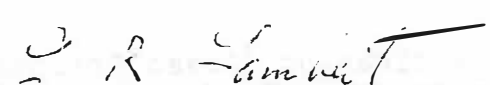


TO:		<b>ENGINEERING INSTRUCTION</b>	
<b>SUPERSEDED BY EB 97-039</b> <b>EFFECTIVE 7/1/97</b>		NEW YORK STATE DEPARTMENT OF TRANSPORTATION	
		SUBJECT: CLEANING CULVERTS, CLOSED DRAINAGE SYSTEMS, DRAINAGE STRUCTURES, AND MANHOLES	
		Subject Code: 7.27-1-203	
Distribution:		30 Main Office      32 Regions      34 Special	Code: <u>  EI 91-26  </u>
APPROVED:		Date: <u>  10/23/91  </u>	
 J. R. LAMBERT, Deputy Chief Engr., Facilities Design Div.		Supersedes: <u>  NA  </u>	

This Engineering Instruction transmits revisions to Section 203 of the Standard Specifications concerning the cleaning of drainage structures, manholes, culverts and closed drainage systems. The attached proposal insert accomplishes the following and will be added to proposals by the Main Office:

- A. Clarifies the pay limits and work performed under Item 203.17 - Cleaning Culverts and Item 203.18 - Cleaning Closed Drainage Systems.
- B. Issues Item 203.19 - Cleaning Drainage Structures and Manholes, which should be used when the cleaning of catch basins, field inlets, drop inlets, leaching basins and manholes is necessary. The remainder of the closed drainage system should be cleaned under Item 203.18 - Cleaning Closed Drainage Systems, if necessary.

The following items will be disapproved for use beginning with the letting of May 7, 1992:

<u>Item</u>	<u>Description</u>	<u>Pay Unit</u>
15604.11	Cleaning Existing Catch Basins, Manholes, Field Inlets and Drop Inlets	Each
05604.1101	Cleaning Manholes, Drop Inlets and Curb Receivers	Each
08604.1101	Cleaning Existing Catch Basins, Manholes, Field Inlets and Drop Inlets	Each

The following item replaces the above disapproved items and should be used beginning with the letting of May 7, 1992:

<u>Item</u>	<u>Description</u>	<u>Pay Unit</u>
203.19	Cleaning Drainage Structures and Manholes	Each

Subject: CLEANING CULVERTS, CLOSED DRAINAGE SYSTEMS, DRAINAGE STRUCTURES, AND  
MANHOLES

Questions regarding the information contained in this instruction should be directed to either Bruce Zeh or Glenn Novak of the Design Quality Assurance Bureau at (518) 457-4090.

### Background

Existing standard pay item 203.18 - Cleaning Closed Drainage Systems has been the cause of controversy with designers, construction personnel and contractors involved in projects throughout the state. While the title, description and construction details for the specification seem to indicate that the entire closed drainage system is to be cleaned (including manholes and drainage structures), the measurement and payment for the item is based upon the length of pipe between the inside walls of adjacent manholes or drainage structures. Thus, the item does not include measurement or payment for the removal of debris from manholes or drainage structures incorporated into the closed drainage system. The apparent discrepancy between the actual work requirements and the payment lines indicated in the specification result in controversy both during design and between construction personnel and contractors during construction. The problem is further complicated by the existence of special specifications such as, 05604.1101, 08604.1101 and 15604.11 for the cleaning of existing catch basins, manholes, field inlets and drop inlets. These items cover the cleaning of existing drainage structures and manholes and have been inconsistently used in conjunction with Item 203.18.

For these reasons, this instruction has been issued in an attempt to remediate existing inconsistencies and standardize pay items and procedures for the cleaning of culverts, closed drainage systems, drainage structures and manholes.

CLEANING CULVERTS, CLOSED DRAINAGE SYSTEMS, DRAINAGE STRUCTURES AND MANHOLES

Make the following changes to the Standard Specifications of January 2, 1990:

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Delete "203-1.17 Cleaning Culverts And Closed Drainage Systems" in its entirety and Replace with the following: "203-1.17 Drainage Structure. Drainage structures include catch basins, field inlets, drop inlets, leaching basins and similar structures that collect and/or redirect runoff water."

Add the following: "203-1.18 Culvert. A culvert is defined as an enclosed channel open at both ends serving as a continuation of and/or a substitute for an open stream or water course, where that stream or water course meets an artificial barrier such as a roadway embankment."

Add the following: "203-1.19 Closed Drainage System. A closed drainage system is defined as an enclosed channel which is closed at either one or both ends by a drainage structure, and may include intermediate manholes at junction points. It serves as a collection system for runoff water and carries the water to a discharge point."

Add the following: "203-1.20 Cleaning Culverts, Closed Drainage Systems, Drainage Structures and Manholes. The contractor shall clean and maintain clean for the duration of the contract the existing culverts, closed drainage systems, drainage structures and manholes indicated in the contract documents or where directed by the Engineer."

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Delete "203-3.19 Cleaning Culverts and Closed Drainage Systems" in its entirety and Replace with the following: "203-3.19 Cleaning Culverts, Closed Drainage Systems, Drainage Structures and Manholes. Culverts, closed drainage systems, drainage structures and manholes shall be cleaned in a workmanlike manner and maintained clean as determined by the Engineer for the duration of the contract. Materials removed shall be disposed of in accordance with 203-3.08 Disposal of Surplus Excavated Materials."

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Delete "203-4.13 VACANT" and replace with the following: "203-4.13 Cleaning Drainage Structures And Manholes. This work will be measured as the number of drainage structures or manholes cleaned and maintained within the inside walls of the structure."

Under 203-5.06 Cleaning Culverts And Closed Drainage Systems, Add the following sentence to the end of the paragraph: "The cleaning of drainage structures and manholes shall be paid for under their respective item."

Add the following: "203-5.07 Cleaning Drainage Structures And Manholes. The unit price bid for each shall include the cost of all labor, materials and equipment necessary to satisfactorily perform the work. Payment for cleaning drainage structures and manholes will be made only for those facilities designated on the plans or by the Engineer. Only one payment for each facility will be made regardless of the number of times it is cleaned."

Under Payment will be made under; Add the following to the list of items:

<u>Item No.</u>	<u>Item</u>	<u>Pay Unit</u>
"203.19	Cleaning Drainage Structures and Manholes	Each"