

## SEWER TELEVISING STANDARDS

- A. ALL SEWER TELEVISING CONTRACTORS SHALL BE CERTIFIED BY NASSCO FOR PIPELINE ASSESSMENT AND CERTIFICATION.
- B. SANITARY TELEVISING WORK SHALL COMPLY WITH NASSCO STANDARDS.
- C. ALL TELEVISING WORK SHALL BE DONE IN COLOR WITH THE PROPER AMOUNT OF ILLUMINATION TO CLEARLY SHOW THE ENTIRE PIPE DIAMETER.
- D. THE CAMERA SHALL BE OF THE PAN AND TILT TYPE.
- E. THE TELEVISING CONTRACTOR SHALL USE A CD-ROM OR DATA DVD TO PROVIDE THE ENTIRE RECORDING PROCESS IN EITHER MPEG II OR MPEG IV FORMAT.
- F. AT THE START OF THE RECORDING PROCESS, THE VIDEO SHALL RECORD THE FOLLOWING:
  - a. DATE/TIME
  - b. OPERATOR AND COMPANY NAME
  - c. SEWER PROJECT NAME
  - d. ADDRESS OR INTERSECTION OF MANHOLE WORKING ON
  - e. DIRECTION ON TELEVISING
  - f. FOOTAGE COUNTER
- G. THE VIDEO MUST SHOW THE COUNTER RECORDING THROUGHOUT THE RECORDING PROCESS.
- H. THE VIDEO SHALL SHOW THE CLOCK POSITION AND DISTANCE FROM THE MANHOLE FOR EACH LATERAL.
- I. THE OPERATOR SHALL PAN EACH SEWER JOINT AND NOTE ANY DEFICIENCIES ON THE VIDEO.
- J. THE OPERATOR SHALL PAN AND TILT EACH LATERAL AND SHALL POSITION THE CAMERA TO LOOK UP EACH LATERAL CONNECTION.
- K. AT NO TIME SHALL THE OPERATOR ALLOW THE CAMERA HEAD TO BE SUBMERGED.
- L. THE OPERATOR SHALL NOTE ANY DEFICIENCIES ON THE MAIN SCREEN.
- M. THE OPERATOR SHALL KEEP AN ACCURATE LOG CONSISTING OF THE FOLLOWING:
  - a. DIAGRAM OF SEWER FROM MANHOLE TO MANHOLE SHOWING DIRECTION OF FLOW.
  - b. SHALL NOTE ALL SEWER LATERALS WITH CLOCK POSITIONS AND DISTANCE FROM MANHOLES.
  - c. DEFICIENCIES IN THE SEWER PIPE INCLUDING BELLIES.
  - d. SPECIAL NOTES DESCRIBING AREAS OF CONCERN.
  - e. ANY DEFICIENCIES NOTED SHALL ACCOMPANY A DIGITAL PHOTO ATTACHED OR INCLUDED IN THE REPORT.

## STANDARDS FOR BELLIES/DIPS IN SEWER MAINS

SANITARY SEWERS SHALL BE DECLARED AS "NOT APPROVED" IF BELLIES/DIPS IN THE MAIN LINE EXCEEDS THE FOLLOWING CRITERIA:

### PIPE SIZES

SLOPE	8"	10"	12"	15"	18"	21"	24"	>27"
0.10%	2"	2.5"	3"	4"	4"	4"	4.5"	5"
0.12%	2"	2.5"	3"	4"	4"	4"	5"	5"
0.15%	2"	2.5"	3"	3.5"	3.5"	4"	4"	4"
0.22%	2"	2.5"	3"	3"	3.5"	3.5"	3.5"	4"
0.28%	2"	2"	2"	2.5"	2.5"	3"	3"	
0.40%	2"	2"	2"	2"	2.5"	2.5"	2.5"	
0.60%	1"	1"	1"	1"	1"	1"	1"	
1.00%	0"	0"	0"	0"	0"	0"	0"	

MAXIMUM ALLOWABLE BELLIES IN PIPE (INCHES)

