Infiltration System practice applies where concentrated stormwater runoff is infiltrated underground (e.g. at the end of a pipe, driveway conveyance swale or slotted channel drain, or at a low point). See BMP-006 for other infiltration system components and alternative materials that may apply.

2. For site specific trench dimensions (L, W and D) and backfill requirements, refer to the BMP "Site Evaluation Recommended Treatments" form or other approved BMP sizing calculations. Follow manufacturer's specifications for installation and refer to the NRCS "Installing Infiltration Systems" tip sheet. Allow for 3" drain rock envelope on all sides of prefab. units.

3. Bottom of trench must be level. On sloped sites, effective depth is measured on the downhill side of the trench.

4. Regularly scheduled maintenance is necessary to maintain full function. Inspect in spring, fall and after heavy rains. Remove and dispose of debris, pine needles and accumulated sediment properly. Remove pop-up emitter cover and backflush perforated outlet pipe if needed.

Notes:

- Filter fabric non-woven needle punched overlap 12" minimum sides and top only
- Infiltration system sizing is calculated based on the hydraulic conductivity of the soils on site and volume of runoff being captured.

End View

Outlet distribution pipe HDPE 4" diam. ADS 3000 triple wall perforated sewer and drain pipe with 2 rows of 5/8" holes at 4" O.C. (or equal) place pipe with holes facing up

Pop up emitter NDS 421 or equal

Prefabricated infiltration system or drain rock infiltration system see note 2

GeoGrid (not required for drain rock filled systems)

Concrete encasement as required for traffic load

Drain rock backfill

Drain rock

Concrete encasement

Outlet distribution pipe

Outlet distribution pipe see BMP-050

Sediment trap see BMP-050

Filter fabric

Pop up emitter

Sediment trap

Drain rock

Outlet distribution pipe HDPE 4" diam. ADS 3000 triple wall perforated sewer and drain pipe with 2 rows of 5/8" holes at 4" O.C. (or equal) place pipe with holes facing up

Pop up emitter NDS 421 or equal

Prefabricated infiltration system or drain rock infiltration system see note 2

GeoGrid (not required for drain rock filled systems)

Concrete encasement as required for traffic load

Drain rock backfill

Drain rock

Concrete encasement