

STORM DRAIN VIDEO INSPECTION REQUIREMENTS

Public Works
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Video requirements

Before final lift of roadway paving, the storm drain system, including the main line, laterals and interiors of storm structures in all public and private right of way and storm drain easements, shall be flushed and visually inspected by means of closed-circuit television (CCTV).

1. If necessary, clean out the system and any defects should be repaired. The system will need to be televised again to confirm satisfactory repair work.
2. Subdrain lines must be televised to demonstrate it is clear of sediment and debris.
3. Video inspection will be done one section (structure to structure) at a time. The camera will pan the interiors of all structures and when in the pipe, will stop at each joint to rotate 360 degrees to pan the entire joint.
4. Sections of pipe from structure to structure shall be audibly and visually identified in the video using the same nomenclature as on the improvement plans (e.g., "SDMH #2 to SDMH #3" or "STA 10+55"). Each video file must be labeled with the following information: Date, Project #, the Locations and Types of Structures.

Distance measurements:

1. Measurement for location of defects shall be above ground by means of a meter device. Marking on the cable, or the line, which would require interpolation for depth of insertion pit, will not be allowed.
2. Accuracy of the distance meter shall be checked by use of a walking meter, roll-a-tape or other suitable device and the accuracy shall be satisfactory to Public Works.

Camera requirements:

1. The camera shall be specifically designed, constructed for such inspection and capable of producing high quality video to allow a clear color picture of the entire periphery of the pipe.
2. The camera shall be operative in 100% humidity conditions without causing the camera to fog.
3. The camera shall move through the line in a downstream direction at a moderate rate, stopping when necessary to permit proper documentation and cannot be pulled at a speed greater than 30 feet per minute.
4. Manual winches, power winches, TV cable, and powered rewinds or other devices that do not obstruct the camera view or interfere with proper documentation of the storm drain conditions shall be used to move the camera through the line.

Notification

Public Works shall be notified 48 hours before televising and must be on-site to confirm flow rate before televising.

Documentation

Documentation of the television results shall be as follows:

- The purpose is to supply a visual and audio record of problem areas of the lines that may be replayed.
- Recording playback shall be at the same speed that it was recorded. The format shall be in common digital video files (MP4, AVI, WMV, MKV).
- The accompanying audio shall provide a description of what is encountered such as joints, problem areas and broken pipe.
- Each video file shall have displayed the number of feet from the starting structure for each segment.

The contractor shall submit videos for review by Public Works during the project. The contractor shall also provide a written summary of the videos with dimensions and information, specifically identifying problem areas and broken pipe.