

Inland Fisheries Ireland

Close to Nature
Type's of Fish Passes

Inspector Alan Cullagh





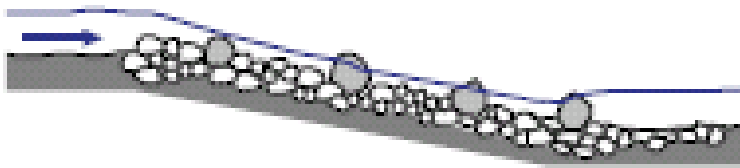






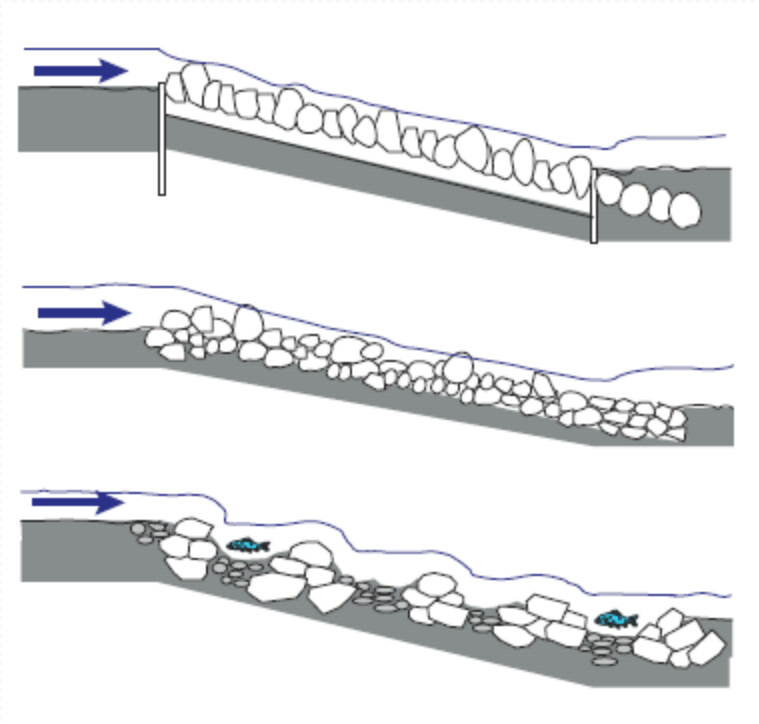


Bottom Ramp and Slope



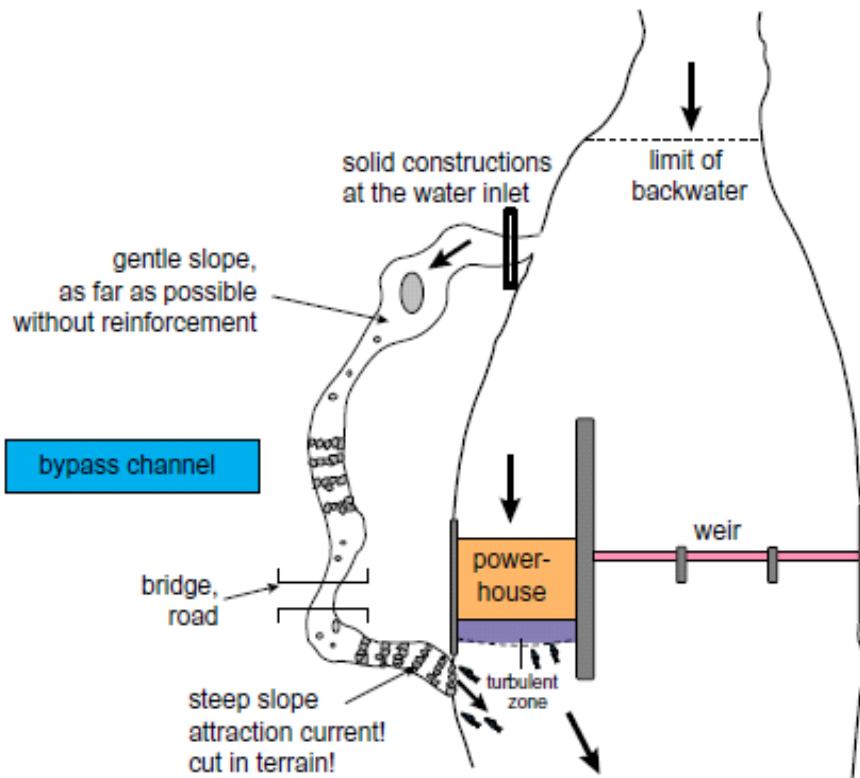
- Extends the entire width of the river
- Originally designed for stabilising river bed
- Slope 1:20 to 1:30

