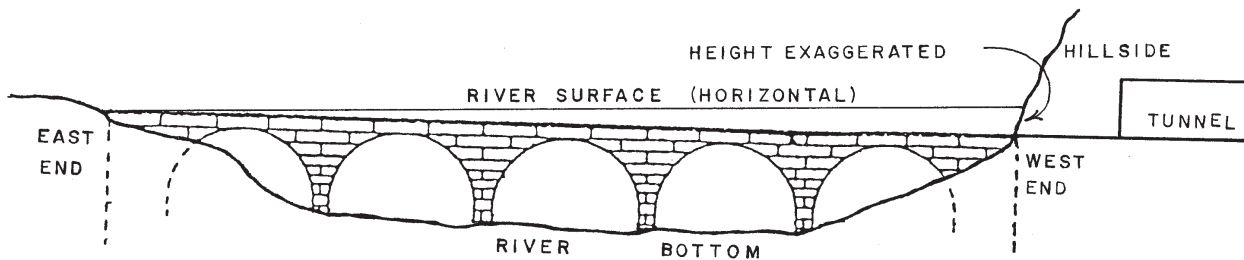
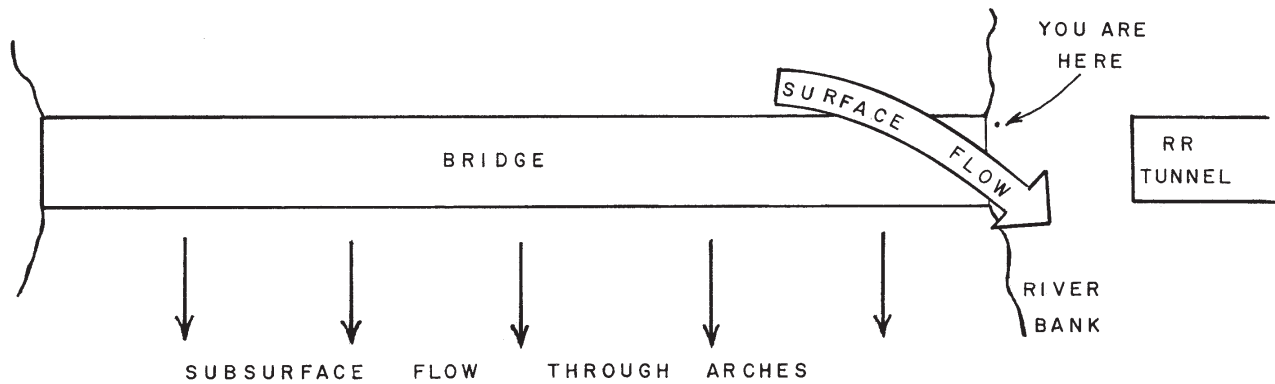


# WEST PENN TRAIL at BRIDGE No. 2



At high lake levels, this bridge acts like a dam that deflects the flow of the river into this "corner" between the end of the bridge and the hillside. This (west) end of the bridge is 18 inches lower than the other end of the bridge. When lake level rises, this end of the bridge goes underwater first. At that time, river flow that does not pass under the bridge "piles up" on the upstream face of the bridge; that water falls along the "wall" in the direction of this low point, which is at elevation 917 feet (above sea level).

At Social Hall, 3.3 miles east of here, the roadbed elevation is 967 feet, so the slope on the railroad grade, and the bridges, is 3.4 inches per 100 feet. Over the length of this bridge (512 ft), the change of elevation is 18 inches.

Notice that the edge of the roadbed at this end of the bridge has been washed away by the river torrents. When lake level rises to 918.5 feet, the river flows over the entire bridge as though it were not there. Until that happens, the river eddies here and drops floating debris in front of the tunnel.