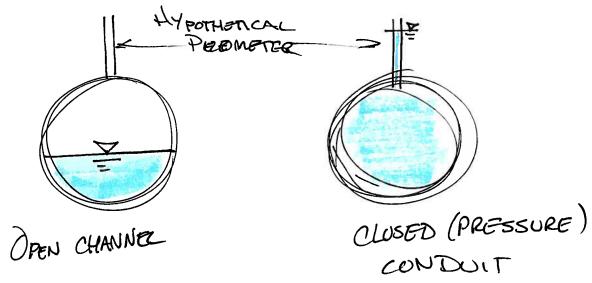
CE 3305 Fluid Mechanics Spring 2014 Quiz 23

1. Define an open channel.

A conduit whose upper flow boundary is a liquid free surface

2. Describe the conditions under which a sewer pipe behaves as an open channel and as a closed conduit. Use sketches to support your answer.



SELOW TOP (CROWN; SOFFIT) OF PIPE.

SEWER IS CLOSED CONDUIT WHEN H.G.L IS ABOVE TOPOF PIPE (CONDITION IS CALLED SURCHARGE)