



03 - Design of Pipe Network

03.1 - Location of Drainage Pipes

03.1.1 - The drainage pipes shall be located within the road reserves unless permission has been obtained to locate it in private property.

03.2.1 - When a drainpipe is located within a property not under control of the local government, a drainage easement in favour of the local government will be required along the alignment of the drainpipe.

If a developer seeks to use or encroach an existing easement of the local government stormwater system, the local government's consent will be required. For typical easement dimensions refer *Design & Construction Note 202.10*.

03.2.1 - The proposed alignments of pipe networks shall be checked and confirmed by on-site inspections of the locality. Where possible, the alignment and cover to proposed piped systems shall comply with the requirements of the Public Utilities Information Manual for Western Australia.

03.1.3 - The proposed pipe network must be checked against the presence of all underground and above ground public utilities in the locality.

03.1.4 - Connection to stormwater drainage under building.

A connection to the stormwater drainage under a building is to be carried out in accordance with "*Section 7.2.9, AS/NZS3500.3:2003*"

03.2 Manholes and Access Chambers

03.2.1 - The standard manhole/access chamber should be used and the standard drawings for their installation have been made available (Water Corp Std & COP Std). However for the intersection of multiple pipes, large diameter pipes or to match the configuration of existing pipes, it may be necessary to design a special chamber.

03.2.2 - Manholes and access chambers should be provided on drainage lines to provide access for maintenance at critical points, they should be provided in a drainage system at:

- a) lateral drainage inlets
- b) changes of grade
- c) changes of pipe diameter
- d) changes of direction

Consideration should given to the placement of a manhole/access chamber at an obstruction or penetration by a conduit or service, to facilitate the removal of debris.