



UNDERGROUND CONSTRUCTION TECHNOLOGY

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



NASSCO

TRACK IV - LATERALS



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Mission: To set standards for the assessment, maintenance and rehabilitation of underground infrastructure and to assure the continued acceptance and growth of trenchless technologies.

Vision: To build awareness of aging underground infrastructure and provide solutions through education, technical resources and advocacy.



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Nomenclature

- Service Laterals
- Building Sewers
- Building Drains

Over 76 million sewer laterals in USA

Laterals typically range 4" to 6" in diameter

~3.8 billion feet of lateral piping

All types of pipe material

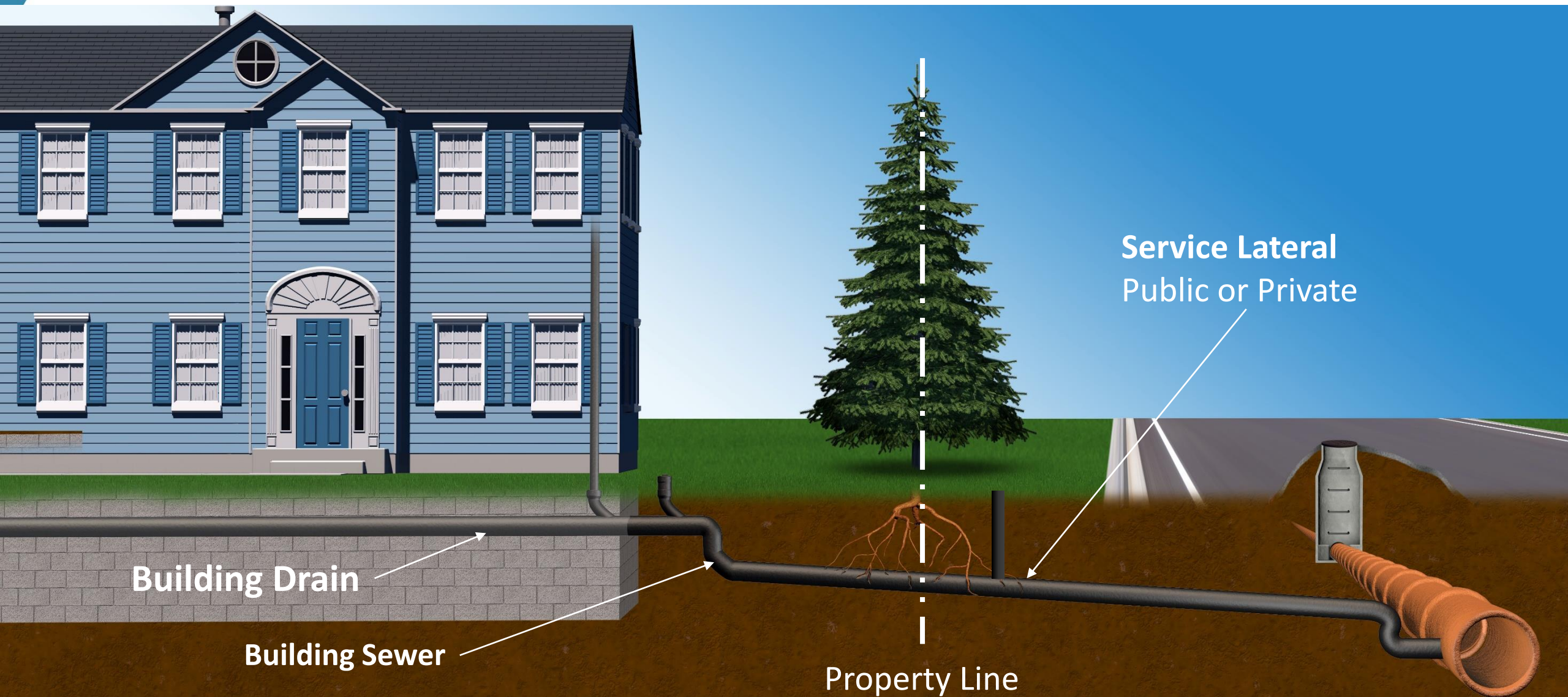
- Cast iron, clay, AC, Orangeburg, PVC





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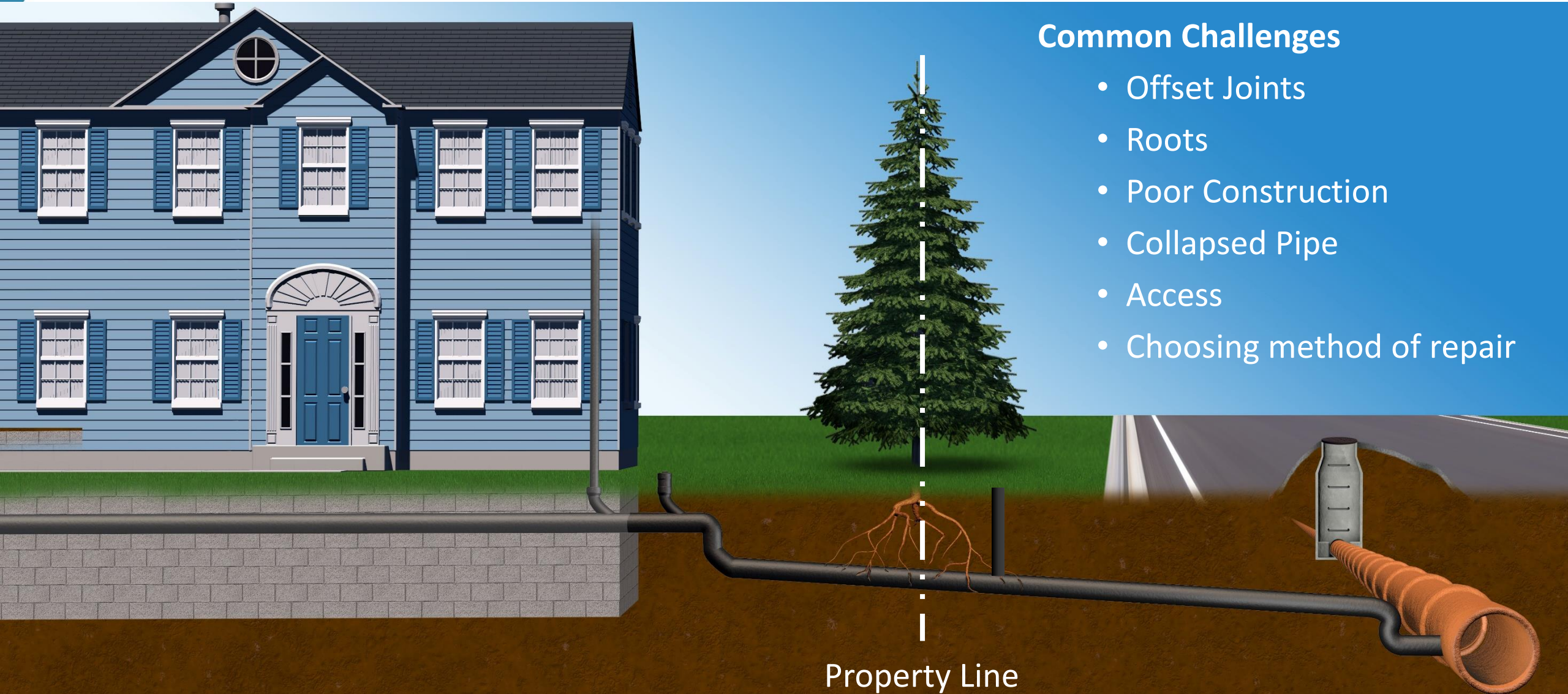


