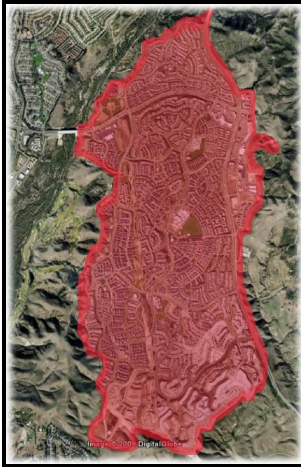


Project Purpose

To design an irrigation system from master planning through construction documents and water management services.

All partners were tasked with creating a community that challenges all aspects of the landscape and irrigation consulting process in order to create an irrigation system that promotes the synergy of efficiency and stewardship of water management for the community.



Special Factors

The landscape irrigation for the entire community was master planned during the project's initial phase. Water demand, hydraulics, communications, and irrigation standards were developed for 741 landscaped acres.

Due to the size of the project, the proper pre-planning of infrastructure, control systems, communication, and demand for water were critical to the long-term success of the irrigation system.

Ninety-six percent of the project's landscape is irrigated with collected and treated recycled water. Domestic water is used only for landscape surrounding pool areas, as required by County Health Code, and an additional small portion of the project.

Role of Irrigation Consultant

The Rancho Mission Viejo Company recognized the role of the Irrigation Consultant through its inherent value to water resources in the community. We were introduced to the team as a valuable asset in the pre-grading, early planning stages.

As a professional member of ASIC, we provided valuable input to many aspects of the design process – beyond irrigation.

Significance

The project captures the residential urban runoff and first flush rainfall flows in a 2.4-mile long centralized wetland stream system, called the Sienna Botanica, where aquatic thriving flora reduce pollutants from the water. It is collected in the south end of the project and enters a series of wetland settling-pond structures. The result is approximately 400,000 gallons per day of water for storage and reuse.