Bottom Ramp and Slope



- Embedded Boulder (Piles or Stakes)
- Rock Fill Construction (Bed must be stabilised)
- Boulder Bar Construction

Bypass Channel

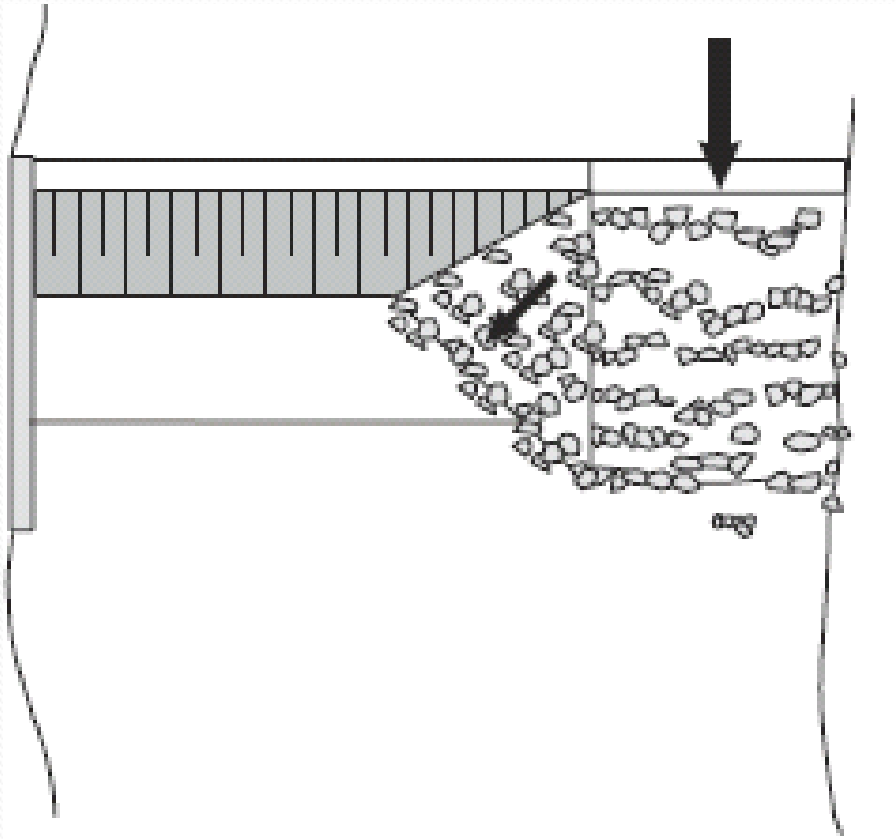


New river around the obstacle

Gentle gradient

May include boulder sills

Fish Ramp



- Slope greater than 1:20
- Partial river width boulder sills
- Perturbation Boulders

