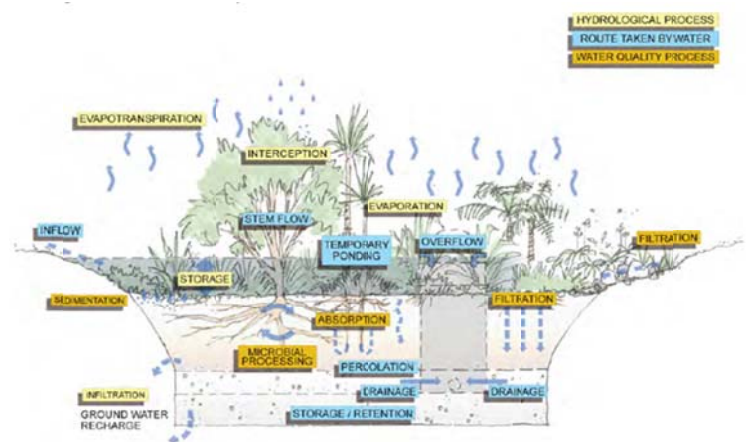
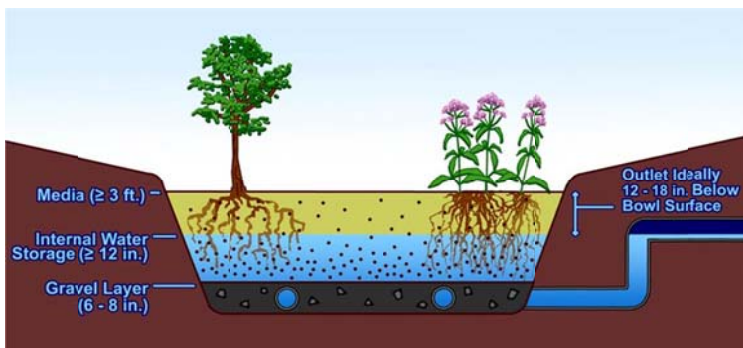
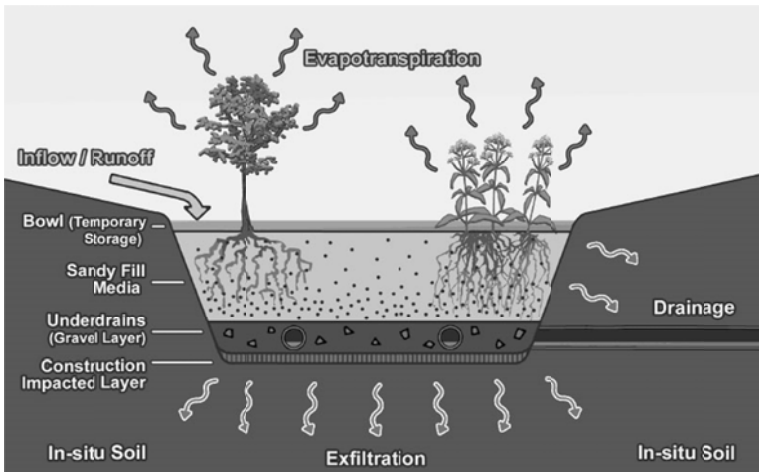


Umstead State Park Forested Rain Garden Site Location and Design Schematics

William B. Umstead State Park. Park entrance off Harrison Avenue/I-40 is called the “Reedy Creek Park Entrance.”



William B. Umstead State Park, Harrison Avenue parking lot. Stormwater runoff from the entire parking lot will be treated with two forested bioretention cells using the lower half of the two center medians. Trees will also be planted in the other medians for shade and habitat. Photo to right is typical, showing the area popularity.



Forested bioretention cell schematics. This project will employ internal water storage to increase nitrogen reduction through increased denitrification with increased residence time, decreased outflow water volume, and decreased temperatures of water flows to the receiving streams.



Google Earth. The blue outline indicates stormwater drainage area that will be captured and treated by the 2 rain gardens located in the 2 large parking lot medians.