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Common Challenges

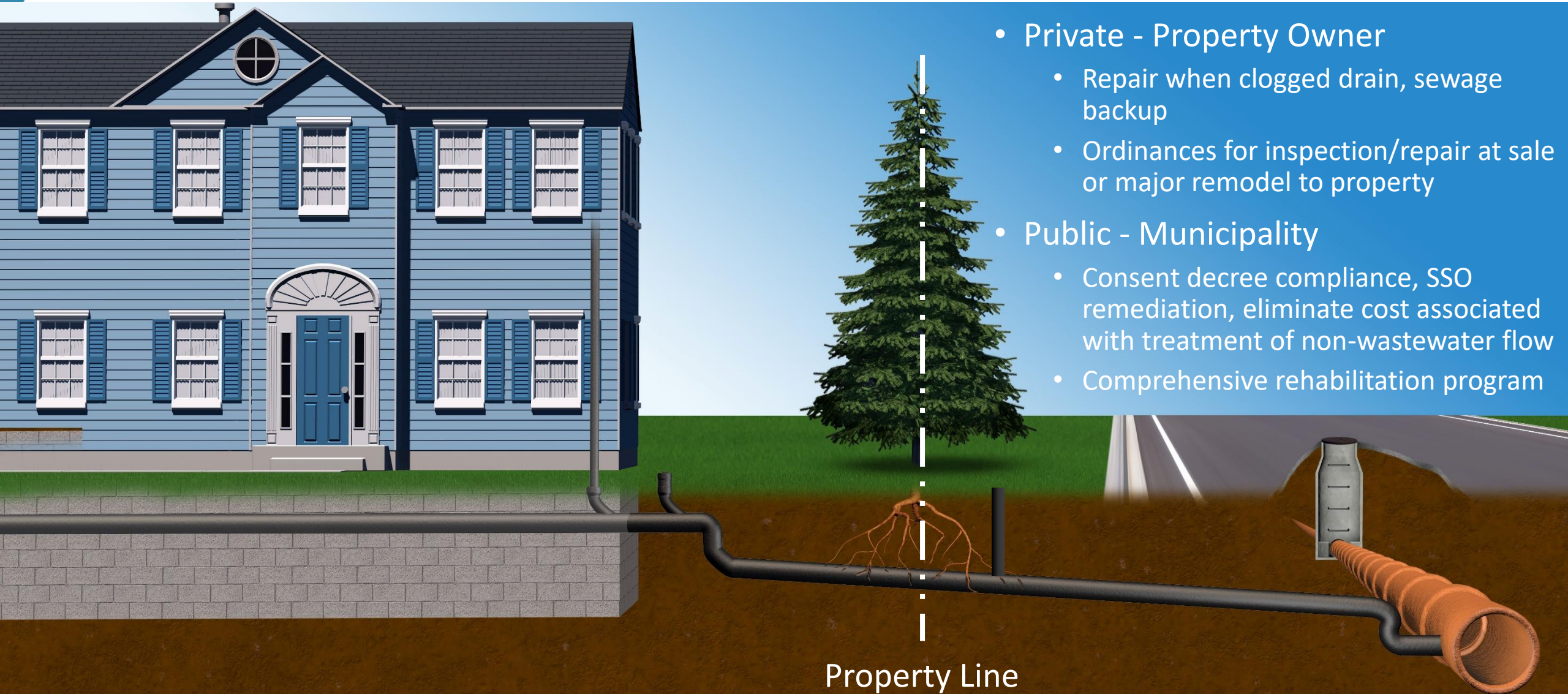
- Offset Joints
- Roots
- Poor Construction
- Collapsed Pipe
- Access
- Choosing method of repair





