

Appendix D- SOP for Television Inspections

TELEVISION INSPECTION

The purpose of televising the sanitary sewer system is to provide a conditional assessment of the sanitary sewer.

Personal Protective Equipement (PPE) Required

- Approved Safety Vest
- Safety Boots
- Gloves

Equipment Check

- Prior to leaving shop check equipment and TV van.
- Check generator oil level
- Secure all TV Van equipment: Cameras, Transporters, Tools.
- Start the generator turn on the video data display
- Power up camera, and light head switches, set light intensity dial, and run diagnostic check
- Turn on video recording system.
- Check transporter for proper mechanical operations.
- Do a walk around of the TV van & check the tires lights & condition of the vehicle.
- Check that PPE is either on your person or in the van.

Drive to work assignment location

- Prior to driving, check mirrors and buckle up.

Main Duties:

Crew Member #1: The main duties for crew member #1 are to maintain all records by using a lap top computer with CarteGraph soft ware and a wireless card installed for data collection. This consists of entering data onto TV logs sheets, retrieving old records that would be useful during inspection of the line segments, audio information for video logs, and maintenance of daily crew time card.

Crew Member #2: The duties of crew member #2 deals with all outside work regarding placement of camera into line segment and assisting crew member #1 in inspection log data recording.

Collection SOPs

Television Inspection

Upon arriving to the work assignment location, put on all PPE's

Crew Member #1: Positions the truck on the manhole so the reel with the TV cable is aligned with the center of the MH. Turn on all safety and caution lights.

Crew Member #2: Place traffic cones around truck and manhole. Position traffic signals, signs, and arrow board if needed.

Crew Member #1: Turns on the lap top computer & logs onto Windows program, than starts the wireless card by entering connect to start the system, than start the 2X card that give you access to the server, than use you log in ID for access to the CarteGraph soft ware, now you can draw up log sheet to start your data collection of the line segment to be completed.

Crew Member #2: Remove manhole cover using proper ergonomics (crane and magnet) and measure depth of manhole. Visually inspect manhole for defects. Remove the transporter from truck using the crane and prepare to lower the unit into manhole.

Crew Member #1: Set menu on video data display and enter manhole numbers, plat identification and other recommended information. Begin recording.

Crew Member #2: Lower transporter into manhole using the crane. Makes sure transporter is facing the correct direction. As per Crew Member #1 instructions. (i.e. with the flow or against the flow if it is a reverse set up.)

Crew Member #1: Drive transporter to the preset position for TV inspection. The preset position for the CPR is 8' and the ultra shorty III is 9.5"

Crew Member #2: Set cable protection tube (tiger tail) or roller into manhole. Set top roller onto manhole ring. Retract excess cable until line is taut. Set outside mechanical counter to zero. Place rear transmission in neutral.

Crew Member #1: Set preset distance on video data display.

Both crew members will begin the TV inspection and data entry of that segment from the control room. Crew Member #1 will record the data on the lap top computer using CarteGraph soft ware while Crew Member #2 drives the transporter through the pipe and operates the pan & tilt camera & calls out the defects and footage services and wyes' to Crew Member #1.

Collection SOPs

TV Inspection Completion:

Crew Member #1: Turns off recorder and finalizes the TV inspection on line and saves log sheet.

Crew Member #2: places the transporter in the neutral position & pulls it back with the TV cable reel to the starting MH. Than removes transporter from manhole, and place manhole cover back on the manhole. Next, check for mechanical problems while washing transporter, then places transporter back into TV truck and secure. Pick up all cones, signs and arrow board if used.

Consult map and drive to next location.