## **Biofiltration with Elevated Underdrain**

but then leaves via an elevated underdrain. at the bottom of the basin; the remainder is filtered by the growing medium infiltration or evapotranspiration compared to bioretention with an underdrain overflow structure is abstracted from the stormsewer system through More of the runoff that flows into the basin and does not overflow into an

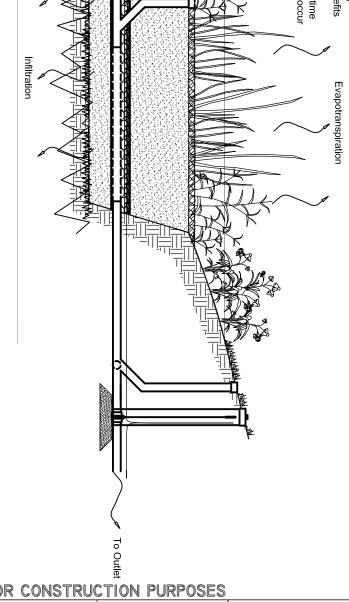
under anoxic condition). allows runoff to cool more before discharge and allows denitrification to occur thermal pollution abatement and nitrogen removal (longer retention time than biofiltration with an underdrain with upturned elbow (2) improves underdrain invert, resulting in slightly less volume and water quality benefits underdrain at the bottom, but likely some flow short circuits media below allows for more Infiltration and evaporation compared to biofiltration with Because elevating the underdrain increases hydraulic retention time, it (1)

> with restricted outlet depth. With an elevated outlet, biorfiltration can be added as retrofits in more areas

Requires more aggregate than biofiltration with upturned elbow

Date Designed

be beneficial. In-situ soils must have adequate permeability for an elevated underdrain to



Not To Scale

Figure 2-3: Biofiltration with Elevated Underdrain

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|    | I hereby certify that this plan was prepared<br>by me or under my direct supervision and that | NO. | REVISION DESCRIPTION | DATE | BY |
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|    | I am a duly Licensed Professional Engineer  |     |                      |      |    |
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