

Owner/Client:

Williamson County
1900 Georgetown Inner Loop,
Suite B
Georgetown, Texas 78625

Contact:

Joe England, P.E.
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Role:

Prime Consultant

Construction Cost:

N/A

Completion Date:

March 2004

Nature of the Work:

- + Drainage Study
- + Flood Control

Services Provided

Williamson County recognized that the Lake Creek and Rattan Creek watersheds in the southwestern part of the County had undergone several development and improvement projects without their overall effects on drainage conditions evaluated. K Friese & Associates, Inc. was authorized to research and consolidate existing information on each watershed, identify potential jurisdictional constraints on future projects and define additional steps necessary to complete a comprehensive drainage plan.

Six engineering studies within the two watersheds performed between 1998 and 2003 were reviewed and nine earlier studies were identified. A major channel improvement project on Lake Creek and four proposed improvement projects in the watersheds were underway at the time of the study. Investigations revealed that none of the projects considered current watershed conditions nor looked at the ultimate drainage characteristics on a watershed basis. Environmental concerns for future projects would be coordinated through the US Army Corps of Engineers, the Texas Commission on Environmental Quality, the City of Austin and Williamson County.

The control of future flooding in the two watersheds could be administered with the information provided in comprehensive drainage analyses. Recommendations for the future phases of the project include the updating of existing data to include recent improvement projects, new hydrologic and hydraulic modeling to produce updated water surface profiles, mapping of flood prone areas on recent topographic maps, preliminary engineering of improvement projects, evaluation of environmental constraints on projects, prioritization of projects and investigation of funding involvement with other jurisdictional entities.