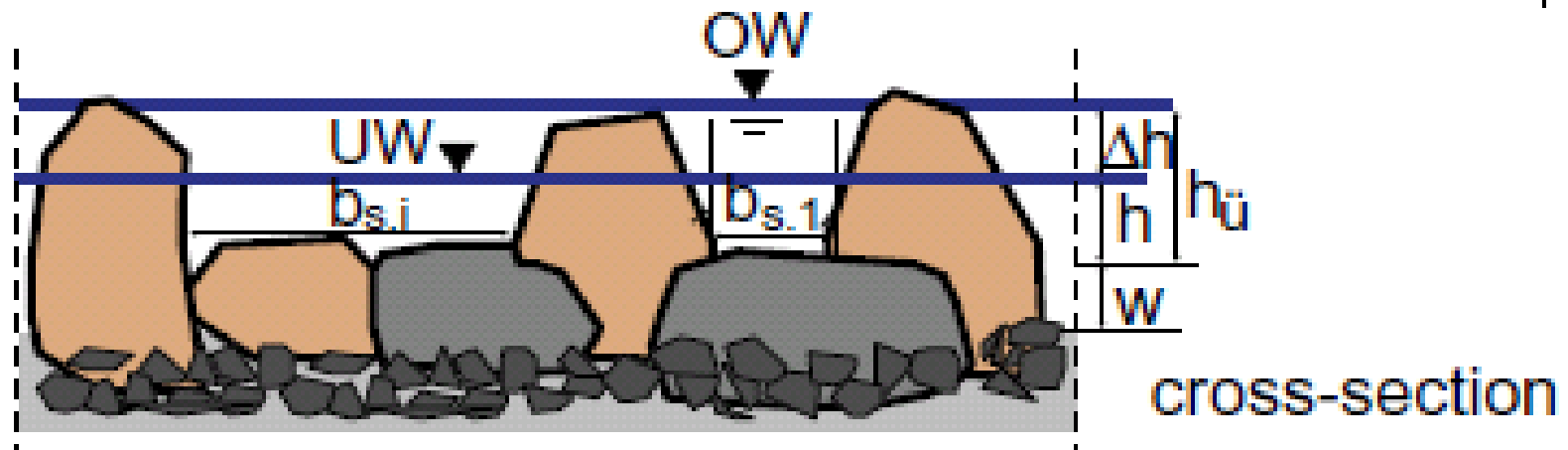
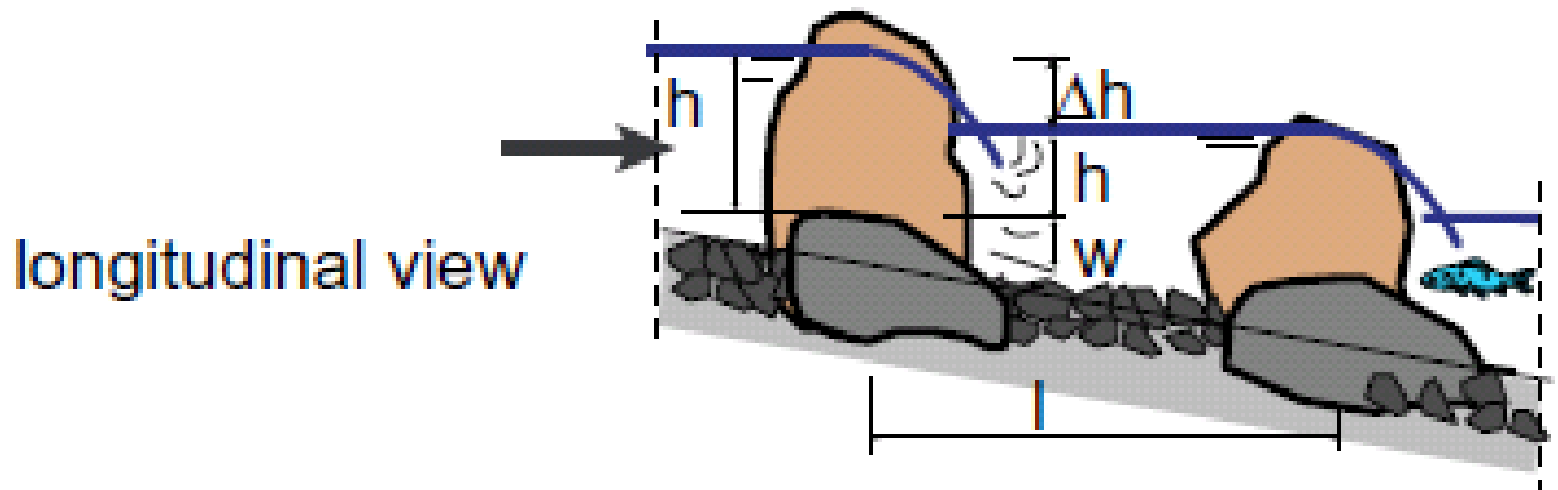








Design Calculations























Thank You

Questions ?