

# Special Provision to Item 556

## Pipe Underdrains



Item 556, "Pipe Underdrains" of the Standard Specifications is amended with respect to the clauses cited below. No other clauses or requirements of this Item are waived or changed.

**Article 556.3. "CONSTRUCTION,"** is supplemented by the following:

- 3.1. **Video Inspection.** Video inspect Pipe Underdrains after all paving operations have been completed and all roadside Items of work have been substantially completed as determined by the Engineer. A video record and written report for each line inspected must be furnished to the Engineer. The line identification, distance traversed by the camera and pipe deficiency must be recorded on the portable digital storage device, acceptable to the Engineer, and in the written report.

Equipment used for inspecting the underdrain system must satisfy the following minimum requirements:

- The system must be capable of providing color video inspection of pipelines from 3.5 in. to 8.0 in. inside diameter in a wet, corrosive environment and must be capable of negotiating a 90° bend in a 4 in. or larger diameter, smooth bore or corrugated drainpipe.
- The system must be capable of video inspecting up to 300 ft. of Pipe Underdrains, by push rodding, pull cabling, jetting or tractoring the camera through the line and recording the condition on the portable digital storage device.
- The system must be equipped with a video monitor capable of allowing live viewing of the video inspection
- The system must be capable of displaying and recording on the portable digital storage device the date, line identification, footage and type of pipe deficiency.
- The system must be capable of recording the distance traversed by the camera to within 0.5 ft., allowing for overlapping of distances if a reversal is required to permit full-length inspection.

Any foreign materials that impede the placement or movement of the inspection equipment within the underdrain system must be flushed from the system. Flushing of the underdrain system will be required when efforts are needed beyond the normal, as determined by the Engineer, to allow forward progress or to prevent obscured vision of the video inspection equipment.

Any underdrain pipe that is damaged or does not conform to the lines and grades shown on the plans must be replaced at no cost to the Department.

The Contractor must install the required rodent screens promptly after satisfactory video inspection is completed on a section of underdrain.

- 3.2. Do not track equipment upon unprotected Pipe Underdrains.

**Article 556.4., "Measurement,"** is supplemented by the following:

This Item will be measured by the foot of Pipe Underdrains specified on the plans or as directed. Repaired Pipe Underdrains must be re-video inspected at no additional cost.

**Article 556.5., "Payment,"** is supplemented by the following:

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Pipe Underdrains (Video Inspection)." Video inspection completed and accepted and measured as provided above will be paid for at the contract unit price bid per foot) for Pipe Underdrains (Video Inspection), which price is full compensation for furnishing all the portable digital storage device records and written reports; for flushing the completed Pipe Underdrains whenever foreign material impedes the movement of the inspection equipment or quality of the video; and for all labor, equipment tools and incidentals necessary to complete the work.