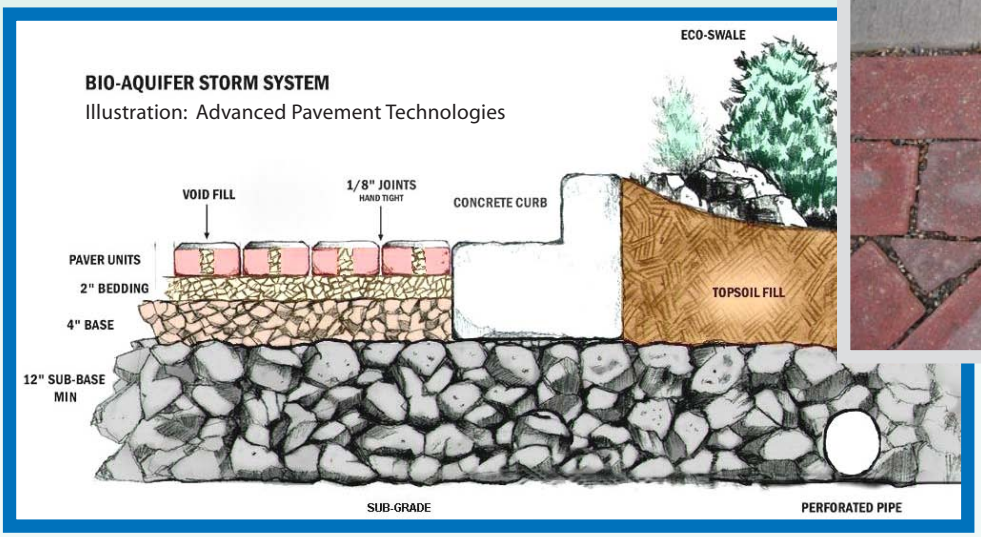
- **Permeable pavement systems such as permeable pavers, pervious asphalt and porous concrete that don't produce runoff.**

- **Flush curbs, wheel stops and curb cuts to reduce conveyance and concentration of runoff.**

- **Sumped landscaping to allow runoff to flow into landscape areas.**

Please contact Clear Creek County staff at (303-679-2421) to discuss stormwater runoff reduction practices applicable to commercial development.

Permeable pavement systems: all use layers of open-graded aggregate for structural loading and to provide void space for infiltration



Aggregate sub base and base courses are used for pervious concrete and porous asphalt wearing courses. Permeable interlocking concrete paver installations require additional aggregate setting bed and joint fill.

Curbing Changes and Sumped Landscaping:

Multiple curb cuts allow flow into sumped landscaping without causing scour.

Flush curbs allow sheet flow into native landscaping, or into adjacent infiltration BMP's

Single entry curb cuts are appropriate when landscaping and pavement elevations are similar.

Bollards are used instead of raised curbs to protect vegetation infiltration areas.