

### Underground Detention

- 1) System shall be manufactured open bottom chamber sections for distribution and storage in a multi-row configuration, embedded in clean, uniform aggregates 3/4" to 1-1/2" based on manufacturers recommendations.
- 2) The number of open bottom chamber sections shall be according to manufacturer's recommendations for adequate sediment and floatables containment.
- 3) Chambers are to be set level over a clean gravel bed.
- 4) System shall incorporate an isolation row as the first row to receive first flush flows. Isolation row to be at the same flowline as the entire chamber field; woven filter fabric lining layer shall be placed under the chambers designated for the isolation row; inspection ports shall be placed at both ends of isolation; and access for cleaning isolation row shall be provided.
- 5) Low flow shall transit the isolation row; provide pretreatment to separate sand and floatables from system.
- 6) For tributary areas larger than 2 acres system shall have an emergency bypass route.
- 7) Void space of gravel bedding may be counted as part of the required detention volume; void space of gravel up to 1 foot below the outlet may be counted as part of the required detention volume.
- 8) Trees must be at least 40 feet away and shrubs must be at least 15 feet away from edge of gravel bedding.