(RESIDENTIAL USE ONLY)

BEST MANAGEMENT PRACTICE

INfiltration Basin

GUIDELINE: Basin length = 2 x basin width or greater with long side perpendicular to the slope

Check dam (A) and stilling basin (B) min. width=1/2 of basin top width

Inflow from Swale or slotted Channel Drain

Excessation limit where side slopes intersect existing grade

Plan view

Profile

Bottom length

Bottom width

Top length

D = Basin depth

Original grade

Mowable turf

Basin bottom vegetate and/or mulch (no rock for ease of maintenance)

Embankment Basin Option

Excavated infiltration basins shown are limited practically to sites with less than 5% slope. Consult an engineer for basins on sites with greater than 5% slope. A combination of embankment and excavation could reduce the amount of soil excavation and off haul. Obtain engineer's plans and specifications for acceptable fill, compaction, armored overflow spillway, and required freeboard.

Notes

1. Excavate basin to the site specific basin dimensions (L, W and D) and maximum slope requirements. Refer to the BMP "Site Evaluation Recommended Treatments" form or other approved BMP sizing calculations. Follow guidelines on NRCS "Installing Infiltration Basins" tip sheet. Side slopes may be rock lined or vegetated.

2. For optimal performance, install one of the three sediment traps.

3. Salvage top soil and re-usable vegetation for basin bottom and slopes when clearing the site in preparation for excavation.

4. Bottom of basin must be level. On sloped sites, effective depth is measured on the downhill end of the basin.

5. Regularly scheduled maintenance is necessary to maintain full function. Inspect in spring, fall, and after heavy rains. Remove and dispose of debris and accumulated sediment properly.

U.S. Department of Agriculture

Natural Resources Conservation Service

Tahoe Resource Conservation District, and

Nevada Tahoe Conservation District

Drawn By: CLT

Date: 4-6-2012

Approved By:

This Standard Drawing is based on a reference to the NRCS standard practice 570 - Stormwater Runoff Control, 587 - Structure for Water Control, and 350 - Sediment Basin. This drawing is intended to assist the designer in preparation of a complete site specific design, and it is not to replace the independent judgment and analysis by a qualified designer. Infiltration system sizing is calculated based on the hydraulic conductivity of the soils on site and volume of runoff being captured. USDA is an equal opportunity provider and employer.