SUB-SURFACE DAM

PROTECTION OF PIPE IN THE RIVER COURSE BY MASONRY OR CONCRETE OR STONE PITCHING

G.I PIPE 75mm IN STRAIGHT ALIGNMENT TO VALVE CHAMBER. IF POSSIBLE GRADIENT TOWARDS VALVE CHAMBER TO BE PREFERABLY MORE THAN 0.05

LENGTH OF PIPE ACCORDING TO WATER DEMAND

DRAW OFF PIPE WITH FILTER

SCALE 1:100

FILTER DETAIL

SCALE 1:20

TYPICAL CROSS SECTION (PHASE 2)

SCALE 1:50

CASE:
HARD ROCK FOUNDATION
BASE GABIONS EMBEDDED 0.30m INTO FOUNDATION
NO DOWNSTREAM PROTECTION NECESSARY
IMPERVIOUS SEAL FIXED IN CLAY TRENCH 0.30 x 0.30m

TYPICAL CROSS SECTION (PHASE 3)

SCALE 1:50

HARD ROCK FOUNDATION AND BANK
0.30m SIDE ANCHOR INTO BANK
NO SHOULDER NECESSARY
BASE GABIONS EMBEDDED 0.30m IN FOUNDATION

PUBLIC WATER POINT

RIVER

VALVE CHAMBER

CATTLE TROUGH

SAND RESERVOIR

DRAW OFF PIPE WITH FILTER