Wastewater Corridor Locations

Wherever placement of a wastewater corridor under the Pedestrian Realm or Parking is not feasible, it may be placed under Travel Lanes, as illustrated in Figure 4.9. When placed under Travel Lanes, wastewater chamber access covers shall be placed close to the centre of the Travel Lane for the reasons explained under Section 4.6.2.

A minimum horizontal clearance of 1000 mm shall be maintained between the wastewater service corridor and any potable water service corridor. This clearance can be reduced to 800 mm if a third utility separates the two service corridors.

Similar to stormwater and district cooling networks, the wastewater network shall be installed during the early stages of construction of infrastructure works to avoid disruption to the Travel Lane surface finish.

Wastewater Corridor Widths

The wastewater pipe diameter depends on the wastewater flow, which in turn depends on the Land Use Context as well as the Street Family and proximity to pumping stations. Wastewater service corridor width requirements are generally based on pipe diameters, where larger pipes and their resulting corridors are expected to run within larger streets.

Wastewater chambers shall be located within the chamber corridors and be in accordance with ADSSC requirements.

In some instances where the RoW is limited, and taking into consideration the Land Use Context and expected discharges from the specific building usage along the streets, the service and chamber corridor widths on one side only may suffice (i.e. merging two wastewater pipelines into one single pipeline within one corridor may be considered).

Wastewater corridor requirements and width allocations are presented in Tables 4.6 and 4.7.

Service and chamber corridor offsets (d_{min}) for each of the wastewater corridor combinations are illustrated in Figure 4.10.

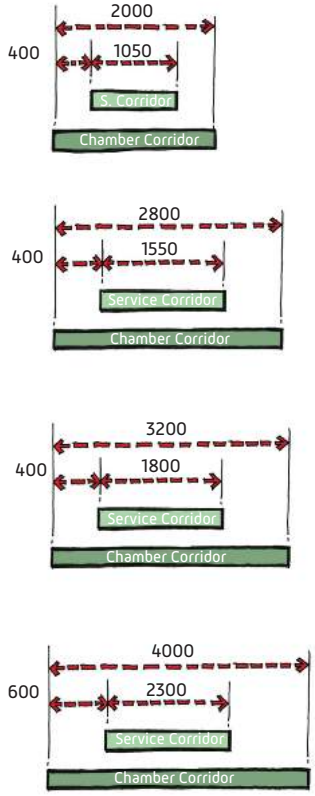

Figure 4.10: Wastewater service and chamber corridor offsets.

Wastewater Special Arrangements

Wastewater corridor allocations presented in this Manual are based on gravity pipelines. Where pressurised pipes are required, they should be located in the larger streets as additional corridors and placed away from the Travel Lanes.

The resultant corridor widths may have an implication on the overall RoW, which may require adjusting, depending on the type of system (e.g.pressure or vacuum system).

In certain cases, the allocated corridor for gravity wastewater pipelines may be used for pressurised pipelines.

For developments where a wastewater vacuum system is adopted, the vacuum pipelines in normal circumstances would take the place of the allocated wastewater corridor.

The associated pumping/vacuum station shall be installed on a dedicated plot away from the RoW and according to ADSSC requirements.