

CITY OF MERCER ISLAND

COMMUNITY PLANNING & DEVELOPMENT

9611 SE 36TH STREET | MERCER ISLAND, WA 98040

PHONE: 206.275.7605 | www.mercergov.org

Inspection Requests: Online: www.mybuildingpermit.com VM: 206.275.7730



DRAINAGE SYSTEM VIDEO INSPECTION STANDARDS

Purpose and Scope

Drainage system video inspections help determine the existing condition of pipes. This document provides information and sets standards for video inspections. The intent of these requirements is to ensure the accuracy, quality, and completeness of the video inspection submittal for the use of operators, technicians, property owners, plan reviewers, inspectors, and any others gathering or using the detailed information.

General Requirements

1. The Drainage System Video Inspection Report shall be accurate, fully completed, and then submitted with the Closed Circuit Television (CCTV) video inspection recording.
2. The CCTV video inspection recordings shall be submitted on DVD, web link or via email.
3. The camera, power source, lights, and other components for the video inspection shall be specifically designed and manufactured for the inspection of the pipes.
4. The quality of the camera and lighting shall be suitable to provide a clear, in-focus video of the inside periphery of the pipe extending at least 5 feet in front. Lighting for the camera shall minimize reflective glare.
5. The camera lens must be kept clean and clear. Any fogging due to oil, grease or other debris that obscures the lens, shall be leaned off before proceeding with the recording operation. The camera is to be operative in 100% humidity conditions.
6. The video shall be performed in low flow conditions that do not inhibit the view of the inside periphery of the pipe.
7. The following data shall be displayed on the video recording:
 - a. Location of the pipe or the address of property being served.
 - b. Date and time of inspection.
 - c. On-going footage counter.
 - d. If the CCTV camera system is not capable of showing the above information (a & b) on the video screen, a whiteboard or blackboard showing the information will be permitted as long as the information is shown on the video screen and then the camera shown entering the pipe without a break or delay in the recording.
8. The entire length of the pipe shall be inspected and recorded in one continuous recording. Spliced or multiple segments of video will not be accepted.
9. All DVD's must be labeled. Labels shall be typewritten or legibly hand printed and include:
 - a. Labeled: "Drainage System Inspection".
 - b. Address of property being served or location of system.
 - c. Date of inspection.
 - d. Contractor Name.
10. Provide a map or sketch showing the drainage system with respect to house and street and identify beginning and end point of video inspection.
11. The picture should be of adequate light to clearly view all pipe features and defects, such as additional connections, cracks, offset joints, roots, holes, etc.

12. The camera operation may be cable-pulled or self-propelling, move at a uniform rate, and record moving forward or on a reverse pull depending on the pipeline conditions.
13. The camera shall be stopped for a minimum of 5 seconds at all defects. The camera shall be stopped for a minimum of 30 seconds at pipe connections and if needed, pulled back and re-televised to ensure a clear recording of the connection. Defects and pipe connections shall be noted on the inspection Report Form to the nearest foot based on the continuous footage counter.

REVIEW AND ACCEPTANCE POLICY AND PROCEDURE

1. Video will be submitted to the City of Mercer Island Senior Development Engineer (for inspections *prior to* issuance of a building permit) or the Utilities & Site Improvement Inspector (for inspections performed *following* the issuance of a building permit).
2. All inspection forms and videos will be reviewed for quality, accuracy and completeness based on the minimum standards established and the video recording logs will be checked against the visible features on the recording.
3. If all or a portion of the video or report form is incomplete, inaccurate, non-visible or of a poor quality and does not meet the standards set forth, the contractor will be notified of the deficiencies. A new video and inspection report form must be completed and resubmitted for review.
4. Heavy water flow making the inside condition of the pipe non-visible would be cause for rejection of the video unless it is clearly due to a sag in the pipe.
5. When discrepancies exist between the video footage and continuous footage counter that leave doubt as to the accuracy of the locations of defects or the total footage of pipe, the property owner and contractor will be notified of the deficiencies. A new video and inspection report form must be completed and resubmitted for review. If the operator acknowledges that the forward run is unacceptable and decides to re-televise on the revers pass, the operator shall ensure that the footage markings are correct and stop for defects and other pipe connections per the standards set forth.
6. Video inspection report observations shall be measured from the main or other easily identifiable feature. Please see example below:

EXAMPLE

Condition of Lateral - Observation		
Footage	Observation	Comments
0	-	Connection to main
2	Bend	Bend Prior to main
5	Tee	Tee-Capped
25	R	Root Intrusion @ 6 o'clock
32	OJ	Poor joint connection
41		Start of video inspection

Observation Key: (H=Hole, SV=Soil Visible, EA=Exposed Aggregate, R=Roots, OJ=Offset Joint, C=Cracks, G=Grease/Blockage, S=Sag)

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DRAINAGE SYSTEM VIDEO INSPECTION REPORT

Property Owner Information		PERMIT #	
Applicant/Contact:		Phone:	
Site Address:			
Mailing Address:			
Building Type:	Single Family	Multi Family	Commercial

Contractor Information	
Contractor/Contact:	Phone:
Address:	
Email Address:	
Name of Technician:	
Date of Inspection:	Weather Condition:

Drainage System Inspection Results	
TV Direction:	<input type="checkbox"/> Upstream <input type="checkbox"/> Downstream Total video Footage:
Pipe Material (check all that applies)	
<input type="checkbox"/> A/C <input type="checkbox"/> Concrete <input type="checkbox"/> Cast/Ductile <input type="checkbox"/> PVC/ABS	
Other:	
Pipe Diameter:	<input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> 8" <input type="checkbox"/> 10" <input type="checkbox"/> 12" <input type="checkbox"/> 15" _____"
Cleanouts:	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, location:
Is this side sewer shared with neighboring properties? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If yes, please list addresses:	

Condition of Drainage System - Observations		
Observation Key: (H-Hole, SV-Soil Visible, EA-Exposed Aggregate, R-Roots, OJ-Offset Joint, C-Cracks, G-Grease/Blockage, S-Sag)		
Footage	Observation	Comments

Additional Comments Regarding Condition of Lateral

Signature	Date
Print Name	

Sketch