

**Specifications for:**

**City of Mountlake Terrace**

Equipment to be Supplied: **DRW Van with Multi-Conductor  
TV Inspection Equipment**

Each camera, camera transporter, and external lighthouse to be supplied on this specification must be labeled and listed as a minimum by a Nationally Recognized Testing Laboratory (NRTL) to the applicable Standard for Safety for Closed Circuit Television Equipment, UL 2044, 2nd edition, 11/9/01. A listing report must be supplied that certifies the aforementioned equipment is acceptable as defined by 29 CFR 1910.399 and required by 29 CFR 1910.303(a). Self-certification or certification by a laboratory that is not an NRTL will be deemed unacceptable. NRTL labeled and listed equipment shall be supplied as required by the FEDOSHA memorandum, dated September 25, 2005, page 3, Section on Compliance, prepared by John L Henshaw, Assistant Secretary of Occupational Safety and Health.

**Component List:**

**TV DRW VAN HI-CUBE 12' GAS**

- 1 TV DRW Hi-Cube Van Gas (12,000 GVWR) with Automatic Transmission and 12' Loadspace**
  - 1 Aerocap with Full Height Pass Thru To Control Room
  
- 1 DRW TV Hi-Cube Van Equipment to include:**
  - 2 Amber Electronic Strobe Warning Beacons - Roof Mount with on/off switch in Cab
  - 2 Adjustable Floodlights Rear of Vehicle Area Illumination - Mounted Inside of Rear Doors
  - 1 Standard Drivers Seat with Seatbelt and Sunvisor
  - 1 Standard Passenger Seat with Seatbelt and Sunvisor
  - 1 12 Volt Light, Cab Area
  - 1 Back-Up Alarm
  - 1 Cab Air Conditioner
  - 1 AM/FM Radio
  
- 1 TV DRW Hi-Cube Van Power Package to include:**
  - 1 6000 Watt, 120 Volt, 60 Hz Commercial Grade Generator, Gasoline Powered with Electric Start
  - 1 Generator Remote Start/Stop Cable Assembly
  - 1 Generator Storage Compartment with a Lockable External Access Door
  - 1 Commercial Power Supply Receptacle, 25' Cord and Plug
  - 1 Electric Supply Center with Circuit Breaker Box, Commercial Power and Generator Power Connectors
  - 1 Automatic Power Transfer Switch
  
- 1 System Engineering Panel, Power Distribution System Rack Mount to include:**
  - 1 Voltage Readout, Power Supply
  - 1 Hertz Readout, Power Supply for 60Hz
  - 1 Generator Hour Readout
  - 1 Remote Generator Start/Stop Control Switch
  
- 1 DRW TV Hi-Cube Van Control Room Interior to Include:**
  - 1 13,500 Air Conditioner Roof Mount with 5600 BTU Heat Strip
  - 1 Lonseal Lonplate Flooring
  - 1 Kemlite Surface Wall Covering
  - 1 Kemlite Ceiling Covering
  - 1 Bulkhead Wall with Passage Door From Control Room To Equipment Room with "Safety Plus Visual" Viewing Window
  - 1 Ergonomic (angled) Placement of Main Controllers in Desktop with Recessed Housing
  - 1 EVO II above Desk Mounted Control Console for Electronic Equipment

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- 1 Desktop/work area
- 1 Storage under desk
- 1 12V Courtesy Light with 15 Minute Timer located at rear door area
- 1 110 Volt Fluorescent Light Fixture
- 1 Electrical Outlet with Dual Receptacles
- 1 Fire Extinguisher with Bracket, 10 BC Rating
- 1 Operators Chair With Castors
- 1 Padded Bench Seat with Storage

**1 DRW TV Hi-Cube Van Equipment Room Interior to Include:**

- 1 Aluminum Treadplate Flooring
- 1 Kemlite Covered Walls and Ceiling
- 1 Insulated Tapered Roof
- 1 Climate controlled Breaker Box/Electronics Storage Area with Locking Positive Latches
- 1 Electrical Outlet with Dual Receptacles
- 1 110 Volt Fluorescent Light Fixture
- 1 Downhole Pole Mounting Bracket Assembly on rear doors
- 1 12V Courtesy Light with 15 Minute Timer located at rear door area

**1 OZ III Pan, Tilt, and Zoom Camera System to include:**

- 1 Solid State Color Sewer TV Camera with a Pan & Rotate Camera Head, 40:1 Zoom Ratio, 10x Optical Zoom, 4x Digital Zoom, NTSC Color Standard, 4x Light Integration
- 1 Camera Lighting System, built in for 6" Relined through 30" Pipe
- 1 Camera Transportation and Storage Case

