

TESTING AND INSPECTION OF GRAVITY SEWERS:

1. ALL NEW SANITARY SEWER LINES IN THE CITY OF GROVELAND SERVICE AREA SHALL BE CLEANED AND LAMPED, INSPECTED BY CLOSED CIRCUIT TV AND TESTED, AT THE EXPENSE OF THE OWNER/CONTRACTOR, PRIOR TO BEING ACCEPTED BY THE CITY.
2. ALL ELEMENTS OF THE SEWER SYSTEM MUST BE INSTALLED AND BE COMPLETELY FINISHED, INCLUDING MAIN SEWER LINES, LATERALS, CLEANOUTS, AND MANHOLES.
3. ALL SEWER LINES SHALL BE CLEANED PRIOR TO THE TV INSPECTION.
4. A HYDRAULIC SEWER CLEANER SHALL NOT BE USED DURING THE TV INSPECTION PROCEDURE.
5. IF LINES ARE FOUND TO BE UNCLEAN DURING THE TV INSPECTION, THE INSPECTION WILL BE TERMINATED UNTIL THE LINES ARE SATISFACTORILY CLEANED.
6. WHERE SEWERS ARE UNDER PAVED AREAS, THE AREA SHALL BE COMPACTED AND PRIMED BEFORE THE SYSTEM SHALL BE RELEASED FOR TV INSPECTION.

CLOSED CIRCUIT TELEVISION INSPECTION OF SEWER LINES
PROCEDURES FOR TELEVISIONING:

1. THE CITY'S PUBLIC WORKS DEPARTMENT AND THE ENGINEER OF RECORD SHALL BE GIVEN AT LEAST FORTY-EIGHT (48) HOURS NOTICE PRIOR TO THE TIME PLANNED FOR THE TV INSPECTION AND FOR CONDUCTING THE TESTING. A SPECIFIC TIME AND DATE WILL BE AGREED UPON BY THE CITY, ENGINEER OF RECORD AND CONTRACTOR.
2. NO INSPECTION SHALL COMMENCE WITHOUT THE PRESENCE OF THE CITY'S INSPECTOR, EXCEPT WHEN PRIOR ARRANGEMENTS HAVE BEEN MADE BETWEEN THE CONTRACTOR, ENGINEER OF RECORD AND THE CITY. IN THE EVENT THE INSPECTION IS PERMITTED TO START WITHOUT THE INSPECTOR'S PRESENCE, THE TELEVISION MUST MEET ALL REQUIREMENTS HEREIN.
3. ALL TV INSPECTIONS SHALL BE COMMENCED UP STREAM OF THE SYSTEM TO PREVENT FOREIGN SUBSTANCES FROM ENTERING A SECTION PREVIOUSLY TELEVIEWED. THE CAMERA SHALL BE STARTED FROM THE DOWN STREAM MANHOLE AND TELEVISION WILL BE DONE AGAINST THE NORMAL FLOW OF THE LINE. THIS PROCEDURE WILL ALLOW FOR THE VIEWING OF THE SERVICE LATERALS.
4. BEFORE THE CAMERA IS PLACED IN THE SEWER LINE, WATER WITH YELLOW OR ORANGE DYE SHALL BE PUT INTO THE UPSTREAM MANHOLE OF THE SECTION BEING TELEVIEWED. THIS WILL ENABLE THE CAMERA TO DETECT ANY CHANGES IN GRADE THAT MAY BE PRESENT IN THE SYSTEM.
5. THE TV AND VIDEO TAPE SHALL BE TURNED ON BEFORE THE CAMERA IS PLACED IN THE MANHOLE FOR INSPECTION AND SHALL NOT BE TURNED OFF UNTIL THE CAMERA IS REMOVED FROM THE MANHOLE. THE CAMERA SHALL BE MOVED THROUGH THE LINE UNDER THE CONTROL OF THE TV CAMERA OPERATOR. THE CAMERA SHALL BE DRAWN THROUGH THE LINE AT A RATE NOT TO EXCEED THIRTY (30) FEET PER MINUTE AND SHALL STOP AT ALL SERVICE CONNECTIONS IN THE LINE.
6. A VIDEO TAPE SHALL BE MADE OF THE ENTIRE SYSTEM BEING TELEVIEWED. THIS SHALL BECOME THE PROPERTY OF THE CITY UPON COMPLETION OF THE TV INSPECTION (NOT A COPY). THE TAPE (S) SHALL BE LABELED TO INCLUDE THE PROJECT NAME, DATE OF INSPECTION AND LINE SECTIONS ACCORDING TO CONSTRUCTION PLANS CONTAINED ON EACH TAPE. A WRITTEN REPORT SHALL ACCOMPANY THE TAPE (S).
7. IN THE EVENT THAT THE TELEVISIONING OF THE LINES REVEALS PROBLEMS (I.E. BELLIES, LATERAL DEFLECTION, ETC), IT MAY ALSO BE NECESSARY, AT THE DISCRETION OF THE CITY, TO REQUIRE AN APPROVED 9-ARM DEFLECTION MANDREL TO BE PULLED THROUGH THE SEWER TO ENSURE THAT THE LINE IS WITHIN ACCEPTABLE SLOPES AND THAT DEFLECTION DOES NOT EXCEED 5% OF THE AVERAGE INSIDE DIAMETER, AS ESTABLISHED BY ASTM STANDARDS. ANY PIPE FOUND TO BE OUT OF COMPLIANCE WITH THESE SPECIFICATIONS, OR NOT MEETING THE REQUIREMENTS OF THE CITY IS TO BE REMOVED AND REPLACED AT THE EXPENSE OF THE OWNER/CONTRACTOR.

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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