

#### Project Overview

This study includes only the required analysis necessary to size and locate a Lift Station to service the study area. The basic components of this study were: Analysis of existing conditions (service level, development status and types, etc.), predictions for future growth and types east of I-69 and south of Lower Huntington Road along the Airport Expressway transportation corridor, analysis of sanitary sewer pumping station size required to service future growth at various time lines throughout the proposed development cycle, and development of preliminary plans and cost estimates to complete the skeleton service system for sanitary and water service.

#### Study Area Size and Utility Study Cost

The area studied under this contract includes approximately 1,500 acres. Estimates for Lift Station and Force Main construction cost are approximately \$500,000. The study and documentation engineering cost (portion) was approximately \$5,000.

#### Aerial Photograph of Entire Project Area



#### Survey and Property Research

A complete topographical survey was completed of the Lift Station site and proposed Force Main corridor to support the plan generation and cost analysis. Additionally, property ownership maps and property lines were determined to evaluate the need for easements and additional R/W.

#### Preliminary Routing Plans

Preliminary Routing Plans were completed as part of this project to illustrate appropriate pipe sizes, grades, and inverts to service the area included within the study limits. These plans were used as the basis for the cost estimates to complete the construction.

#### Cost Estimates and Phasing Options

Cost estimates were generated for this project on an "event horizon" basis, which allowed for phasing costs to be evaluated and ultimately for the cost of the system to be divided among the new users in the area. Splitting the project into manageable chunks will also allow the City to build service into this area in an organized fashion.

### Client Reference

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