



PLAN

PIPE OUTLET TO FLAT AREA
NO WELL-DEFINED CHANNEL

NOTES:

1. L_a IS THE LENGTH OF THE RIPRAP APRON.
2. $d_b = 1.5$ TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL - DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

STANDARD DETAIL

PIPE OUTLET
PROTECTION



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SD 2-15

DATE: 2001

DRAWN BY JSR/CMR

CHECKED BY B.P., P.E.

SCALE NOT TO SCALE