

Ponderosa Drive Stormwater Improvement Project



Before



After

Purpose:

The purpose was to eliminate flooding from stormwater runoff collecting in residential yards upstream of Ponderosa Drive. The Civitan Club Drive and Ponderosa Drive drainage system (a 24-inch reinforced concrete pipe) had inadequate capacity to collect and convey the runoff from the roadway and upstream areas.

Project Details:

- a. A 124 foot diameter circulatory island, with 1,217 cubic feet of water quality treatment inside the proposed bio-retention areas.
- b. A five- foot wide concrete sidewalk along the perimeter of the intersection.
- c. Painted crosswalks located at each leg of the intersection and concrete sidewalks through the proposed diverter islands.
- d. The replacement of landscape and screening along the proposed drainage easement located between 103 Sunnybrook Drive and 1 90 Ponderosa Drive.
- e. The rain gardens were designed as bio-retention areas with river stone bottoms, planted with low maintenance and hardy dwarf miscanthus (maiden grass) and dwarf loropetalum (Chinese witch hazel). These vegetation species have proven water quality benefits in treating roadway stormwater runoff.

<u>Phase</u>	<u>Agenda Date</u>	<u>Funding Source</u>	<u>Budget</u>	<u>Actual</u>	<u>Begin Date</u>	<u>End Date</u>
Concept*	Dec-10	SPLOST 2005	\$95,131	\$50,001	Dec-10	Jan-11
PE Design*	Dec-10	SPLOST 2005	\$242,341	\$143,770	Feb-11	Apr-12
FE Design						
ROW*	May-12	SPLOST 2005		\$3,704	Oct-12	Nov-12
Construction	Oct-12	SPLOST 2005	\$200,000	\$185,850	Dec-12	May-13

Concept: CHA – Clough, Harbor & Associates David Clark, P.E.
 Design: ACC David Clark, P.E.
 Construction: T&PW Streets & Drainage Department Kevin Gentry

Notes: Stormwater (507) funding was combined with the funds remaining in SPLOST 2005-08, since the SPLOST project funds were near depletion when the project construction was initiated.

Project: CE-37

**This project is a sub-project of the Stormwater Improvement Group 2: System Improvement project. The sub-project is combined with Group 2 projects on early agenda items, and in the budgeting of Concept, Design and Right-of-way phases.*