In no case shall electrical transmission lines or gas mains come into direct contact with the storm drain pipe or structure. Storm drain lines shall be located to avoid disturbing existing utilities to the extent practical. If a utility conflict occurs, the appropriate utility department or agency shall be contacted to review potential problems and feasible solutions.

Where a utility must pass through a manhole, minimum clearance shall be provided in accordance with the Standards detailed by the SAUP for sleeved or channel type special manholes. The gas pipes and electrical cables shall not pass through inlet and manhole structures.

4.4.2 Irrigation System

The irrigation system is used to collect the excess water used for plantation, green areas, trees and landscaping as part of the ROW elements. Irrigation system appurtenances including all related valve chambers shall be developed in accordance with the general requirements and standard details published by PRFD and ADSSC.

Irrigation pipe corridor width is dependent on the diameter of the pipe that will carry the irrigation water. In case of Main roads the pipe corridor width requirements for different pipe diameters are shown in Table 7.

Table 7: Irrigation Network Pipe Diameters and Pipe Corridor Width Requirements

Pipe Diameter (m)	Pipe Corridor Width (m)
0.5	1.2
0.6	1.3
0.7	1.4
0.8	1.5
0.9	1.6
1.0	1.8
1.5	2.5
2.0	3.3

Note: In case of pipes with large diameter, the corridor width for single pipelines shall be defined as 1.5m times the diameter plus 0.3m. For two or more pipes in the same corridor, the width shall be the sum of internal pipe diameters plus 0.45m between the pipes plus 0.45m.

The irrigation corridor width shall be made as narrow as practicable, but not less than the pipe diameter plus 0.3m, and shall provide sufficient room for laying, jointing and testing. However, the width of the corridor at the crown of the pipe shall not exceed the pipe diameter plus 0.6m.

Furthermore, for the main pipe, the corridor depth shall be 1.0m from crown of the pipe to the finish grade and for the lateral pipe the depth shall be 0.6m. Typical details of irrigation corridor are presented in Figure 12. In this figure, a utility (e.g. potable water) crosses an irrigation drain alignment, the minimum vertical clearance of 1.0m and horizontal clearance of 0.3m is provided from the outside of the pipe and the outside of the conflict point.