

# EXPECTED IMPLEMENTATION JULY 2003

## 430 PIPE CULVERTS AND STORM SEWERS.

(REV 11-7-02) (FA 1-28-03) (7-03)

ARTICLE 430-11 (of the Supplemental Specifications) is deleted and the following substituted:

### 430-11 Method of Measurement.

**430-11.1 New Pipe:** The quantities of storm drain pipe, storm drain trench, and cross drain pipe, side drain pipe and gutter drain pipe to be paid for will be plan quantity, in place and accepted. The plan quantity will be ~~measured-determined~~ from the inside wall of the structure as shown on the plans, along the centerline of the pipe.

~~The quantities of side drain pipe and gutter drain pipe to be paid for will be the net length plan quantity of pipe measured in place, completed and accepted.~~

**430-11.2 Relaid Pipe:** The quantity to be paid for (including relaid pipe arch) will be the net length of pipe, measured in place after relaying, completed and accepted.

**430-11.3 Mitered End Section:** The quantity to be paid for will be the number completed and accepted.

ARTICLE 430-12 (of the Supplemental Specifications) is deleted and the following substituted:

### 430-12 Basis of Payment.

**430-12.1 General:** Prices and payments will be full compensation for all work specified in this Section, including all excavation except the volume included in the items for the grading work on the project, and except for other items specified for separate payment in Section 125; all backfilling material and compaction; disposal of surplus material; and all clearing and grubbing outside of the required limits of clearing and grubbing as shown in the plans.

~~**430-12.2 New Pipe:** The quantities of storm drain pipe, storm drain trench, and cross drain pipe to be paid for will be plan quantity, in place and accepted. The plan quantity will be determined from the inside wall of the structure as shown on the plans, along the centerline of the pipe.~~

~~The quantities of side drain pipe and gutter drain pipe to be paid for will be plan quantity in place, completed and accepted.~~

**430-12.32 Relaid Pipe:** Price and payment will be full compensation for all work, including hauling the pipe to the new location as necessary, any cleaning necessary and, for metal pipe, any straightening, etc., which might be required.

**430-12.43 Removing Existing Pipe:** When existing pipe is removed and replaced with new pipe approximately at the same location, and clearing and grubbing is not designated to be paid for in the particular area, the cost of excavating and removing the old pipe and of its disposal will be included in the Contract unit price for the new pipe in place.

**430-12.5-4 Replacing Pavement:** The cost of restoring pavement, curb, sidewalk, etc., removed only for the purpose of constructing pipe culvert, as specified in 125-11, will be included in the Contract unit price for the pipe culvert, unless designated specifically to be paid for under other items.

**430-12.6-5 Plugging Pipes:** The cost of plugging pipes, where so shown in the plans, will be included in the Contract unit price for the pipe culvert.

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**430-12.7-6 Flared End Sections:** Price and payment will be full compensation for all work and materials required.

**430-12.8-7 Mitered End Sections:** Price and payment will be full compensation for all pipe, grates when required, fasteners, reinforcing, connectors, anchors, concrete, sealants, jackets and coupling bands, and all work required.

**430-12.9-8 Railroad Requirements:** Where pipe culvert is constructed under railroad tracks, the Contract unit price for the pipe culvert will include the costs of any jacking operations and the operation of placing the pipe by use of a tunnel liner, (except as specified for unanticipated tunnel liner, in 430-6.5, where reimbursement is to be made for such unanticipated liner), and all other work necessary to meet the requirements of the railroad company, excluding the costs of watchman or flagman services provided by the railroad company, except as provided below.

The Department will reimburse the Contractor for the actual costs of any trestle bridge work which is performed by the railroad's forces, as billed to him by the railroad, less the value of any salvage materials derived there from, whether such salvage materials are retained by the railroad company or by the Contractor. When the work of shoring and bracing is to be performed by the railroad, such fact will be stipulated in the Contract Documents and the Contractor will be required to pay to the railroad the amount of such costs, which amount will be reimbursed to him by the Department. The Contract unit price for the pipe culvert shall include the costs of all other work of shoring and bracing.

**430-12.10-9 Payment Items:** Payment will be made under:

Item No. 430-17-	Pipe Culvert Optional Material - per foot.
Item No. 2430-17-	Pipe Culvert Optional Material - per meter.
Item No. 430-96-	Polyvinyl Chloride Pipe - per foot.
Item No. 2430-96-	Polyvinyl Chloride Pipe - per meter.
Item No. 430-98-	Mitered End Section - each.
Item No. 2430-98-	Mitered End Section - each.
Item No. 430-150-	Cast Iron Pipe Culvert - per foot.
Item No. 2430-150-	Cast Iron Pipe Culvert - per meter.
Item No. 430-190-	Relay Existing Pipe - per foot.
Item No. 2430-190-	Relay Existing Pipe - per meter.
Item No. 430-200-	Flared End Sections - each.
Item No. 2430-200-	Flared End Sections - each.
Item No. 430-610-	U-Endwall With Grate - each.
Item No. 2430-610-	U-Endwall With Grate - each.