

# EXPECTED IMPLEMENTATION JULY 2022

## 440 UNDERDRAINS

(REV 11-10-21) (FA 1-12-22) (7-22)

ARTICLE 440-2 is deleted and the following substituted:

### 440-2 Materials.

Meet the following requirements:

Concrete Pipe .....	Section 449
Filter Aggregate .....	Section 902
Corrugated Steel Pipe .....	Section 943
Corrugated Aluminum Pipe .....	Section 945
Polyvinyl-Chloride Pipe.....	Section 948
Corrugated High Density Polyethylene Pipe .....	Section 948
Corrugated Polypropylene Pipe .....	Section 948
Steel Reinforced Polyethylene Ribbed Pipe .....	Section 948
Filter Fabric Sock.....	Section 948
Geotextile Fabrics* .....	Section 985

\*Use products listed on the Department's Approved Product List (APL).

ARTICLE 440-4 is expanded by the following new Subarticle:

### 440-4 Laying Pipe.

**440-4.1 General:** Bed the pipe firmly on the bottom of the trench, with the perforations down and joints securely made.

**440-4.2 Corrugated Steel Pipe - Protection of Coating:** Handle corrugated steel pipe in such a way that the zinc or aluminum coating will not be bruised or broken. Do not use pipe showing bruises or breakage of the zinc or aluminum coating.

**440-4.3 Protection of Drain Inlet:** Protect the influent end of the pipe in a manner which will prevent any soil from entering the drain.

**440-4.4 Lateral Connections:** Make lateral connections with prefabricated wyes, tees, elbows, etc., as required.

**440-4.5 Underdrain Inspection Box:** Construct underdrain inspection boxes in accordance with Standard Plans, Index 440-002 and the Plans.

**440-4.6 Underdrain Cleanout Structures:** Construct underdrain cleanout structures of in-line wye fittings and stub for access where called for in the Plans.

**440-4.7 Underdrain Outlet Pipe:** Use non-perforated pipe. Construct underdrain bends in accordance with Standard Plans, Index 440-002.

ARTICLE 440-7 is deleted and the following substituted:

### 440-7 Method of Measurement.

The quantities to be paid for will be the length, in feet, of underdrain, which includes underdrain cleanout structures, measured in place, along the centerline and

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UNDERWAY

gradient of the underdrain, completed and accepted. The quantities to be paid for will be the length, in feet, of outlet pipe measured in place, along the centerline and gradient of the outlet pipe, completed and accepted. The quantity of underdrain inspection boxes to be paid for will be the number completed and accepted.

No separate measurement or payment will be made under this Section for underdrains associated with box culverts or the Standard Plans, Index 400-289.