

Culvert Flow

1. Outlet submerged \rightarrow Type I

2. Outlet unsubmerged



1. Head water greater than critical value

(i) Culvert hydraulically long T2

(ii) Culvert hydraulically short T3

3. Headwater $<$ critical value

a) Tailwater $>$ larger than critical depth T4

b) Tailwater $<$ critical depth

(i) Slope subcritical T5

(ii) Slope supercritical T6

T1: pipe flow (~~full~~ full)