

**SOUTHEAST
PIPE**

WE'RE THE PIPE PEOPLE™

SoutheastPipe.com



COMPLETE UNDERGROUND PIPE INSPECTION • "NO-DIG" TRENCHLESS TECHNOLOGY • PIPE REHABILITATION



We Want You To Be Informed

Deteriorated underground pipe can cause the very ground you walk on to become unstable.

	Type of Pipe	Life Expectancy	Environmental Factors that Decrease Life Expectancy
A	Corrugated Metal	20-30 years	Brackish water, acidic soils or fertilizer; near steep inclines, such as mountains (velocity of water will erode the invert over time); water submerged pipe in coastal areas
B	RCP-Concrete	100 years	Exposure to chemicals or hydrogen sulfide
C	PVC	50 years	Installation of PVC with lower wall thickness than required
D	Vitrified Clay	100 years	Susceptible to fractures particularly during installation



A “cross bore” as shown in this photo is a pipe that’s been inadvertently installed through other pipelines with a drill rig. A drill rig can drill through water pipe, sanitary sewer pipe, stormwater pipe, and even gas pipe (regardless of material type). Stormwater and sewer pipe with cross bores can go undetected for years. This is a major problem. As soil erodes into the pipe through cracks or holes, voids are created in the ground above the pipe. **A sink hole would likely be the first indication that something is wrong.**

“There are between 700,000 to 800,000 miles of public sewer mains in the United States. Many of these pipes were installed after World War II, meaning they are now approaching the end of their useful life.”

ASCE – 2013 Report Card for America’s Infrastructure – Grade D



What’s Underground?

Above ground assets will be impacted if nothing is done with damaged pipe.

In the U.S., Industrial Plants, Resorts, Golf Courses and Homeowners Associations are responsible for thousands of stormwater facilities and millions of acres of land. This is a vast interconnected network of underground pipe with the potential to do great harm to our most valued assets above the ground. Managers simply must be informed ... and they must make the best decisions on behalf of all of their stakeholders.



Our Survey Can Provide The Answers You Need Right Now

Our proven process is quick and easy. Plus, our professionals provide neat and clean survey activities in your neighborhood.

Our Professional Inspection Includes:

- **Vacuum cleaning** of each pipe segment to remove foreign materials (sand, grease, rocks, debris, etc.) from lines and manholes. This helps us to restore the pipe's hydraulic capacity and allows us to obtain a high quality video during CCTV inspections.
 - Solid and/or semi-solid materials resulting from the cleaning operation are removed from the downstream while each manhole section is cleaned. These materials are disposed of properly and in accordance with local rules or ordinances.
- **CCTV video** inspection from manhole to manhole to record existing conditions and to identify any critical defects that could adversely impact the entire system.
- **Quality Control** to make sure each video inspection clearly shows the condition of the pipe and any defect that might be found. Our experts take a second look at your video inspection before finalizing the reports that you'll need to understand the condition of your stormwater system.
- **Pipe Care Package** which contains complete MPEG video of each pipe segment (from manhole to manhole). Your custom package will also include a Defect Ranking Report. Our ranking system uses the industry standard NASSCO PACP rating system for each "defect" and then places them within the context of the entire pipe segment as well as the impact on the entire system...which includes any above-ground variables that need consideration, such as whether the pipe runs underneath a building or other structure.

Ask about our additional services, some of which include:
Flow Monitoring, Smoke Testing, Acoustic Testing & GPS Point Collection



The Pipe Care Package

Our comprehensive report outlines the severity of pipe defects and prioritizes solutions for your consideration. Your package will include MPEG video of each pipe segment, delivered on the medium of your choice, such as a DVD or a USB drive. Reports are available in a variety of formats to suit your specific needs.

Example Defect Ranking Report

Upstream Manhole	Downstream Manhole	Pipe Material	Linear Feet	Priority Ranking
A	B	CMP	150	1
B	C	PVC	300	2
C	D	RCP	220	3

- 1** Requires Immediate Attention!
> Repair right away!
- 2** Minor to Moderate defects will continue to deteriorate
> Re-Inspect: 1-5 years
- 3** No visible Defects
> Re-inspect 5-10 years



COMPLETE NASSCO PACP INSPECTION PACKAGES AVAILABLE

Environmental factors may influence how often we'll recommend inspections be performed. The sample report shown above is a generalized sample. Each report will be unique and specific to the factors affecting each individual segment of pipe.



ATTENTION: PRIVATE STORMWATER SYSTEM OWNERS

Lack of maintenance and care for your stormwater system could potentially result in litigation when homes are flooded or when sink holes develop, causing damage to above-ground assets.

