



## **NASSCO LACP Codes for Condition Assessment**

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## NASSCO

Founded 1976 National Association of Sewer Service Companies

Serves all areas of pipeline assessment, maintenance and rehabilitation industry

PACP was established in 2002 with WRc to provide standardization and consistency to the way we evaluate our underground infrastructure

LACP is based on PACP



# UNDERGROUND CONSTRUCTION TECHNOLOGY

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

## LACP

Lateral Assessment  
Certification Program

Standards for the  
inspection of Laterals

- **Why is Standardization  
Important?**

Codes to identify  
differing Defects and  
Features

Scoring of Lateral  
Defects and  
Segments



## Responsibilities (Ownership)

What is a Lateral or Building Sewer

How far?

- Mainline
- Connection
- Property Line
- House

Benefits of doing more

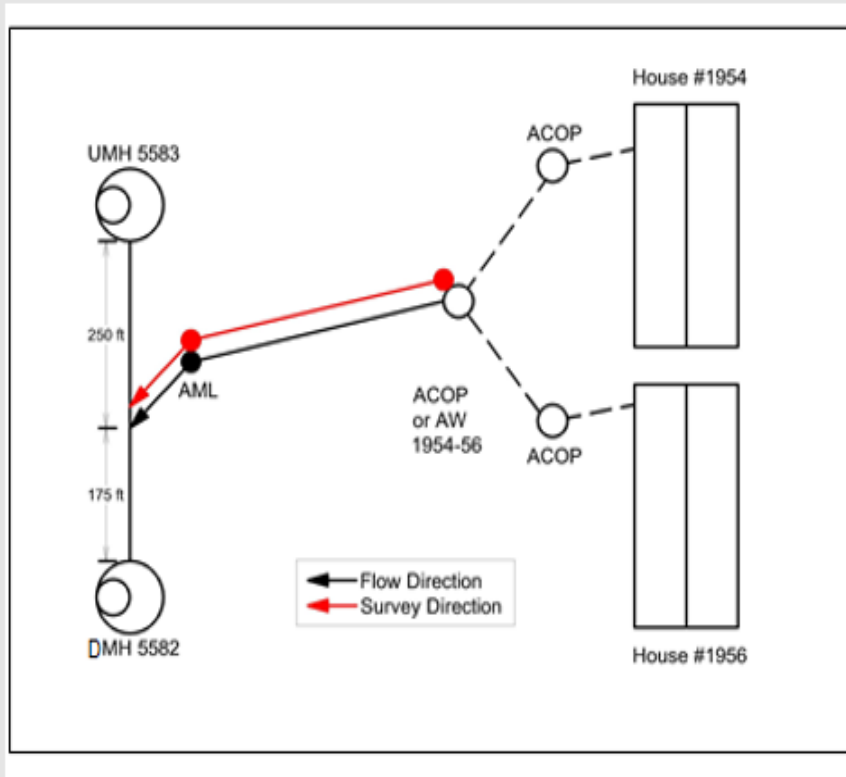
- Economic
- Social
- Administrative



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## Responsibility



- Main Line Only
- Connection
- Right of Way (Property Line)
- House



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## Codes



STRUCTURAL



OPERATIONS AND  
MAINTENANCE



CONSTRUCTION



MISCELLANEOUS



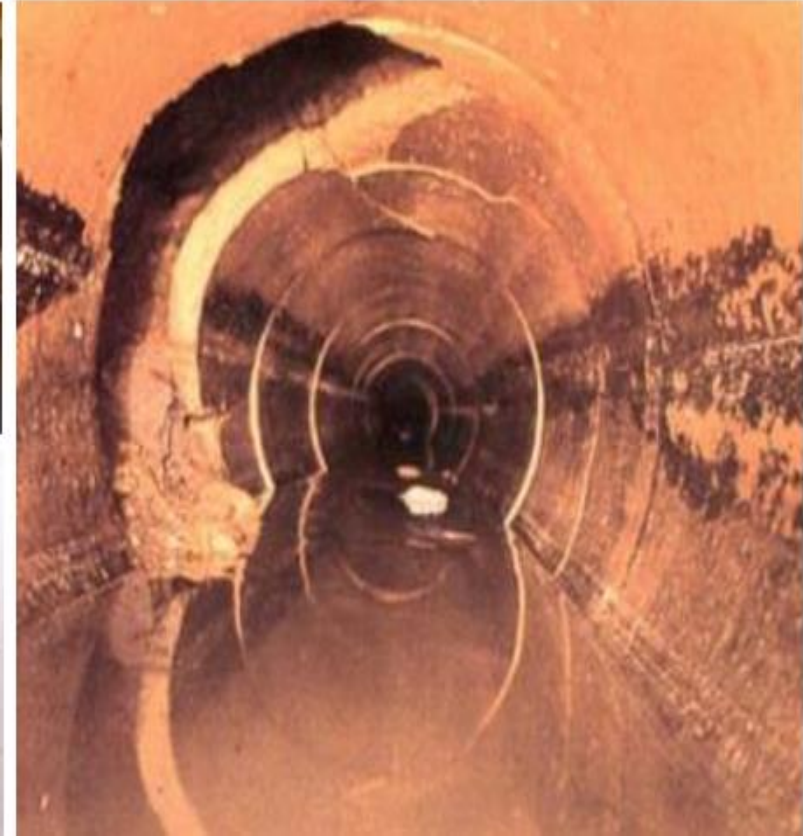
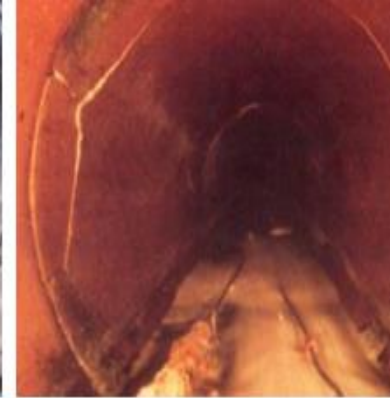
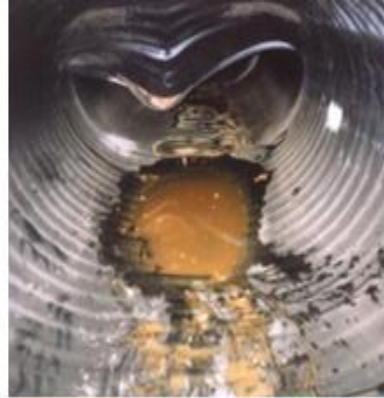


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## STRUCTURAL

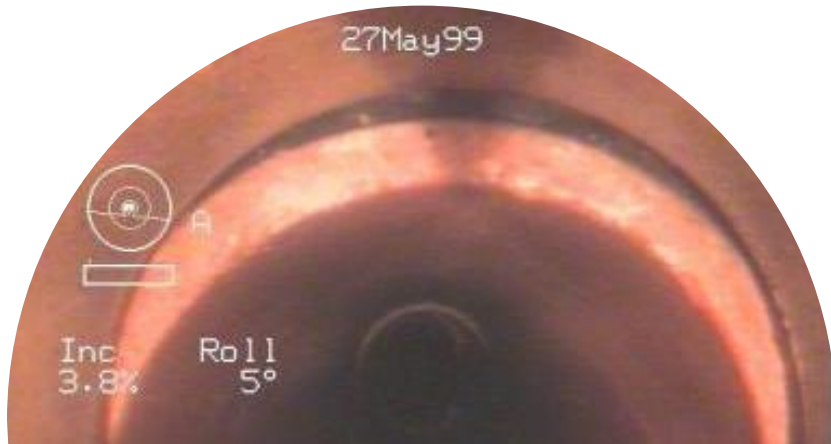
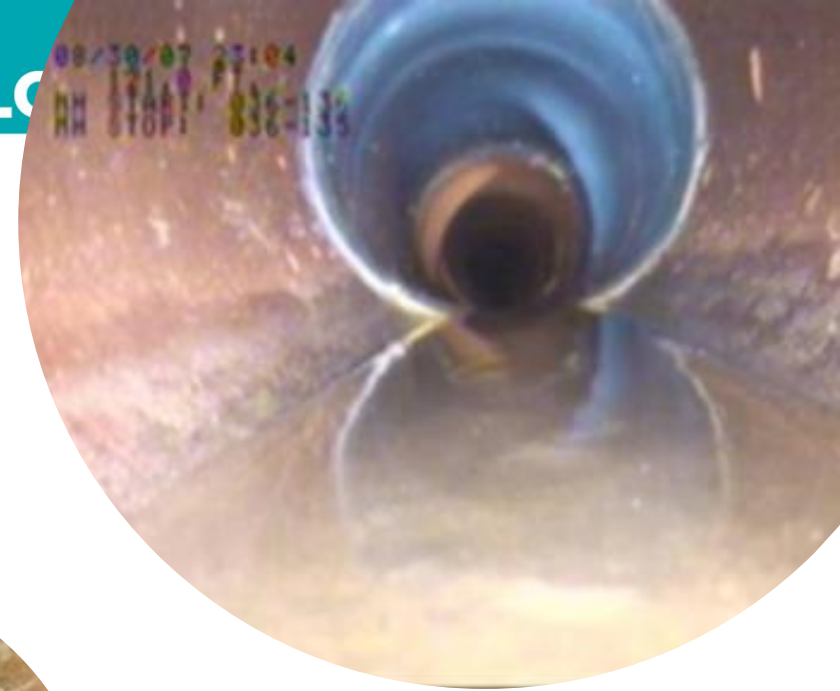
- CRACKS
- FRACTURES
- BROKEN
- HOLE
- DEFORMED
- COLLAPSED





