

The Underground Utilities Event | July 13-15, 2021 | Music City Center | Nashville, TN

### **Determining Best Repair Methods**

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**Waterline Renewal Technologies** 



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# **Dirty Pipes**









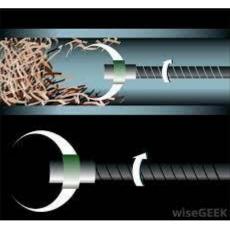
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# Dirty Sewer Pipe - Options

- Water Jetting
- Mechanical Cleaning
- Plugs and Pigs
- Chemicals











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## Damaged Pipes - Examples





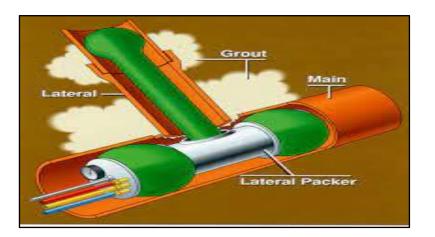


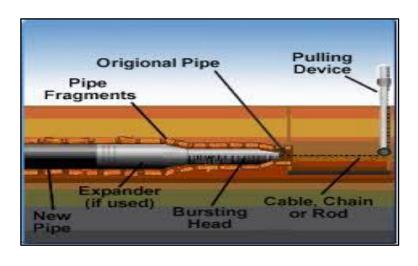


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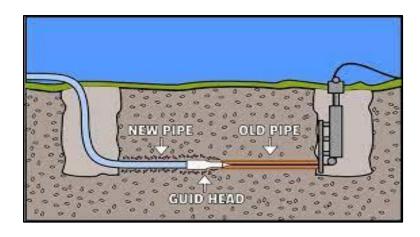
## Damaged Pipe – Solution Options

- CIPP Lining
- Pipe Bursting
- Grout
- Slip Lining





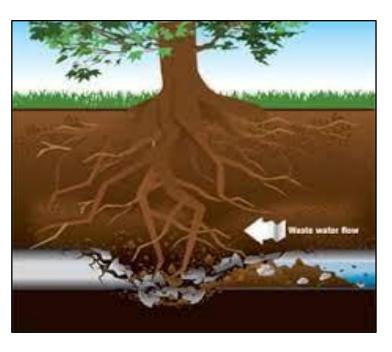






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# Collapsed Pipe





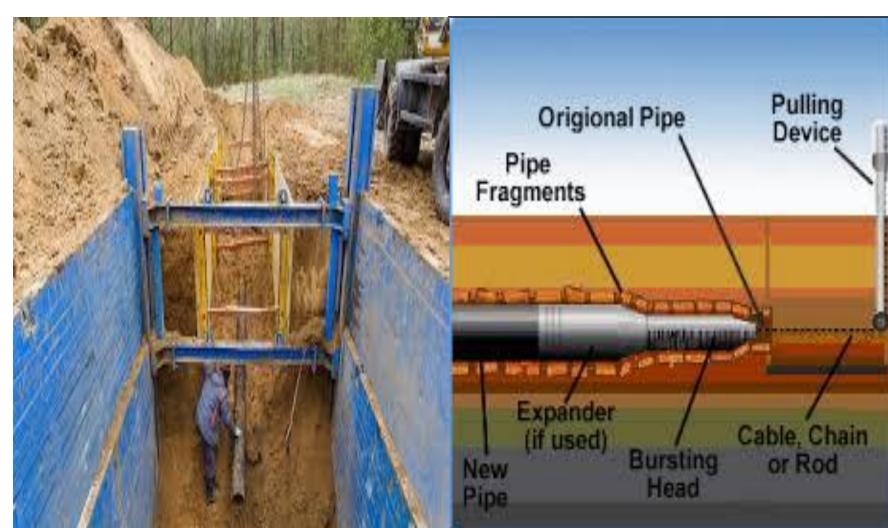




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# Collapsed Pipe – Possible Solutions

- Dig and Replace
- Pipe Bursting





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# Municipal Solutions

- Connections
- Laterals
- Adding Connections to CIPP
- Cleanout installations
- UV Technologies





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### **Private Solutions**



- Coatings
- Laterals
- Cleanout installations
- UV Technologies







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### **Vertical Solutions**

- UV Cure
- Inversion
- Pull in Place
- Coatings









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## Jason Mathey

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