COUNTY OF SAN MATEO
COUNTY SANITATION/SEWER MAINTENANCE DISTRICTS

SPECIAL PROVISIONS FOR
CLOSED CIRCUIT TELEVISION INSPECTION OF SANITARY SEWER MAINS

Closed circuit television (CCTV) inspection of the sanitary sewer mains shall be performed by the Applicant/Contractor in conformance with the following provisions and the directions of the District.

1. CCTV inspection shall be from manhole-to-manhole, and sanitary sewer service shall be maintained at all times during cleaning and CCTV inspection of the sewer lines.

2. Prior to CCTV inspection, the Contractor shall remove all debris and foreign objects inside the sanitary sewer lines and manholes where work was performed, and then flush and clean all parts of the system, and remove all accumulated construction debris, gravel, silt and other foreign material from the sanitary sewer system at or near the closest downstream manhole using mechanical rodding, flushing, or bucketing equipment, if necessary.

3. The Contractor shall furnish all materials, tools, equipment and labor required to perform CCTV inspection; and CCTV inspection equipment shall be approved by the District.

4. Video equipment shall include a television camera in color format specifically designed and constructed for operation in connection with sewer inspection and for operation in sewers under 100% humidity conditions. Lighting and camera quality shall produce a clear, in-focus picture of the entire periphery of the pipe for a minimum distance of six feet (6’). The camera shall be moved through the line, preferably in the direction of the sewage flow, at a moderate rate, stopping at joints, lateral connections and when necessary to permit proper documentation of the sewer’s condition. In no case shall the television camera be operated at a speed greater than 30 feet per minute. 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 sewer conditions shall be used to move the camera through the sewer line.

5. The CCTV inspection shall be DVDs or videotapes in VHS format at SP (or equivalent) speed. DVDs or videotapes shall be submitted to the District with a typed log of the inspection for review and acceptance. All DVDs or videotapes shall become the property of the County. If, in the opinion of the District, the submitted DVDs or videotapes are of poor quality such the District is unable to evaluate the condition of the sewer lines, the District may reject the DVDs or videotapes and require the CCTV inspection to be repeated and new DVDs or videotapes submitted to the District for review and acceptance.
6. Submitted DVDs or videotapes, when replayed on a monitor, shall be clear and in-focus, and shall include a continuous on-screen display containing, at a minimum, the date of video inspection and identification of the sanitary sewer line and segment (street location, upstream and downstream manhole numbers) of the line being viewed, and footage. The number designations for existing sanitary sewer manholes shall be as shown on the District maps.

7. If, upon the District’s review of the CCTV inspection, any debris or foreign matter is still present in the sanitary sewer system, the Contractor shall re-flush and clean, and re-CCTV inspect those sections and portions of the sanitary sewer lines and manholes, as required and as directed by the District. This process shall be repeated until CCTV inspection indicates that the sanitary sewer lines have been satisfactorily cleaned.

8. Any damage to the existing sanitary sewer main caused by the Contractor’s operations shall be repaired by the Contractor, to the satisfaction of the District.

9. Any damage to either public or private facilities (due to, for example, a sanitary sewer mainline backup) as a result of the Contractor’s CCTV inspection operations, as described above, shall be repaired or corrected by the Contractor to the satisfaction of the District.