

**Case History Series #001****CIPP, Among Other Trenchless Rehab Methods,  
Solve Multitude of Sewer Repair Problems for City****Situation:**

Many large projects may use several different trenchless methods, and because of the specialized skills and equipment needed for their work, many contractors concentrate on only one discipline, making it necessary to involve several rehabilitation contractors. However, not all utility contractors have the experience and equipment to perform multiple trenchless services. This can force project owners to hire as many as four contractors on a single project... adding to the length of downtime and overall cost of many projects. Companies offering multiple trenchless services simplify the process.

**Problem:**

In Iowa, the city of Winterset's Sanitary Rehabilitation Project required the installation of 59,000 linear feet of CIPP liner, rehabilitation of 220 manholes, and 21 spot repairs. Most of the old pipe consisted of vitrified clay, ranging from 8" - 18" in diameter, and as old as 90 years. Much of it was composed of short, two- and three-foot sections with infiltration and intrusion (I & I) problems. Most of the old sewer lines were in established residential neighborhoods with established lawns and streets, and ran through some downtown commercial districts; all areas where the city wanted to avoid excavation.

**Solution:**

Visu-Sewer Clean & Seal, Inc. was hired by the city of Winterset to first assess, then repair the old pipeline. Visu-Sewer specializes in the application of the most advanced technologies for rehabilitation of aging sewage collection systems and provides professional contract management services for keeping systems operating efficiently. The company recommended the National Liner® C I P P process for relining the old sewer pipe and for spot repairs. Strong Seal® was recommended for manhole rehabilitation. Under close supervision, the project was completed on time and on budget. I & I reduction in the new rehabilitated sewer line has since exceeded the initial goals set forth by the city.

