BUILD SPECIFICATIONS JET EYE
JET/VIDEO SYSTEM

INTENT:

It is the intent of these specifications to describe the minimum requirements for a sewer video/cleaning system used in conjunction with an existing High Pressure Sewer Cleaner System. The expressed purpose of this equipment is to increase the capabilities of a new or existing high pressure sewer cleaner and video inspection.

The equipment shall be furnished completely installed on specified sewer cleaners existing hose reel and be ready for use, All parts not specifically mentioned which are required for a complete unit shall conform in design, strength, quality of material and workmanship to the highest standard of engineering practice.

This equipment shall allow for the existing sewer cleaner to be capable of cleaning are root cutting while the TV system is visible and operating.

GENERAL TERMS:

All equipment furnished under this contract shall be new and current production. Accessories not specifically mentioned herein, but necessary to furnish complete unit ready for use, shall also be included. Unit and shall conform to the best practice known to the body trade in design, quality of material and workmanship. The equipment furnished shall be manufactured in the USA.

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PARTS MANUAL:

Bidder shall furnish complete parts, maintenance, and operator's manual with each body sold.

STATE DELIVERY TIME: TBD

CONVERSION QUALIFICATIONS AND LOCATION:

Sewer Cleaner conversion to be preformed by JET/EYE factory trained personnel

Sewer Cleaner conversion to be performed at following location.

OPERATING CONTROLS:

All controls including viewers for operating the JET/TV shall be located at operator station.

HOSE REEL ASSEMBLY:

The Sewer Cleaners existing hose reel design and purpose shall not be modified in installation or operation of JET/EYE TV/JETTING SYSTEM.

JET/VIDEO HOSE 500' STANDARD (Hose Size Pending)

The TV- jet hose shall be Kevlar reinforced and have a minimal I.D. of 3/4" minimum bend radius of 4.0" and rated minimum burst pressure of 7,500 PSI. The double braided armored single conductor TV cable must be bonded directly to the sewer hose the cable shall be .35 in diameter.

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The single conductor TV – Jet Hose to have tensile strength of 6000 lbs.
The jet hose shall incorporate a strain relief system with the jet nozzle.
The jet nozzle and strain relief system shall be stainless steel
The Jet hose system shall utilize a stainless steel nozzle assembly. The nozzle shall utilize ceramic tips and be spaced to provide clearance for the video hose.

TV SYSTEM
System to include One (1) color CCD Self uprighting cameras with built-in solid state LED lighting source The light intensity shall be automatically set. The Camera system shall be designed for all inspection needs.
The case shall be removable from the camera/video viewer.
For ease of field troubleshooting, power to the camera assembly shall be supplied through the single conductor TV – Jet Hose.
COLOR MONITOR MODULE/ VIDEO RECORDING /CONNECTOR
The monitor shall have a 7” LCD screen. The monitor shall be located in the control panel and located between the two hose reels and provide sun protection for viewing.
All aluminum construction and adjustable.
Key board for editing
The recorder, LCD screen shall be mounted in a weather tight case for safety and security.
Flash drive (8 gig) one touch recording
The connector housing shall permit the camera to be rotated to any position and then set in the desired position by manually screwing the camera on the spring.
The connector shall be designed to take the full cable load tension and continue to power the camera and return video signal when the camera is being pushed and manipulated in the sewer pipe line.
Digital Footage counter on JET/TV cable reel, single roller with encoder footage to have reset controls and digital viewing on monitor screen.

CAMERA SKATE SYSTEM

The camera skates (carrier) shall be as follows:

6” camera carrier made of aluminum

8 replaceable wheels

The camera skate shall allow the use of 35mm wheels through 80mm wheels.

8” camera carrier made of aluminum

6 replaceable wheels

The camera skate shall incorporate a camera carrier for housing the camera and protection while in operation.