

A & S Engineers, Inc.

Memo

To: Board of Directors
Harris County Municipal Utility District No. 61

From: Jack Flores, EIT *J.F.*

CC: David Marks – David M. Marks, P.C.
Jim Ainsworth, P.E. – A&S Engineers

Date: February 15, 2011

Re: Sanitary Sewer Rehabilitation
Explanation of Line Selection for Sewer Rehab
A & S Project No.120130

Cleanserve completed a televised cleaning of the District's sanitary sewer system that had not been previously rehabilitated. We tabulated the inspection results and prioritized line segments (manhole to manhole) according to the number of defects per 100 feet of pipe. Priority 1 reflects those sanitary sewer line segments with a frequency of three defects or greater per 100 feet. Priority 2 includes sewer line segments with a frequency of one and a half to three defects per 100 feet. Priority 3 includes line segments with one and half defects or less per 100 feet.

The attached spreadsheets provide preliminary cost projections for each sanitary sewer rehabilitation priority. Total soft costs including construction contract preparation, bidding and construction phase eservices and inspection will add approximately 12 – 15% to the price – depending upon the size (dollar value) of the construction project.

Should you have any questions, I will be pleased to discuss with you.

attach:

