UPPER SOUTHAMPTON MUNICIPAL AUTHORITY

SEWER LATERAL GUIDELINES

1. **Camera Specifications:**
   - Camera must be self-leveling and capture footage in color.
   - Time and day stamp must be visible on the video recording.

2. **Rate of Movement:**
   - Camera movement must not exceed 1 foot per second to ensure thorough inspection and accurate assessment of sewer lateral condition.
   - If movement exceeds limit, reinspection will be required.

3. **Pause for Bends or Defects:**
   - A 5-second pause must occur at bends or when defects are detected to allow for careful examination and documentation.

4. **Pass/Fail Criteria:**
   - Cracks are considered a pass.
   - Fractures are considered a fail.
   - Any separation, hole, or potential infiltration point is considered a fail.
   - Camera unable to reach the sewer main is considered a fail.
   - Presence of any roots in building lateral is considered a fail.
   - Any belly where the water level exceeds 20% of the pipe diameter is considered a fail.

5. **Inflow Inspection:**
   - The inspection must also check for inflow sources such as downspouts, sump pumps, condensate lines, French drains, or any other sources of water that do not originate from the water service. Any such inflow should be documented and reported for remediation.

6. **Location Documentation:**
   - The video must show the location before or after the inspection to provide context and ensure accurate mapping of the sewer lateral system.

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7. **Certification Requirement:**
   - Inspections can only be performed by individuals with the NAASCO or PAPHCC (Plumbing, Heating, Cooling Contractors) PSL certification. This certification ensures that inspectors have received proper training and meet the necessary qualifications to conduct thorough and accurate sewer lateral inspections. The final inspection form must be signed by a Sewer Lateral Master Plumber.

8. **Traps Accessibility:**
   - Building, house, or curb traps without a routing wye installed in the line, rendering them inaccessible for a sewer camera, shall be noted. Accessibility of traps is crucial for comprehensive inspection and maintenance, and their absence must be documented accordingly.

9. **Submission Requirements:**
   - A completed sewer lateral form must be submitted along with an electronic copy containing the inspection footage sent to USMA email: info@usauthorities.org.

These comprehensive guidelines ensure a rigorous and standardized approach to the inspection process in the Public Sewer Lateral (PSL) Program, promoting the integrity and reliability of the sewer lateral.

USMA Sewer Lateral Inspection

Building Owner: _____ ☐ Residential - 3 Units or Less

Tax Parcel #: _____

Street Address: _____ ☐ Residential - 4 Units or More, Commercial, Industrial

Town/State/Zip: _____

Sewer Inspector: _____ Date: _____

Company: _____

Inspector Contact #: _____ PSL Inspection Certification #: _____

Sewer Type: ☐ Public Gravity ☐ Public Pressurized

Aerial View of building, PSL, Street, etc. (Not to scale) Note dimensions of PSL to permanent structures such as building, curb, etc.

NOTE: This sewer lateral report has three components: (1) Building Serviceability, (2) Inflow, and (3) Infiltration. The I & I targets are well defined - no I&I observed. Building Serviceability is less defined. When a typical aging defect will create an issue depends on many other aspects of the building's drainage system. Building serviceability only assesses whether the lateral is in at least "fair" condition. The assessment is to verify the pipe is not more than 20% blocked, has no more than 30% encrustation, has no root masses or tap roots in either the building lateral or Authority lateral, and no part retains water across 20% of its diameter during no-flow periods. Outside this report the inspecting plumber is encouraged to still share his experienced opinion on the likelihood of future issues. **CAMERA MUST REACH THE SEWER MAIN TO ENSURE NO ROOTS!**

USMA CCVT Inspection

A CCTV inspection of the sewer lateral will be done and a copy of the video will be submitted with this report. The video must be clear and in color, show a continuous pass from the start of building lateral all the way to the sewer main, and include a scan around the outside area at the beginning or the end in order to prove that the video was taken at the location stated. The video footage counter should be set to read zero at the upstream (building) end and the video should start with a verbal introduction which gives the location, date, direction of travel (upstream/downstream) and the CCTV operator information. Camera should move at a speed slow enough for the piping to be seen clearly and should pause at any issues while operator makes a verbal note. Observations should also be noted on the chart below and can use inspection codes listed to save space.

INSPECTION CODES:

ABS - ABS Plastic Pipe
B - Broken
C - Crack
D - Deformed
E - Encrustation
F - Fracture
H - Hole
I - Infiltration
JD - Joint Displaced
JD-H - Joint Displaced Horizontally
JD-V - Joint Displaced Vertically
LL - Line turns to left
LR - Line turns to right
LV - Sharp vertical change
OB - Obstruction
OJ - Open Joint
OR - Orangeburg Pipe
PVC - PVC Plastic Pipe
R - Root
R-F - Fine Root
R-M - Root Mass
R-T - Tap Root
SDR 35 - Gasketed Plastic Pipe
TS -Transite Pipe
VC - Terra Cotta / Vitrified Clay
WL - Water Level (Belly)
X - Collapse
Y - Wye
1/4 - 90 bend
1/8 - 45 bend

Footage	Code	Notes

continued on back

USMA Inflow Inspection

DOWNSPOUTS/ROOFDRAINS connected to PSL?: ☐ Yes ☐

NoConfirmed by: ☐ Visual ☐ Dye ☐ Video ☐ Smoke

Notes: _____

_____

BASEMENT FLOOR DRAIN(S) connected to PSL?: ☐ Yes ☐ No ☐None

Confirmed by: ☐ Dye ☐ Video ☐ Smoke

Notes: _____

_____

Sump Pump(s) or Condensation enter the PSL?

☐ Yes ☐No ☐ None

Confirmed by: ☐ Visual ☐Dye ☐Video ☐Smoke

Notes:_____.

_____

PERIMETER DRAIN connected to PSL?: ☐ Yes ☐ No ☐None

Confirmed by: ☐ Dye ☐ Video ☐ Smoke

Notes:

_____.

_____.

EXTERIOR DRAIN(S) connected to PSL?: ☐ Yes ☐ No ☐ None

Confirmed by: ☐ Dye ☐Video ☐Smoke

Notes: _____.

_____.

NOTE: Any "YES" above on this page is a FAIL.

TRAP VENT extended high enough above surface level to prevent surface water spilling in during rain?

Yes No None

CLEAN-OUT CAPS are securely sealed to block entrance of surface water? ☐ Yes ☐ No

USMA Inspection Summary Statement

I. **Serviceability-** Does the PSL have any fractures in the line?

☐ Yes ☐ No

II. **Infiltration-** Does the PSL have any separation, hole, or potential infiltration points?

☐ Yes ☐ No

III. **Inflow -** Does the PSL have any sources of inflow detected?

☐ Yes ☐ No

IV. **Roots** - Does the PSL have any presence of root masses or tap roots?

☐ Yes ☐ No

V. **Belly** - Does the PSL have any belly where it exceeds 20% of the pipe?

☐ Yes ☐ No

VI. **Complete Scope** – Were there any restrictions from the camera reaching the sewer main?

☐ Yes ☐ No

NOTE: Any "YES" above on this page is a FAIL.

Additional Explanation:_____.

_____.

_____.

_____.

Master Plumber's Signature:_____

Print Name:_____ Date: _____

Company Name:_____

Contact Phone: _____

Contact Email: _____