

**WATER SUPPLY AND IRRIGATION:
A SYSTEM OF CONSERVATION**

The Golf Trail will require an estimated 200± acre feet of irrigation water per year, ranging from a peak of 28± acre feet in July to as little as 5.5± acre feet in December. Irrigation water for *The Golf Trail* will be provided from three different sources:

- *Recycled Domestic Wastewater.* The Wastewater Treatment Facility on Lot #261 will generate up to a maximum of 70,000± gallons per day of irrigation quality water. This represents 71± acre feet/year or 35% of the estimated irrigation water demand.
- *Recycled Golf Trail Irrigation and Rainfall.* Because of the community's expressed concern about any potential water quality degradation, the drainage system for *The Golf Trail* has been designed to capture all irrigation and stormwater runoff from those turf areas subject to intensive turf management techniques. This water will be recycled and returned to the irrigation supply system. Up to 25% (50± acre feet/year) of the estimated irrigation water demand will be met from this source.
- *Wells.* Additional demand beyond that capable of being supplied by the two sources described above will be met by pumping from wells.

Water from the three sources described above is to be collected, mixed and stored in three new ponds capable of storing 38± ac./ft. adjacent to *The Golf Trail*. The irrigation system will be supplied from these storage ponds.

A computerized irrigation system linked to an on-site weather station will automatically control daily water usage to achieve efficient water replacement within the turf root zone only. Surface runoff of irrigation and percolation to ground water of irrigation water is virtually eliminated using modern irrigation technology.