ATTACHMENT 6

Page 13 of the Appeal Resolution Document accompanying the September 26, 2000 Preliminary Map

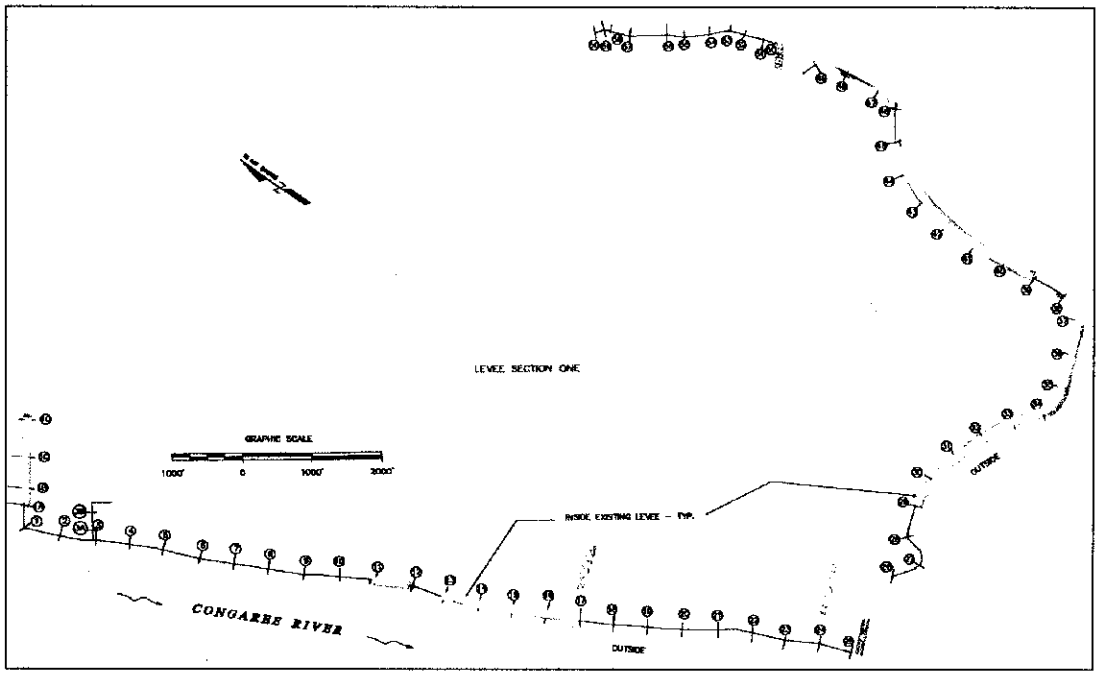

Figure 2. Dike Sections Conducive to Piping Failure

The second question was answered by considering the breaches that occurred in 1976, and considering the ratio of hydraulic head across the levee to the base width of the levee, H/L. In 1976, one breach had a width of 110 feet, while another had a width of 95 feet. The H/L ratios for a 100-year flood would be greater than those experienced in 1976. Based on the relative H/L ratio and extensive engineering experience, it was determined that a breach would likely be about 120 feet wide.

The third question was answered by analogy to the 1976 flood. Based on the experience of the two failures in 1976, it would be reasonable to assume that the levee could fail by piping at two or possibly three weak locations during a single occurrence of the 100-year flood.