

CITY OF WEST LAKE HILLS WASTEWATER COLLECTION SYSTEM PHASE 2 AND PHASE 4 SOUTH

Owner/Client:

Lower Colorado River
Authority
3701 Lake Austin Blvd.
Austin, Texas 78703

Contact:

Tony Skeen, P.E.
512.473.3567

Role:

Prime Consultant

Construction Cost:

\$4,250,000 (Estimated)

Completion Date:

In Progress

Nature of the Work:

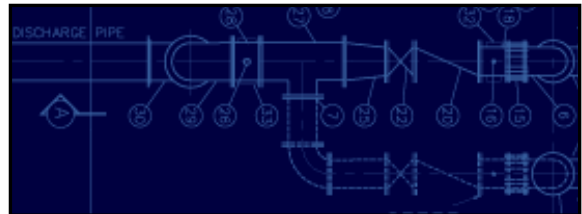
- + Gravity Wastewater Collection
- + Low Pressure Sanitary Sewer Design
- + Lift Station Design
- + Wastewater Modeling
- + Construction Phase Services

Services Provided

The LCRA authorized K Friese & Associates to plan, design and provide construction administration for the Phase 2 and Phase 4 South portions of a new wastewater collection system for the City of West Lake Hills. The projects consist of over 17,000 linear feet of collection mains and will connect over 55 commercial properties along Bee Cave Road and 27 residential properties.

As dictated by the difficult topography of the area and the requirements of a service agreement with the City of Austin, the system design includes both gravity and low-pressure components. Careful modeling of the low-pressure system is required to appropriately size the mains and maintain peak flows within the range defined in the City of Austin service agreement.

The alignment of the system is largely through existing developments in easements on private property. During planning and design



KFA has given special consideration to protection of private property, access to property, and public safety. Extensive use of horizontal directional drilling has been included in the design to address many of these concerns. The projects are within the Edwards Aquifer Recharge Zone, therefore Organized Sewage Collection System Plans will be prepared for submission to the TCEQ. A new wastewater lift station is also being designed as part of the Phase 4 South project.

In addition to the technical design of the project, KFA is heavily involved in coordination with the LCRA, City of West Lake Hills, City of Austin, and the property owners affected by the project

