

TELEVISION EQUIPMENT MINIMUM REQUIREMENTS:

1. THE CLOSED CIRCUIT TV CAMERA SHALL PRODUCE A CLEAR COLOR PICTURE ON THE MONITOR AND ON THE VIDEO TAPES. THE CAMERA SHALL BE ABLE TO SHOW DETAIL TO THE POINT THAT ALL JOINTS AND ANY DEFECTS MAY BE READILY SEEN AT THE TIME OF THE INSPECTION. THE CAMERA SHALL HAVE THE ABILITY TO VIEW IN THE 360 DEGREE PATTERN. IF THE CAMERA CANNOT VIEW 360 DEGREES, THE CONTRACTOR MUST HAVE THE ABILITY TO VIEW SERVICE CONNECTIONS SEPARATELY WITH A CAMERA FOR THIS PURPOSE TO INSPECT ANY SERVICE CONNECTION THE CITY REQUESTS.
2. AN ELECTRONIC DATAVIEW SHALL BE USED DURING THE TV INSPECTION WHICH PROJECTS THE FOLLOWING:
 - A. DATE OF INSPECTION.
 - B. MANHOLE NUMBER OF SEWER LINE BEING INSPECTED.
 - C. FOOTAGE OF SEWER LINE DURING INSPECTION.
3. THE VIDEO RECORDER SHALL PRODUCE A NO NOISE STILL PICTURE, AND PROVIDE BOTH AUDIO AND VIDEO DURING THE INSPECTION.
4. A MEASURING DEVICE, APPROVED BY THE CITY TO CHECK THE GRADE OF THE PIPE DURING THE INSPECTION, SHALL BE REQUIRED ON ANY DISPUTED AREAS AND THESE WILL BE RE-TELEVISED.
5. AUDIO OF THE INSPECTION SHALL BE SIMULTANEOUSLY RECORDED ON THE VIDEO TAPE. THE AUDIO SHALL CONSIST OF ORDINARY DESCRIPTION AND COMMENTARY.

TESTING:

1. SANITARY SEWERS SHALL BE TESTED IN SECTIONS. TESTING SHALL NOT PROCEED UNTIL ALL FACILITIES ARE IN PLACE AND ALL ASSOCIATED CONCRETE IS CURED. ALL PIPING SHALL BE THOROUGHLY CLEANED PRIOR TO TESTING TO CLEAR THE LINES OF ALL FOREIGN MATTER.
2. WHERE THE PIPE IS INSTALLED IN CONDITIONS WHERE THE GROUNDWATER LEVEL IS LESS THAN TWO FEET ABOVE THE HIGHEST POINT IN THE LINE, THE CONTRACTOR WILL UTILIZE LOW-PRESSURE AIR TESTING IN ACCORDANCE WITH UNI-BELL PVC PIPE ASSOCIATION, UNI-B6-98, "RECOMMENDED PRACTICE FOR LOW-PRESSURE AIR TESTING OF INSTALLED SEWER PIPE", LATEST REVISIONS.
3. WHERE GROUNDWATER IS AT LEAST TWO FEET ABOVE THE LOWEST POINT IN THE LINE, INFILTRATION TESTING SHALL BE USED. INFILTRATION SHALL NOT EXCEED 300 GALLONS PER DAY PER INCH OF DIAMETER PER MILE AS MEASURED BETWEEN MANHOLES. TESTING SHALL PROCEED FOR A CONTINUOUS PERIOD OF TWO (2) HOURS, WITH INFILTRATION AMOUNTS MEASURED BY METHODS APPROVED BY THE PUBLIC WORKS DEPARTMENTS. PIEZOMETERS OR OTHER CITY-APPROVED METHODS SHALL BE USED TO DETERMINE THE GROUNDWATER LEVEL.
4. SHOULD ANY TEST FAIL, NECESSARY REPAIRS SHALL BE ACCOMPLISHED BY THE CONTRACTOR, AND THE TEST REPEATED UNTIL THE ESTABLISHED LIMITS ARE SATISFIED. ANY REPAIRS SHALL BE PERFORMED UNDER THE SUPERVISION OF THE CITY FORCES AND BY METHODS RECEIVING PRIOR APPROVAL BY THE CITY.

REQUIREMENTS FOR SEWER SYSTEM ACCEPTANCE BY THE CITY:

1. THE CONTRACTOR SHALL REPLACE, RE-TEST AND RE-TELEVISION ALL LINES EXCEEDING THE MAXIMUM ALLOWABLE DEFLECTIONS LISTED ABOVE.
2. ANY SECTIONS REQUIRING REPAIRS DUE TO PIPE FRACTURES OR POOR GRADE SHALL ALSO BE RE-TESTED AND RE-TELEVISION WITHIN THE SAME GUIDELINES AFTER THE REPAIR WORK IS COMPLETED.
3. ANY SECTION OF PVC PIPE WITH MORE THAN 5% DEFLECTION (REDUCTION IN INSIDE DIA.) SHALL NOT BE ACCEPTED.

CITY OF GROVELAND STANDARD DETAILS: SANITARY SEWER



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**GENERAL SANITARY
SEWER NOTES**

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SCALE: N.T.S.

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