

Syphon

- ▶ Syphon is a structure constructed at the intersection of two waterways.
- ▶ Syphon carries the discharge of one waterway under the other.
- ▶ Usually the smaller waterway's discharge passes under the large one.

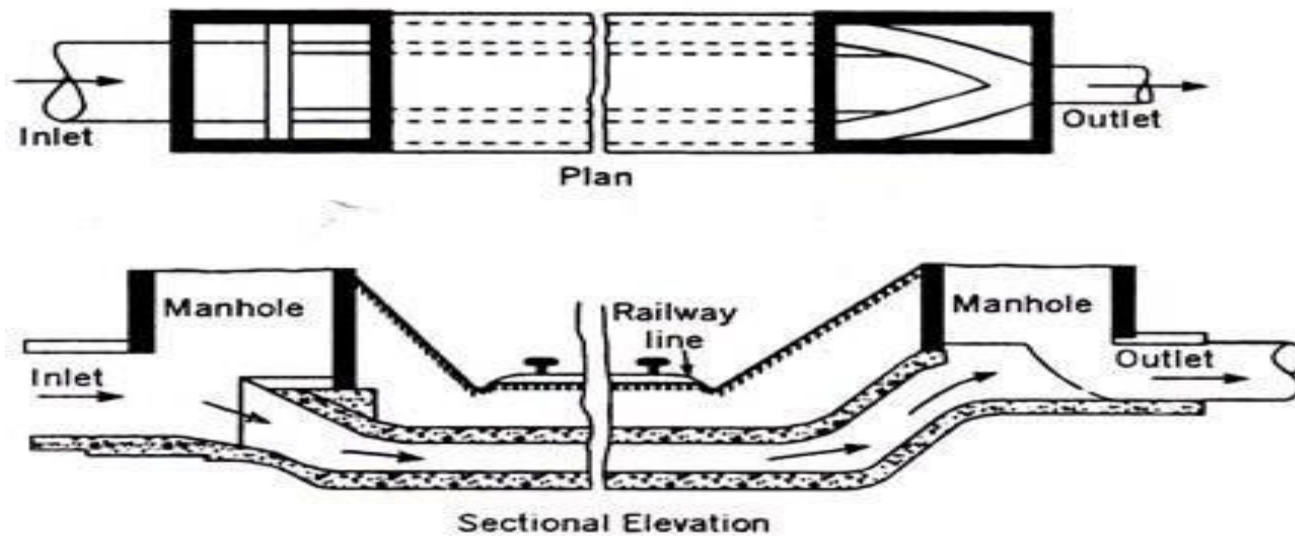


Fig. 7.11. Inverted Siphon.

Hydraulic Design

- ▶ Syphon may be constructed of concrete or steel.
- ▶ The design procedure is similar to the culvert's design procedure.
- ▶ It is recommended to reduce the water velocity to 1.1 m/sec to reduce the friction losses which is usually large due to the length of the syphon.

Aqueduct

- ▶ Aqueduct is a structure constructed at the intersection of two waterways.
- ▶ aqueduct carries the discharge of one waterway above the other.
- ▶ Usually the smaller waterway's discharge passes above the large one.



Hydraulic Design

- ▶ Aqueduct may be constructed of concrete or steel.
- ▶ The design procedure is similar to the culvert's design procedure.
- ▶ It is recommended to reduce the water velocity to 1.1 m/sec to reduce the friction losses which is usually large due to the length of the aqueduct.