## STRUCTURAL

- JOINT
- SURFACE DAMAGE
- LINING FEATURES
- WELD FAILURE
- POINT REPAIR
- BRICKWORK

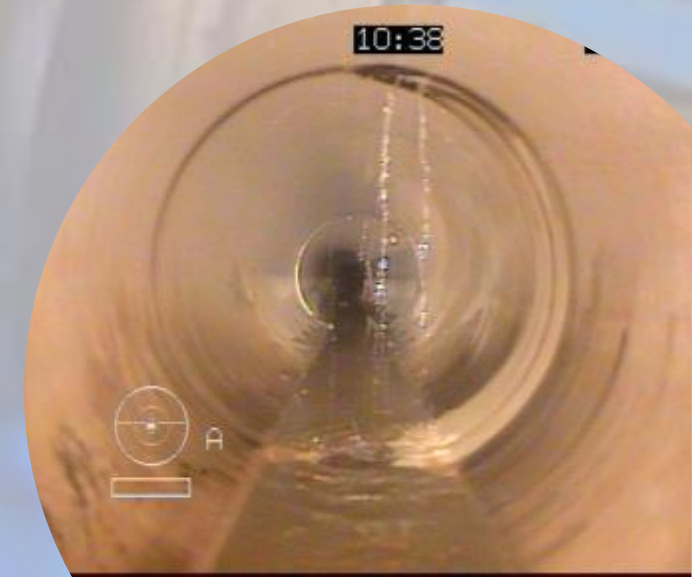
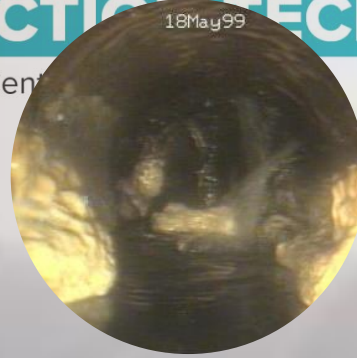






## OPERATIONS AND MAINTENANCE

- Deposits (D)
- Roots (R)
- Infiltration (I)
- Obstacles/Obstructions (OB)
- Vermin (V)
- Testing and Grouting (G)





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Taps



Intruding  
Sealing Material



Line



Access Points

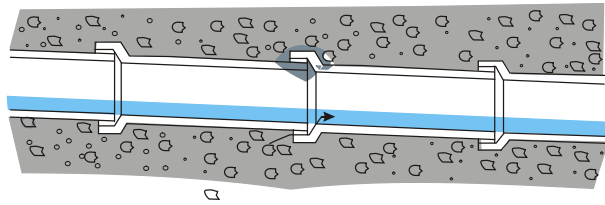




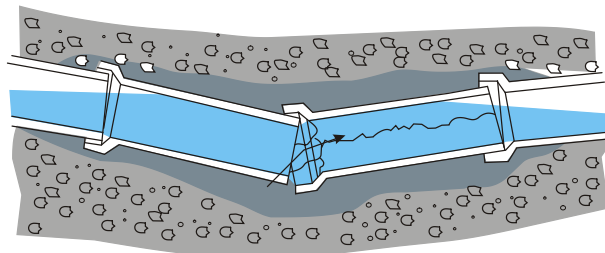
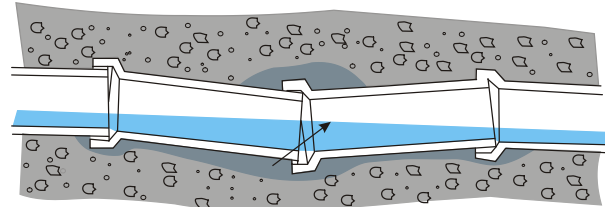
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## Miscellaneous