We Can Fix It!

It's Easy To Fix It With "No-Dig" Trenchless Technology

We have a variety of rehabilitation options for consideration.

- **CIPP (Cured-In-Place Pipe Lining)**

This water inversion lining uses existing pipe as a form in order to make a tight-fitting lining. It yields a 50-year life expectancy.

- **CCCP (Centrifugal Cast Concrete Pipe Lining)**

This spin-cast lining system centrifugally casts concrete inside a pipe. It yields a 25-year life expectancy and is less expensive than CIPP.

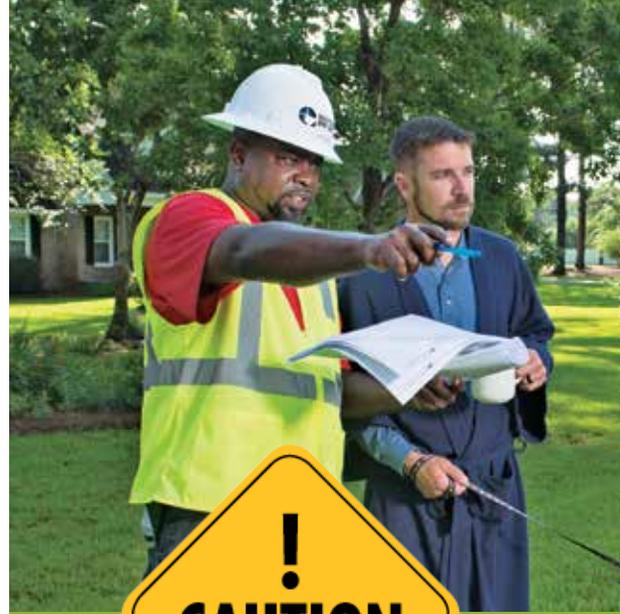
A Word on Quality - You will receive two MPEG videos for each pipe segment, which includes one pre-construction "before" video and one post-construction "after" video. Bottom line... you'll have proof your problem is solved.

Concerned About Funding?

We understand that the cost to maintain a stormwater system might be more than you've budgeted, particularly when it comes to repairs. We recommend you first check with your local municipal stormwater or wastewater utility to see if there are opportunities to partner for grants or loans. Still not sure how to proceed? Give us a call and we'll help guide you in the right direction for your project.

Stay tuned to our news blog on the web for more information regarding funding. And keep in mind...catching problems early on can prevent much more serious and more expensive problems later on.

www.SoutheastPipe.com/news



Minimum Requirements to Consider When Choosing a Contractor

- A valid drug-free workplace certificate
- Adequate bonding
- Certificates of insurance with adequate limits of liability, listing the owner/client as the "additional insured"
- An OSHA 10-hour certified crew
- PACP-certified inspections
- References for similar work performed

Cured-In-Place Pipe Lining (CIPP)

Pipe Diameters:
8" to 12" • 15" to 24" • 28" to 42" • 48" to 72" • >72"

Features:

- Rapid installation
- 50 years documented design life
- Applicable to all shape pipes
- No excavation required
- Minimal disturbance to daily operations

Pipe Bursting

Pipe Diameters:
8" to 12" • 15" to 24" • 28" to 42" • 48" to 72"

Features:

- Can upsize existing pipe diameter
- Minimum 50 years life expectancy of new HDPE or ductile iron pipe
- Can match existing elevation of host pipe
- Reduced above ground disturbance
- Can be completed with many different pipe materials
- Requires minor excavation
- Moderate disturbance to daily operations

Centrifugal Cast Concrete Pipe Lining (CCCP)

Pipe Diameters:
greater than 36"

Features:

- Costs less than CIPP
- 25 years documented design life
- High strength liner, using cementitious material
- Suitable only when pipe is completely dry
- Minimal disturbance to daily operations

Open Cut/Cover Replacement (for comparison purposes only; not part of our menu of services)

Pipe Diameters:
8" to 12" • 15" to 24" • 28" to 42" • 48" to 72" • >72"

Features:

- Most expensive and disruptive option
- Life expectancy determined by pipe material of the new pipe
- Can upsize existing pipe
- Allows for redesign and hydraulic improvements
- Requires excavation
- Potentially severe disturbance to daily operations



We're Here For You

Our staff is ready to help you right now. Schedule an inspection today:

Sales/Survey Division: (912) 647-2847 x 236

Sales/Rehab Division: (912) 647-2847 x 227

*Southeast Pipe - Survey & Rehabilitation
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