MAINTENANCE AND OPERATION SCHEDULE

1. Drainage systems must be inspected at routine intervals to ensure that they are functioning properly. Inspection shall be done on a scheduled basis but should always be conducted following major storms, to remove accumulated trash, debris, and debris. The collection of trash and debris shall be done by the homeowner association.

2. The County shall inspect the infiltration basin; any repair required shall be done by the County and the Home Owners Association.

3. Whenever the fill has accumulated more than 4 inches in the basin, the infiltration basin shall be cleared of all debris. Removal shall be done in accordance with sediment removal in Item 5 below.

4. At any time when the fill appears does not drain completely within 48 hours, corrective maintenance will be required which shall be the responsibility of the County and/or the Home Owners Association.

5. At least once a year, the infiltration basin shall be filled to restore the natural infiltration capacity of the basin. Prior to filling, remove sediment. Sediment removal shall only be done when basin floor is completely dry, after the fill layer has dried and has settled from the basin floor.

6. If nonwoven geotextile, filling shall be done with roll-over tilter or disc hammers. Light tractors shall be employed for these operations. The use of heavy equipment has caused deeper than normal compaction of the surface. These operations shall be performed by a licensed operator. In its field condition after filling, the embankment material shall be stripped of all nonwoven geotextile and compacted to the existing material to be removed during the future cleaning operations. A rolling drum shall be used to compact the embankment material earth to the top press wire compaction.

7. Through filling shall be done once each season, from mid-January to mid-September.

8. To control vegetation growth on nonwoven geotextile, a pesticide is to be applied during the planting season. Pesticide shall be taken to avoid any sediment accumulation into the basin floor. All filling operation shall be performed by contractors and/or sediment removal.

9. Vegetation on the top and sides shall be trimmed to prevent 18 inches in height at any time. Trimming of the basin's sides shall be done twice a year, once in June and again in September shall be done.

10. After the second year of planting, remove the basin with 10 to 14 years of tested material at a rate of 300 lbs. per acre or 11 lbs. per 1000 sq. ft.

CONSTRUCTION SEQUENCE FOR INFILTRATION BASIN

1. Construct the embankment to the desired height and shape of the basin using the proper compaction equipment and methods. Ensure the fill material meets the required specifications for infiltration performance.

2. Lay the nonwoven geotextile on the fill material, ensuring it is securely held in place. The geotextile serves as a barrier to prevent the entry of sediment into the basin.

3. Fill the basin with a mixture of clean, well-graded fill material. The fill should be compacted to the desired height and shape, following the construction sequence for the basin.

4. During the initial filling, monitor the infiltration rate and adjust the fill rate as necessary to ensure the basin meets the infiltration criteria. This may involve adding or removing fill material to achieve the desired infiltration performance.

5. After initial filling, the basin should be allowed to settle for a period of time, typically a few weeks to a month, to allow the fill material to compact and stabilize.

6. Once the settlement period is complete, perform a final inspection of the basin to ensure all construction requirements have been met. This inspection should confirm the basin's infiltration capacity and overall performance.

7. After the final inspection, the basin is ready for planting and maintenance, following the maintenance schedule outlined in Item 7 above.

This sequence ensures that the basin is constructed and maintained to the required standards for effective infiltration and erosion control.