## $Q = L^* S^*$ drainage co-efficient (where L is the length of the field drain)

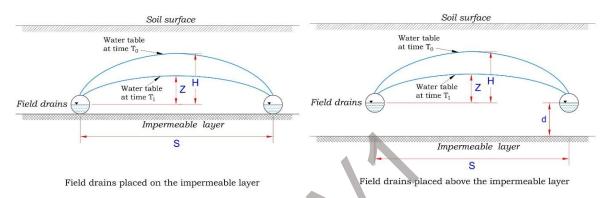


Figure 5-3 - Placement of Field Drains with Respect to the Impermeable Layer

For single-interceptor lines, it is possible to calculate the Radius of Influence using Sichardt's formula (published by CIRIA), as follows:

Radius of Influence 
$$R = 2000 M \sqrt{K}$$
 Where: 
$$M = \text{Drawdown (L)}$$
 
$$K = \text{Coefficient of Permeability (L/T)}$$

With reference to Figure 5-4 below, the steady state discharge of single line drains can be computed using the following formulas:



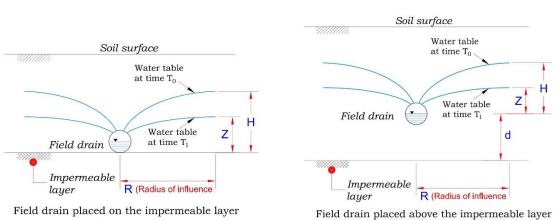


Figure 5-4 - Placement of Single Field Drain with Respect to the Impermeable Layer

To calculate the value of the drawdown (H-Z), the following two methods can be used:

United States Bureau of Reclamation Charts; or