1. PIER WIDTH = "a" (NORMAL TO FLOW).
2. RIPRAPH EXTENT = 2(a) FROM PIER (ALL AROUND).

NOTES:

1. MINIMUM RIPRAPH THICKNESS t=3dₐ, DEPTH OF CONTRACTION SCOUR, OR DEPTH OF BED FORM TROUGH, WHICHEVER IS GREATEST.
2. FILTER EXTENT = 2/3 THAT OF RIPRAPH (ALL AROUND).

SECTION A-A'

RIPRAPH AT PIERS