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The authors attempt to develop a process-based mathematical model for the prediction gully head cut and associated land loss, and to determine the size of gully control structure for such sites. Theoretical analysis was carried out using continuity and momentum equation for unit width of channel for quas-steady state condition. Culman analysis has been carried out to assess the vertical sluffing of the sides of gully profile developed by earlier analysis. The theoretical profile compared well with the observed ones. An ameliorative means of innovative or profile technology of prefabricated drop spillway has been presented in the paper.