

## Brinks Services Utilizes Two Repair Processes -- MaxLiner and Formadrain -- at Industrial Park

Former tenants of an industrial park in Fountain Valley had put a variety of chemicals and compounds down the drains during the life of the 50-year-old building.

Photo developing fluids, metalworking chemicals, and more.

Management realized the cast iron pipes were beyond their 40-year life expectancy and were failing.

*A 67-foot section of the 4" pipe was discovered to be missing.*

Something had to be done.

But the sewage drain line ran directly beneath the 500-foot-long single story structure, not offset into the adjacent alleyway or parking lot. Digging up and replacing the pipe was not a realistic option.

A tenant of the Mt. Baldy Office Park wanted the floors of their reception areas and restrooms jackhammered, much less the mess and disruption of digging and removing quantities of dirt and corroded sections of pipe.

### The Solution

Mt. Baldy Office Park management reviewed several bids from plumbing companies that employ various methods and "high tech" processes to create and insert "a pipe within a pipe" without digging. Brinks Services Investigation and Restoration of San Diego was chosen not only because of their expertise and knowledge of the various techniques but because of their "can do" attitude.

After examining the condition of the pipes with a sewer camera with a real-time video link, Bill Brink, owner of Brinks Services, chose to attack the problem by utilizing two different products: **MaxLiner** for the heavily corroded, 6" pipe in the lower portion nearer the front of the complex, and **Formadrain** for the longer upper portion where the camera revealed long sections of the original 4" drain pipe had actually deteriorated. Corrosion in the 6" pipe had narrowed the passage to less than 4".

Another factor in the choice of product was that the degree of slope changed at the same junction point. Code called for two degrees of slope, but the lower portion was only one degree. This condition caused greater buildup of corrosive matter in the lower section. With less slope, more solids and chemicals settle and deterioration accelerates.

In preparation, the Brinks crew reamed out the entire sewer line with lengths of plumber's snake followed by a high-pressure water jetter. Opening up the narrowed passage, however, required more: a customized tool was needed.



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