

## **DESILTING PIPES AND BOX CULVERTS.**

**(REV 8-2-13) (7-21)**

The following new Section is added after Section 430:

### **SECTION 430-94 DESILTING PIPES AND BOX CULVERTS**

#### **430-94-1 Description.**

Remove and dispose of silt, debris, vegetation, soil, rock, or any type of blockage inside a pipe or box culvert to provide maximum drainage capacity.

#### **430-94-2 General Requirements.**

Clean the pipe or box culvert by removing all of the silt and debris so that the drainage capacity is one hundred percent of the original design capacity of the pipe or box culvert. Perform desilting operations in a manner not to damage the pipe, box culvert or surrounding area.

Meet the requirements of Federal, State and local environmental standards and laws when performing all activities.

Meet the requirements of Section 104 Prevention, Control and Abatement of Erosion and Water Pollution of the Florida Department of Transportation Standard Specifications for Road and Bridge Construction and revisions thereto (current at the time of contract letting).

When water is present, de-water the pipe or box culvert to facilitate cleaning and inspection. Access to the pipe or box culvert may require temporary removal of fence, signs, guardrail, grates or manhole covers. Replace according to Department standards at the completion of the desilting operation or each day, as appropriate for safety.

Align infall and outfall ditches 50 feet from the pipe or box culvert to meet the existing line and grade. If the Right-of-Way line is less than 50 feet from the pipe or box culvert, align infall and outfall ditches to the Right-of-Way line. Grade and sod any disturbed areas caused by the desilting operation.

Identify and report to the Engineer necessary repairs to the pipes or box culverts exposed during the desilting operation.

Dispose of all silt and debris removed in the desilting operations in areas meeting Federal, State and Local Rules and Regulations.

Repair or replace damage to turf, pavement, signs or structures, etc. due to negligence to the satisfaction of the Engineer at no additional cost to the Department. Complete repairs prior to submission of the invoice for work accomplished.

#### **430-94-3 Inspection.**

Maintain de-watering after completion of the desilting operations to allow for inspection.

Re-clean structures determined to be unacceptable by the Engineer within the time specified at no additional cost to the Department.

**430-94-4 Method of Measurement.**

**430-94-4.1 General:** The cost of temporary removal and subsequent replacement of fence, signs, guardrail, grates or manhole covers will be included in the contract unit price for the related item.

Infall and outfall ditch alignment, grading and sodding will be included in the contract unit price of the related item.

**430-94-4.2 Desilting Pipe:** The quantities for payment will be the length in feet of pipe desilted and accepted.

**430-94-4.3 Desilting Box Culverts:** The quantities for payment will be the volume in cubic yard of material removed from the box culvert.

**430-94-5 Basis of Payment.**

Price and payment will be full compensation for furnishing all equipment, tools, labor, disposal of silt and debris, de-watering, erosion and water pollution control, clean up and all incidentals necessary for the satisfactory performance of the work.

Payment will be made under the items specified in the Bid Price Proposal.