**1 Color TV Power Control Unit-Multi Conductor Rack Mount, NTSC Color Standard to include:**

- 1 TV Camera Remote Optical Focus Control
- 1 TV Camera Automatic Iris Remote Control
- 1 TV Camera Lighthouse Intensity Control w/Meter
- 1 Camera Test Cable Assembly

**1 17" LCD Flat Screen Color Industrial TV Monitor, NTSC/PAL Color Standards, Built-in Speakers**

**1 DVD Recorder System to include:**

- 1 Rack Mount for DVD
- 1 Sony RDR GX7 DVD recorder or Equal
- 1 Cable Assembly - DVD to Power Control Unit

**1 Pipeline Data Collection & Real Time Video Capture System, Rack Mount, to include:**

- 1 Motherboard w/775 Socket and 945P Chipset
- 1 Genuine Intel Dual Core E4400 ALLENDALE 2GHZ
- 1 3 GB of DDR2 (Double Data Rate) RAM
- 1 PCI Video Capture Board for MPEG1/2/4 Video Capture with Hardware Compression
- 1 Video Graphics Card, Supporting up to 256MB, 16x PCI-Express
- 1 LAN, On Board Network Connection, Intel 82547E1 10 / 100 / 1000
- 8 USB 2.0 Ports (6 on Rear, 2 on Front)
- 1 Soundblaster Compatible, On Board Sound
- 1 DVD +/- RW DVD Burner 16x / CD-RW 40x Internal
- 2 500 GB (7,200 RPM) SATA Hard Drives
- 1 450 Watt ATX Power Supply
- 1 19" Rack Mountable Video Character Generator & Titler

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- 1 Industrial Hardened Case with Air Filtering, Vibration Dampening Hard Drive Mounts, Peripheral, Cards Support Bar, 19" Rack
- 1 101 Key Enhanced Heavy Duty Keyboard
- 1 Optical PS2/USB Mouse
- 1 SVGA Multimedia Monitor w/ Speakers 17"
- 1 Desk top Color Ink Jet Printer, 600x300 dpi, 512K
- 1 Windows XP Professional Operating System
- 1 GRANITE XP Inspection Edition Version 2.x Software
- 1 User Guide, Hard-copy
- 1 User Guide, CD
- 1 One Year Enhanced Support

**1 Combination TV Transmission & Tow Cable Assembly to include:**

- 1 **1000' Multi Conductor Platinum Kevlar Fiber Armored Cable, .437 " Diameter**
- 1 Kevlar Armored Cable Terminal Connector
- 1 **Stainless Steel bullet connection – field repairable – no scotchcast**
- 1 Cable Strain Relief

**1 Electric Motor Drive Television Cable Reel to include:**

- 1 Power Level Wind
- 1 Footage Meter with Local Counter and Remote Counter
- 1 Transmission Control at Viewing Station
- 1 Local Reel Mount Electrical & Mechanical Control
- 1 Sealed Continuous Contact Collector Assembly
- 1 Controller Cable Reel/Power Winch Motor

**1 Self-propelled Wheeled Camera Transporter, Wheel Driven, to Include:**

- 1 Set of Rubber Wheels to inspect 6" Pipe
- 1 Set of Rubber Wheels to inspect 8" Pipe
- 1 Set of Rubber Wheels to inspect 10" – 15" Pipe
- 1 Set of Weighted Adapters for 18"-24" Pipe
- 1 The Unit Shall Have Forward, Free Wheel, and Powered Reverse Capabilities
- 1 All Six (6) Wheel Drive Transporter Assembly to Include Motor and Enclosed Drive Train
- 1 Transporter Controller w/Automatic Safety Off
- 1 Transporter Control Unit

**1 Cable Manhole Guide System to include:**

- 1 TV Invert Pulley Assemblies
- 6 Quick Coupling Extension Poles
- 1 Manhole Adapter Hooks
- 1 Manhole Top Roller Assembly
- 1 Equipment retrieval tool

**1 TV Inspection Accessories Package to include:**

- 1 TV Maintenance Tool Kit
- 1 Set Manual Operation, Instruction and Maintenance TV
- 1 Manual Spare Parts, TV
- 1 Video Training Tape, TV Systems Operating Procedures
- 1 Video Training Tape, System Trouble Shooting Procedures
- 1 Video Training Tape, TV Cable Repair Procedures

**Specifications for:**

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**3 Days of Training**

**1 Delivery**

**End Component List**

**Item 1:**

1 Auto Payout for TV Reel

**Item 2:**

1 Workbench with Lonseal Lonplate covered worktop, Sink, Upper Storage Cabinet and 20 Gallon Wash Down Retractable Hose Reel with 25' Water Hose