

5. The enveloped in-trench sand filter must maintain a minimum of 12 inches above seasonal or normal ground water levels and any other porous limiting layer from the bottom of the filter sand.
6. The enveloped in-trench sand filter must maintain a minimum of 12 inches above any nonporous limiting layer from the bottom of the filter sand.
7. The drainfield shall be sized at 1.7 GPD/ft².

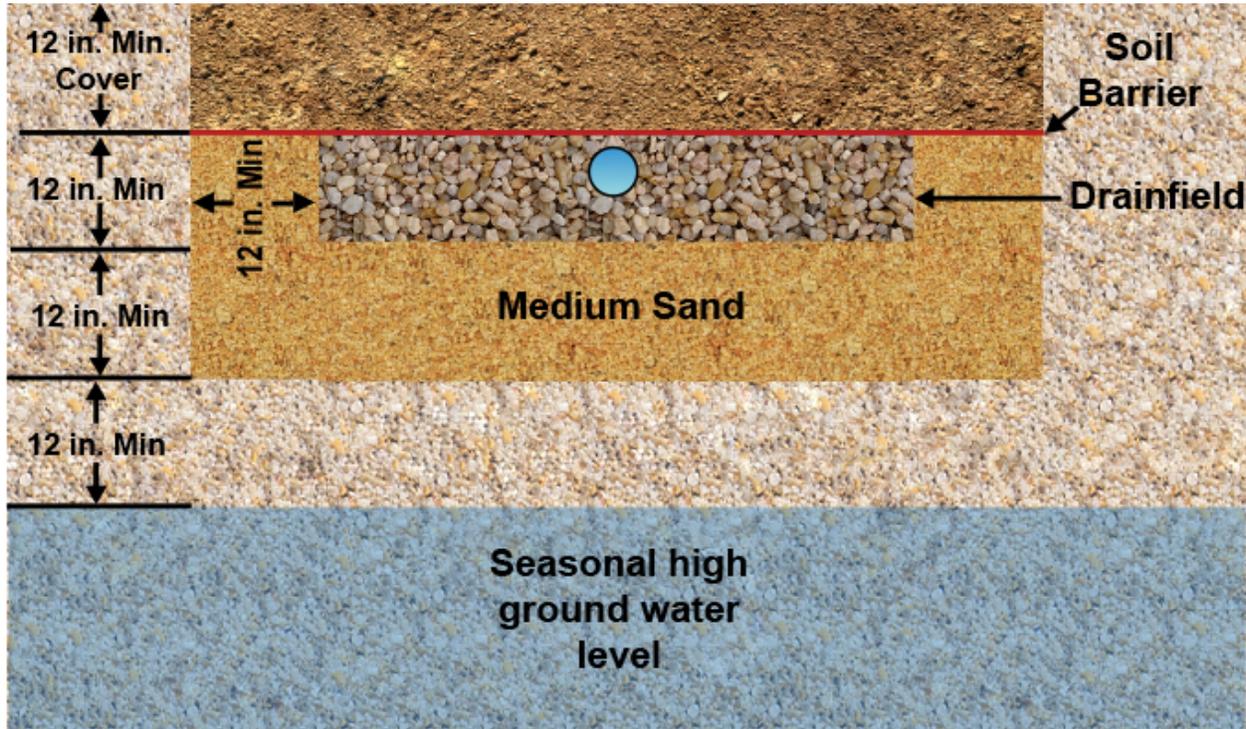


Figure 4-40. Enveloped in-trench sand filter with alternative pretreatment for installation in coarse native soils (i.e., coarse or very coarse sand or gravel).

4.23.3.2.3 Pressurized Enveloped In-Trench Sand Filter Design and Construction

1. The native site soils shall consist of suitable soils no coarser than medium sand or finer than clay loam as described in Table 2-4.
2. The drainfield shall be pressurized and designed according to section 4.19 by a PE licensed in Idaho.
3. The filter sand shall maintain a minimum depth of (Figure 4-41):
 - a. 2 feet below the drainfield in design group C soils.
 - b. 3 feet below the drainfield in design group A and B soils.
4. A minimum of 12 inches of suitable soils must be maintained between the sand filter and an impermeable limiting layer or the normal high ground water level.
5. The pressurized enveloped in-trench sand filter system shall be sized based on the most restrictive native receiving soil between the bottom of the medium sand filter and the normal high ground water level or a porous limiting layer.

6. Reduced separation distances to nonporous limiting layers may not be approved through use of this design.
7. Pressurized enveloped in-trench sand filters installed in suitable soils to obtain a reduced separation distance to ground water or a porous limiting layer must maintain a minimum of 12 inches above the seasonal and normal high ground water levels from the bottom of the filter sand.

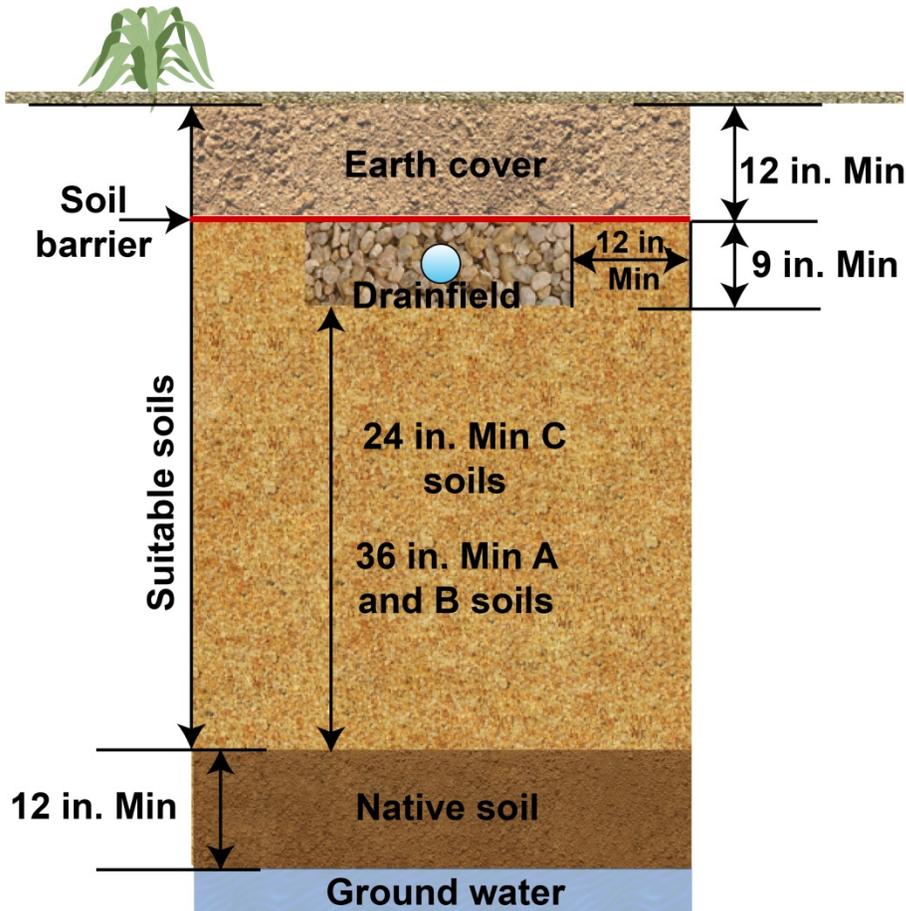


Figure 4-41. Enveloped pressurized in-trench sand filter for installation in suitable soils for a reduction in separation distance to ground water.