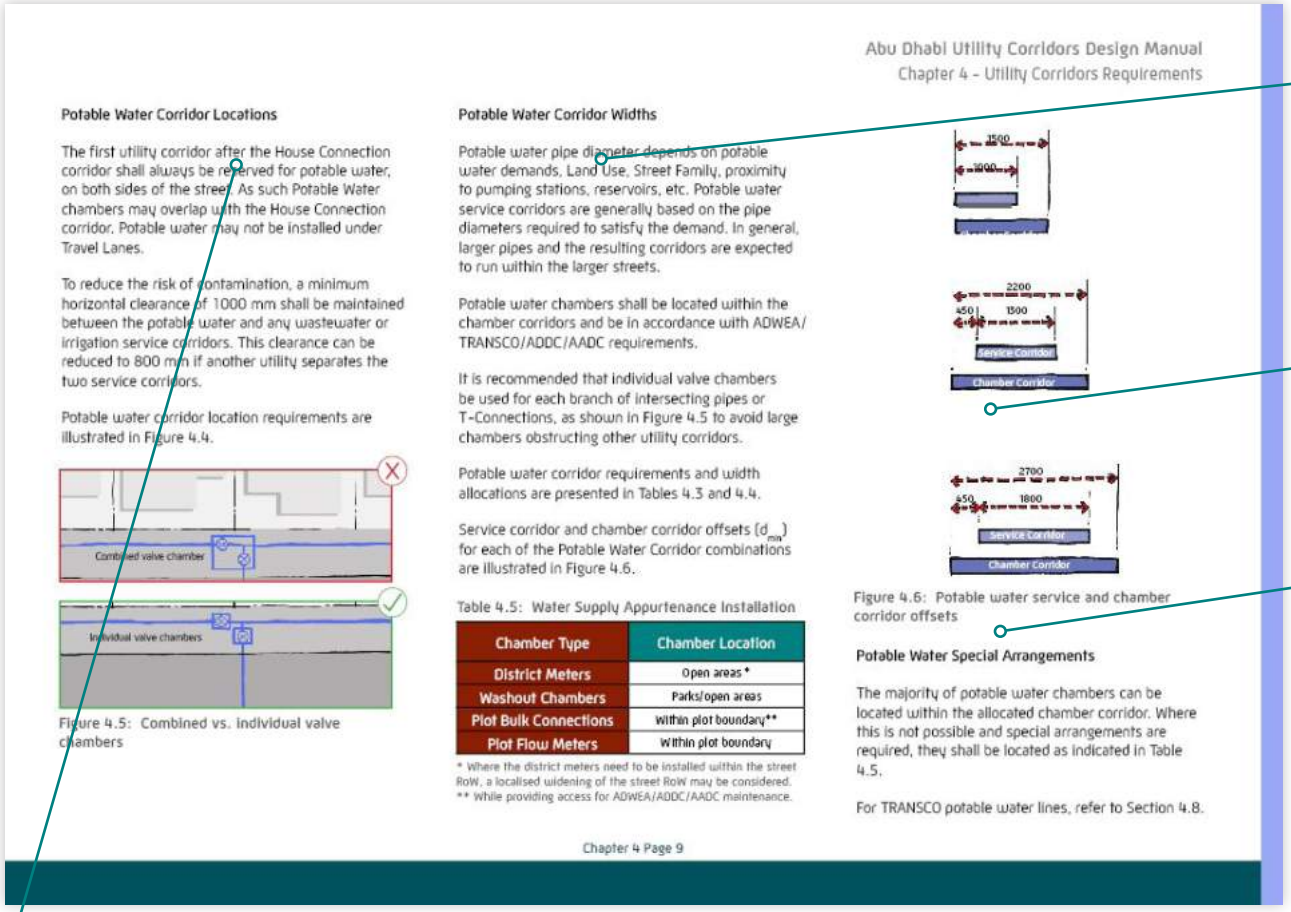

Abu Dhabi Utility Corridors Design Manual
Chapter 4 - Utility Corridors Requirements

Potable Water Corridor Locations

The first utility corridor after the House Connection corridor shall always be reserved for potable water, on both sides of the street. As such Potable Water chambers may overlap with the House Connection corridor. Potable water may not be installed under Travel Lanes.

To reduce the risk of contamination, a minimum horizontal clearance of 1000 mm shall be maintained between the potable water and any wastewater or irrigation service corridors. This clearance can be reduced to 800 mm if another utility separates the two service corridors.

Potable water corridor location requirements are illustrated in Figure 4.4.

Figure 4.5: Combined vs. Individual valve chambers

Potable Water Corridor Widths

Potable water pipe diameter depends on potable water demands, Land Use, Street Family, proximity to pumping stations, reservoirs, etc. Potable water service corridors are generally based on the pipe diameters required to satisfy the demand. In general, larger pipes and the resulting corridors are expected to run within the larger streets.

Potable water chambers shall be located within the chamber corridors and be in accordance with ADWEA/ TRANSCO/ADDC/AADC requirements.

It is recommended that individual valve chambers be used for each branch of intersecting pipes or T-Connections, as shown in Figure 4.5 to avoid large chambers obstructing other utility corridors.

Potable water corridor requirements and width allocations are presented in Tables 4.3 and 4.4.

Service corridor and chamber corridor offsets (d_{min}) for each of the Potable Water Corridor combinations are illustrated in Figure 4.6.

Table 4.5: Water Supply Appurtenance Installation

Chamber Type	Chamber Location
District Meters	Open areas *
Washout Chambers	Parks/open areas
Plot Bulk Connections	Within plot boundary**
Plot Flow Meters	Within plot boundary

* Where the district meters need to be installed within the street RoW, a localised widening of the street RoW may be considered.
** While providing access for ADWEA/ADDC/AADC maintenance.

Figure 4.6: Potable water service and chamber corridor offsets

Potable Water Special Arrangements

The majority of potable water chambers can be located within the allocated chamber corridor. Where this is not possible and special arrangements are required, they shall be located as indicated in Table 4.5.

For TRANSCO potable water lines, refer to Section 4.8.

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Corridor Location
Provides a description of the utility corridor location requirements based on the type of network, street composition, horizontal clearance, etc.

Service Corridor and Chamber Corridor Widths
Provides a description on the required service and chamber corridors widths in relation to each respective utility provider's requirements.

Service Corridor and Chamber Corridor Offsets (d_{min})
Illustrates the minimum offsets between the edges of service and chamber corridors for each corridor combination.

Special Arrangements
Provides a description of any special arrangements, which may be considered during the development of utility corridors cross sections and plans.