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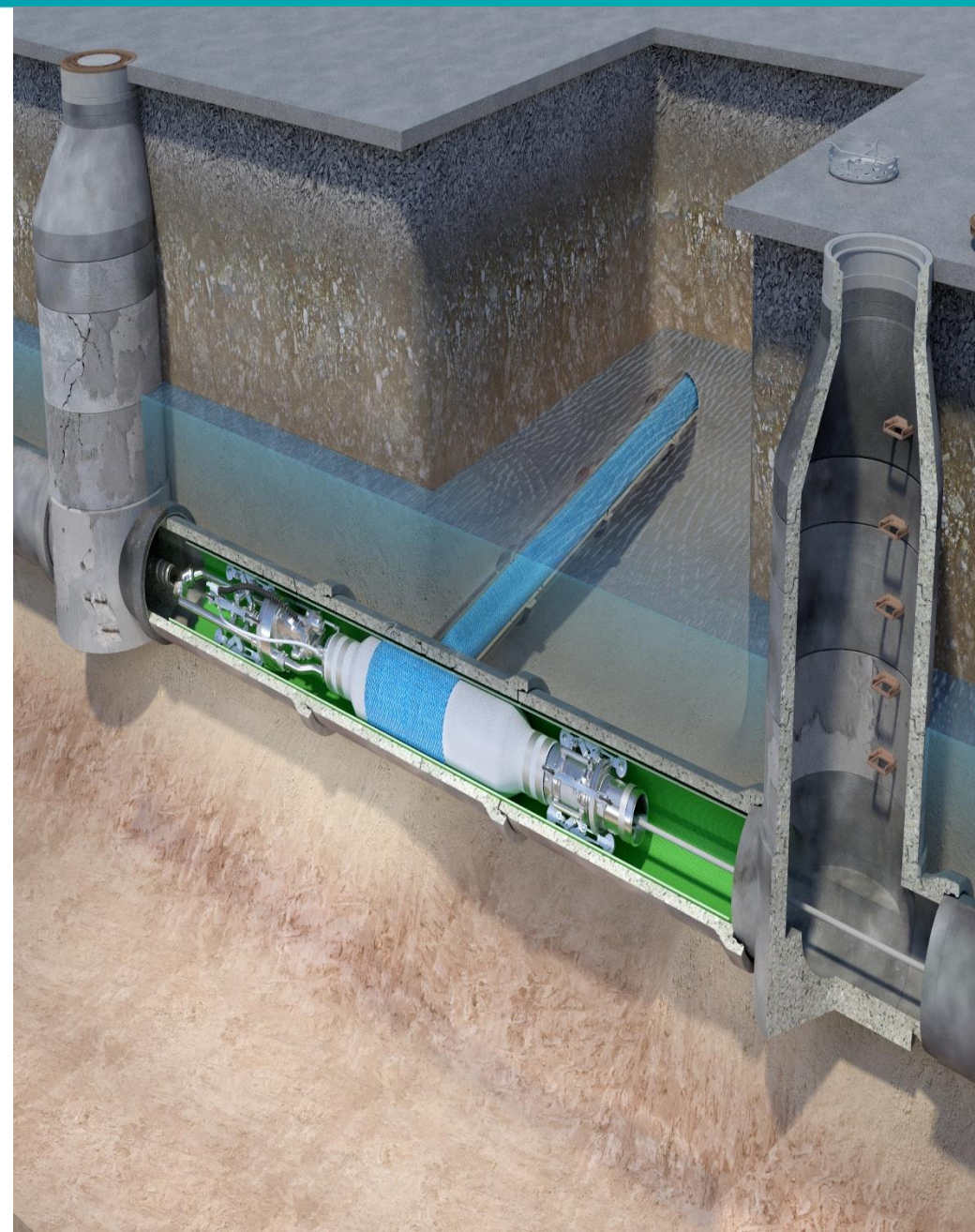
- Private - Property Owner
 - Repair when clogged drain, sewage backup
 - Ordinances for inspection/repair at sale or major remodel to property
- Public - Municipality
 - Consent decree compliance, SSO remediation, eliminate cost associated with treatment of non-wastewater flow
 - Comprehensive rehabilitation program

Property Line



Overview of Trenchless Repair Methods

- Cured in place pipe (CIPP) ... or “lining”
 - Inversion or pull in place
 - Install from public mainline or private property (yard or inside building)
 - Some technologies incorporate a lateral seal when installed from the main
- Sprayed in place pipe (SIPP)
- Pipe Bursting
- Grout





Benefits of Trenchless Technology

- Reduces disruption
- Reduces repair time
- Reduces landscaping and driveway restoration
- Reduces conflict with buried utilities – cable, gas, water, irrigation
- Can be substantially cheaper





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Track Overview

- Condition Assessment (Pipe Inspection)
- Determine Best Repair Method
- Rehabilitation Considerations
- Asset Management

