SECTION 306 - UNTREATED PERMEABLE BASE COURSE

306.01 Description. This section describes furnishing and placing untreated permeable base on a prepared surface.

306.02 Materials.

Coarse Aggregate 703.04(A)
Filler 703.04(B)
Water 712.01

306.03 Construction.

(A) Equipment. Use static steel power rollers weighing not less than 10 tons, with compression on rear wheels of not less than 325 pounds per inch of tire width.

Use long-bristle brooms.

(B) Untreated Permeable Base Course Edge Preparation. Before placing untreated permeable base, construct adjacent embankment areas to finished surface elevation. Construct embankment in accordance with Subsection 203.03(C) - Embankment Construction. Provide form or choker to retain untreated permeable base material by cutting embankment material as nearly vertical as possible. Position toe of cut at exterior bottom limit of untreated permeable base material. Dispose of cut embankment material in accordance with Subsection 201.03(F) - Removal and Disposal of Material.

(C) Hauling and Placing. Haul, deposit, and spread untreated permeable base on a prepared surface in a manner that minimizes rutting, uneven compaction, and segregation. Should segregation occur, remove segregated materials and replace with material conforming to the contract documents, at no increase in contract price or contract time.

Before depositing coarse aggregate, place permeable separator on subgrade or subbase in accordance with Section 313 - Permeable Separator.

When required compacted thickness is 9 inches or less, place coarse aggregate in one lift. When required compacted thickness is more than 9 inches, construct in two or more lifts of approximately equal thickness.
Construction equipment will not be allowed to make sudden stops, starts, or turns on coarse aggregate. Spread coarse aggregate using loader or grader. Place coarse aggregate on permeable separator with at least 12 inches of material between equipment tires or tracks and permeable separator. When required thickness is less than 12 inches, limit size and weight of construction vehicles so that rutting in coarse aggregate is not greater than 3 inches deep. Only placement, spreading, and smooth drum, non-vibratory compaction equipment will be allowed on first lift above permeable separator.

(D) **Shaping and Compacting.** Immediately after spreading coarse aggregate, shape and compact each lift across full width using power roller. Roll in direction parallel to centerline of road. For areas inaccessible to roller, compact using tampers or compactors.

For each lift, roll area to be compacted, without interruption, a minimum of 8 complete coverage passes.

When thoroughly compacted, untreated permeable base course shall conform to shape and dimension indicated in the contract documents. Limit surface deviations of finished areas to not more than 1/2 inch above or below theoretical grade.

After rolling final lift, spread filler in a thin layer, not exceeding 30 pounds of filler per square yard of coarse aggregate surface area. Filler shall be sufficiently dry to choke surface voids without caking or bridging. Sprinkle surface with water and roll with two complete coverage passes. Scatter excess filler by light brooming.

Apply primer on filler surface in accordance with Section 420 – Primer for Untreated Permeable Base Course within 4 hours after roller compaction.

Use sufficient filler and water to keep edges of untreated permeable base course consolidated and compacted.

(E) **Protection of Untreated Permeable Base Course.** Keep traffic off untreated permeable base course, except for construction equipment directly connected with primer operation.

Prevent foreign-material contamination that would reduce free draining properties of untreated permeable base course. If contaminant or filler, or both settle below surface voids, remove and reconstruct full depth of untreated permeable base course at no increase in contract price or contract time.
306.04 Measurement. Untreated permeable base course will be paid on a lump sum basis. Measurement for payment will not apply.

306.05 Payment. The Engineer will pay for the accepted untreated permeable base course on a contract lump sum basis. Payment will be full compensation for the work prescribed in this section and the contract documents.

The Engineer will pay for the following pay item when included in the proposal schedule:

<table>
<thead>
<tr>
<th>Pay Item</th>
<th>Pay Unit</th>
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<tbody>
<tr>
<td>Untreated Permeable Base Course</td>
<td>Lump Sum</td>
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The Engineer will not pay for permeable separator, filler, and primer for untreated permeable base course separately and will consider the cost for those items as included in the contract price for the untreated permeable base course contract pay item. The cost is for the work prescribed in this section, Section 313 - Permeable Separator, Section 420 - Primer for Untreated Permeable Base Course, and the contract documents.

END OF SECTION 306