## SAG



## SIZE CHANGE



## DYE TEST



## SCORING

- 1-5 scale
  - 5 – Most significant defect grade
    - Deformed/Collapsed, Infiltration Gusher, Roots Ball Barrell
  - 4 – Significant defect grade
    - Broken, Infiltration Runner, Roots Ball
  - 3 – Moderate defect grade
    - Crack Multiple, Infiltration Dripper, Roots Medium
  - 2 – Minor to moderate defect grade
    - Crack Longitudinal, Infiltration Weeper, Roots Tap
  - 1 – Minor defect grade
    - Crack Circumferential, Roots Fine



## LACP vs PACP Differences

### Codes

- Fittings
- Access points

### Inspection Methods

- Tractors
- Side Scan
- Zoom Camera
- Push Camera
- Launch Camera





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## Methods of Inspection LACP

- Push Camera
- Launching
- Other





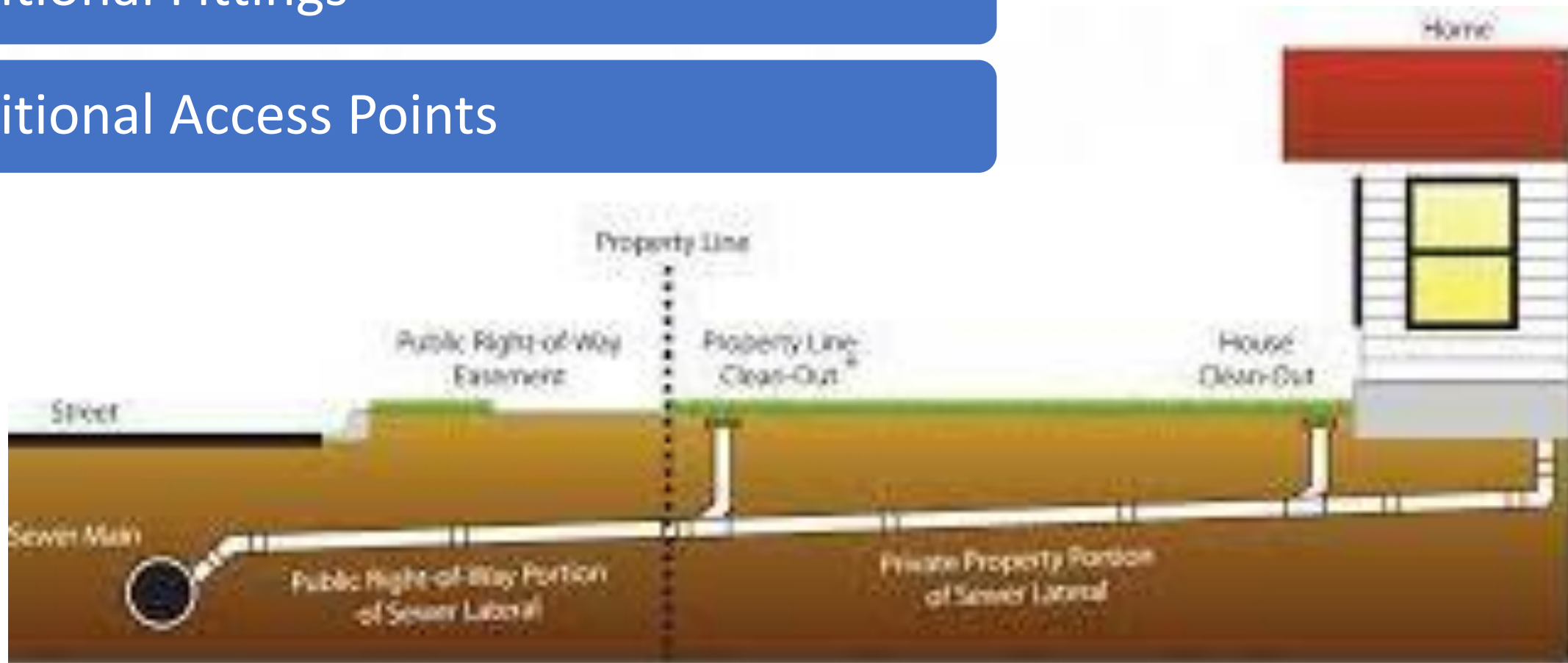
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The same as Main Line Sewers

Additional Fittings

Additional Access Points





## Fittings

- Bends
- Tees
- Risers







## Access Points

- Wyes
- Double Wyes
- Mainline
- Lateral Trap
- Roof Vent
- Backflow Preventer





## Rehabilitation

Replace

Repair

Grout

Line

Pipe Burst

Chemical Root Control





## Questions?

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