

Initially it was envisaged that the laneway parallel to and North of Wilfred Street, leading to Gerald Street, would form portion of the levee to the West of the Railway. However, inspection of survey levels indicated that this would result in access problems to the rear of the existing development fronting Wilfred Street.

The proposed construction consists of an earthen embankment of the form shown on SK2. This cross-section incorporates the normal construction, maintenance and hydraulic features of such levees. The early over-topping section indicated on SK1 and SK2 is necessary to introduce adequate tail-water into the levee area, prior to general over-topping.

Other works necessitated by the proposed levee construction include:

- i Road raising over the levee of The Pocket Road for a length of approximately 120m to a maximum height of 2m, plus associated drainage.
- ii Drainage structures through the levee, from the depressions to the East and West of the Railway embankment.
- iii Minor levee construction and associated drainage outlet between the Pacific Highway and the portion of current filling to the East of Mogo Place.
- iv Extension of existing culverts and Wilfred Street and carrying levee to highway or local raising of Wilfred Street.

All drainage structures passing through the levee require flood-gating.

## 2.2 LEVEE CREST LEVEL

A crest level of 3.8 metres AHD has been adopted for the levee. This coincides with the finished surface level of fill currently being placed to the East of Mogo Place, rather than the 1% flood level of the Webb, McKeown and Associates Pty Ltd model study.

In the absence of flood gradient data and considering the relatively short length of levee parallel to Marshalls Creek, a horizontal longitudinal crest has been adopted.

An early over-topping section of levee 100 metres long, with a crest level of 3.6m AHD has been incorporated into the design.

## 2.3 DRAINAGE PROVISION

The drainage system on SK1 has been developed to provide for storage and disposal of local catchment water trapped by flood levels of Marshalls Creek, and for adequate post-flood drainage following over-topping of the levee.