## SEWER TELEVISING PROCEDURES FOR NEW SEWER CONSTRUCTION

- A. THE SANITARY SEWER SHALL BE COMPLETELY CLEAN AND FREE OF DEBRIS USING A HIGH PRESSURE JET RODDER CAPABLE OF SCOURING THE PIPE WALLS.
- B. ALL DEBRIS SHALL BE VACUUMED OUT OF THE SEWER MAIN.
- C. ONCE CLEANING HAS BEEN COMPLETED, THE CONTRACTOR SHALL RUN CLEAR WATER IN THE NEW SEWER MAIN TO FILL ANY POTENTIAL BELLIES IN THE LINE. THE CONTRACTOR SHALL CALCULATE THE VOLUME GALLON CAPACITY OF THE SEWER MAIN AND SHALL USE THAT MUCH WATER TO FILL POTENTIAL BELLIES/DIPS.
- D. THE CONTRACTOR MAY RENT A WATER HYDRANT METER FROM THE CITY TO PERFORM THIS TASK.
- E. THE CONTRACTOR SHALL MAKE SURE THAT THERE IS NO FLOW EMANATING UPSTREAM. IF SO, THE CONTRACTOR SHALL STOP THIS FLOW DURING THE TELEVISING.
- F. THE CONTRACTOR SHALL TELEVISE THE SEWER FOLLOWING THE TELEVISING STANDARDS.

## SEWER TELEVISING PROCEDURES FOR SEWER RECONSTRUCTION PROJECTS

- A. BEFORE COMMENCEMENT OF THE CLEANING PROCESS, THE TELEVISING CONTRACTOR SHALL NOTIFY ADJACENT AND Affected PROPERTY OWNERS BY GOING DOOR-TO-DOOR AND NOTIFYING THEM OF THE POSSIBILITY OF SEWER BACKUP DURING THE CLEANING PROCESS.
- B. THE SANITARY SEWER SHALL BE COMPLETELY CLEANED AND FREE OF DEBRIS USING A HIGH PRESSURE JET RODDER.
- C. ALL DEBRIS SHALL BE VACUUMED OUT OF THE SEWER MAIN.
- D. ONCE CLEANING HAS BEEN COMPLETED, THE CONTRACTOR SHALL BAG THE UPSTREAM MANHOLE AND PUMP THE SEWAGE FLOW DOWNSTREAM AND SHALL MAINTAIN PUMPING DURING THE TELEVISING PROCESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SEWER FLOODING AS A RESULT OF THEIR ACTIVITIES.
- E. AFTER THE PUMP BYPASS HAS BEEN ESTABLISHED, THE CONTRACTOR SHALL RUN CLEAR WATER IN THE RECONSTRUCTED SEWER MAIN TO FILL ANY POTENTIAL BELLIES IN THE LINE. THE CONTRACTOR SHALL CALCULATE THE VOLUME GALLON CAPACITY OF THE SEWER MAIN AND SHALL USE THAT MUCH WATER TO FILL POTENTIAL BELLIES/DIPS.
- F. THE CONTRACTOR MAY RENT A WATER HYDRANT METER FROM THE CITY TO PERFORM THIS TASK.
- G. THE CONTRACTOR SHALL TELEVISE THE SEWER FOLLOWING THE TELEVISING STANDARDS.

## PASSING SANITARY SEWERS

- A. THE CITY OF SIDNEY WILL NOT PASS OR ACCEPT THE SANITARY SEWER FOR FINAL PAYMENT WITHOUT HAVING A PASSING VIDEO AND LOG OF THE SANITARY SEWER TELEVISING FOLLOWING THE STANDARDS PREVIOUSLY DESCRIBED.
- B. ALL TELEVISING WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
- C. THE CITY RESERVES THE RIGHT TO A FINAL RE-TELEVISING AT THE CONTRACTOR'S EXPENSE IF DEFICIENCIES ARE NOTED ON THE INITIAL TELEVISING WORK AND AFTER THE CONTRACTOR MAKES THE NECESSARY REPAIRS.



CITY OF  
SIDNEY

# SANITARY SEWER TELEVISING STANDARDS

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