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.