Performance Criteria Acceptable Solutions P4 To ensure that the use of OSD is to be sized to match pre-development peak flow rates for the 5, 20 and 100 year ARI rain events onsite stormwater detention (OSD) is appropriate the for that site. needs of the development A4.2 For development other than subdivision, pre and including: post-development peak flow calculations must be based on the impervious percentages (as outlined Post development peak below) or the actual impervious surface area flow should match as (whichever is greater) as detailed on development closely as possibly preplans. development peak flow. A4.3 For subdivisions, pre and post-development peak OSD measures are flow calculations must be based on the impervious made safe. percentages as outlined below. The development does Area impervious: not place an Open Space – 25% unacceptable financial Normal residential – 60% burden on landowners or Half width road reserve - 95% the community. Medium density residential lots – 80% OSD designed in Commercial areas – 90% accordance with industry Industrial areas – 80% standards. OSD design must consider downstream boundary A4.4 conditions for the 100 year ARI level of the receiving water. A4.5 Detention storage must be located at a level above the 5 year ARI flood level. If OSD is provided in landscaped areas, the desirable A4.6 maximum depth of ponding under design conditions is 300mm, this can be increased to 1200mm provided that site slopes of the basin are ≥1:6, or the provided storage is fenced off. A4.7 For subdivisions it is recommended that OSD is at the individual dwelling scale. Where OSD is proposed on public land, the OSD system must be kept to a minimum. A4.8 50% of any retention volume can contribute towards the OSD volume required for the development,

Note: Peak flow is the maximum instantaneous outflow from a catchment during a storm event.

provided the systems are interconnected.