



### Case Study: Successful Rehabilitation of Interior Sewer Pipes by Mr. Rooter Plumbing of Virginia Beach at Abingdon Regional Jail through CIPP Lining Method

The Abingdon Regional Jail faced significant challenges with its interior sewer pipes, experiencing corrosion and build-up in approximately 411 LF of 4" and 1,079 LF of 6" pipes. This case study highlights the successful rehabilitation project completed using the Cured in Place Pipe (CIPP) lining method.

Abingdon Regional Jail, recognizing the deteriorating condition of its sewer pipes, embarked on a comprehensive rehabilitation project to address corrosion and build-up issues, which posed risks to the facility's functionality and hygiene. The chosen solution was the CIPP lining method due to its proven effectiveness and minimal disruption, and to prevent further deterioration and potential system failure.

The CIPP lining method was selected for its non-intrusive nature, cost-effectiveness, and durability. This method involved rehabilitating the pipes from within, eliminating the need for excavation. The advantages of CIPP, including seamless installation and quick curing, made it an ideal choice for the rehabilitation project.

Mr. Rooter Plumbing of Virginia Beach, huddled over the RFP with their lining division team lead, project manager, and the owners of the company. They reviewed the camera footage of the pipes, and the drawings of the interior plumbing system. After deciding on their approach and methodology they put together a comprehensive response to the RFP. This included a detailed breakdown by area, a timeline for completion, and expected outcomes, safety protocols, and a comprehensive list of the equipment and materials they would be using. Their methodology involved a step-by-step process of CIPP lining application, including preparatory work, installation, and curing procedures. Quality control measures were implemented throughout the project to ensure the longevity of the rehabilitation.

The CIPP lining method successfully restored the integrity of the interior sewer pipes, addressing corrosion and build-up issues. The project was completed within the designated timeline, minimizing disruptions to the jail's operations. The communication between the engineering firm who provided the initial findings, the jail administration, and the team at Mr. Rooter Plumbing of Virginia Beach, played crucial roles in the project. Effective communication and collaboration ensured a smooth execution, and roles and responsibilities were clearly defined.

The successful completion of the sewer pipe rehabilitation project by Mr. Rooter Plumbing of Virginia Beach at Abingdon Regional Jail highlights the effectiveness of the CIPP lining method. The facility now benefits from restored sewer infrastructure, ensuring long-term reliability and minimizing the risk of future issues.