

SECTION 1100 ROADSIDE DEVELOPMENT

1101 LANDSCAPING

Landscaping and the associated irrigation system for the roadside areas and medians will be designed by the Agricultural Section of the Abu Dhabi Municipality. The Design Project Manager is responsible for coordinating with the Agricultural Section to ensure that they are aware of the Project and its design schedule.

Special permission from the Municipality is required for the removal of any green (planted) area. Newly created areas suitable for planting along with remaining green areas must be identified and presented on the General Plans. The Design Project Manager must provide these plans to the Agricultural Section so that they can design the new landscaping and irrigation system. Close coordination with the Agricultural Section is essential to ensure that the irrigation design is completed early enough to be incorporated into the Tender Documents of the roadway project.

Agricultural planting areas should be shown on the general plans designated as green areas. Green areas within the residential sectors, (sectors predominantly villas or low rise structures), should be maximized while reducing paved areas. In general the green areas should be limited to the front portion of building plots. The areas between and behind the existing buildings should be paved with pedestrian or vehicular pavers as applicable. However, each sector must be considered individually. Local residents, Mosques, Embassies and/or some other significant feature within the sector, often require special (non-standard) treatment.

1102 IRRIGATION

It may be required to design an irrigation reservoir with electrical and water services. In general, it will include the reservoir, pump-house structure and the incoming services, but will not include the interior piping, wiring or pumping systems.

The Agricultural Section will determine if a reservoir is required on a project. They will, also determine its location and size. However, final approval for including this work in a project must come from the Road Section.

1102.01 IRRIGATION DUCTS

All irrigation facility crossings of all roadways shall be accommodated within a duct. Duct details are included on the Miscellaneous Utility Detail Standard Drawings. Duct crossings should be located within allocated service reservation corridors.

Guidelines for providing the irrigation ducts and appurtenances are:

1. Ducts for irrigation lines may be Glass Reinforced Plastic (GRP) or Polyvinylchloride (PVC) pipe conforming to the Standard Specifications.
2. Generally, ducts will be provided under the roadway at intersection crossings. Additional contingency ducts shall be located at spacing of approximately 250 to 300 meters between interchanges. Specific contingency duct requirements for each project must be coordinated with the Agriculture Department. Ducts under the roadway pavement must be aligned with each other in the median, both horizontally and vertically.
3. Ducts should normally have one meter of cover, however, one-half meter of cover is acceptable where positioning is due to conflicts with existing or proposed utilities. In superelevated sections, the ducts should have approximately the same degree of cross slope as the highway. All ducts should have a nominal (1%±) slope for drainage.
4. The end of ducts must extend 0.5 meters (minimum) past back face of curbs or sidewalks when in curbed situations.
5. The end of the ducts should extend into the verge area in an un-curbed condition. The intent is to maintain the cover from the