

SECTION 306 - UNTREATED PERMEABLE BASE COURSE

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4 **306.01 Description.** This section describes furnishing and placing untreated
5 permeable base on a prepared surface.

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7 **306.02 Materials.**

8
9 Coarse Aggregate 703.04(A)

10
11 Filler 703.04(B)

12
13 Water 712.01

14
15 **306.03 Construction.**

16
17 **(A) Equipment.** Use static steel power rollers weighing not less than 10
18 tons, with compression on rear wheels of not less than 325 pounds per inch
19 of tire width.

20
21 Use long-bristle brooms.

22
23 **(B) Untreated Permeable Base Course Edge Preparation.** Before
24 placing untreated permeable base, construct adjacent embankment areas to
25 finished surface elevation. Construct embankment in accordance with
26 Subsection 203.03(C) - Embankment Construction. Provide form or choker
27 to retain untreated permeable base material by cutting embankment material
28 as nearly vertical as possible. Position toe of cut at exterior bottom limit of
29 untreated permeable base material. Dispose of cut embankment material in
30 accordance with Subsection 201.03(F) - Removal and Disposal of Material.

31
32 **(C) Hauling and Placing.** Haul, deposit, and spread untreated permeable
33 base on a prepared surface in a manner that minimizes rutting, uneven
34 compaction, and segregation. Should segregation occur, remove segregated
35 materials and replace with material conforming to the contract documents, at
36 no increase in contract price or contract time.

37
38 Before depositing coarse aggregate, place permeable separator on
39 subgrade or subbase in accordance with Section 313 - Permeable Separator.

40
41 When required compacted thickness is 9 inches or less, place coarse
42 aggregate in one lift. When required compacted thickness is more than 9
43 inches, construct in two or more lifts of approximately equal thickness.
44
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306.03

45 Construction equipment will not be allowed to make sudden stops,
46 starts, or turns on coarse aggregate. Spread coarse aggregate using loader
47 or grader. Place coarse aggregate on permeable separator with at least 12
48 inches of material between equipment tires or tracks and permeable
49 separator. When required thickness is less than 12 inches, limit size and
50 weight of construction vehicles so that rutting in coarse aggregate is not
51 greater than 3 inches deep. Only placement, spreading, and smooth drum,
52 non-vibratory compaction equipment will be allowed on first lift above
53 permeable separator.

54
55 **(D) Shaping and Compacting.** Immediately after spreading coarse
56 aggregate, shape and compact each lift across full width using power roller.
57 Roll in direction parallel to centerline of road. For areas inaccessible to roller,
58 compact using tampers or compactors.

59
60 For each lift, roll area to be compacted, without interruption, a
61 minimum of 8 complete coverage passes.

62
63 When thoroughly compacted, untreated permeable base course shall
64 conform to shape and dimension indicated in the contract documents. Limit
65 surface deviations of finished areas to not more than 1/2 inch above or below
66 theoretical grade.

67
68 After rolling final lift, spread filler in a thin layer, not exceeding 30
69 pounds of filler per square yard of coarse aggregate surface area. Filler shall
70 be sufficiently dry to choke surface voids without caking or bridging. Sprinkle
71 surface with water and roll with two complete coverage passes. Scatter
72 excess filler by light brooming.

73
74 Apply primer on filler surface in accordance with Section 420 – Primer
75 for Untreated Permeable Base Course within 4 hours after roller compaction.

76
77 Use sufficient filler and water to keep edges of untreated permeable
78 base course consolidated and compacted.

79
80 **(E) Protection of Untreated Permeable Base Course.** Keep traffic off
81 untreated permeable base course, except for construction equipment directly
82 connected with primer operation.

83
84 Prevent foreign-material contamination that would reduce free draining
85 properties of untreated permeable base course. If contaminant or filler, or
86 both settle below surface voids, remove and reconstruct full depth of
87 untreated permeable base course at no increase in contract price or contract
88 time.

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90 **306.04 Measurement.** Untreated permeable base course will be paid on a lump
91 sum basis. Measurement for payment will not apply.

92
93 **306.05 Payment.** The Engineer will pay for the accepted untreated permeable
94 base course on a contract lump sum basis. Payment will be full compensation for
95 the work prescribed in this section and the contract documents.

96
97 The Engineer will pay for the following pay item when included in the proposal
98 schedule:

99

Pay Item	Pay Unit
Untreated Permeable Base Course	Lump Sum

100
101
102
103
104 The Engineer will not pay for permeable separator, filler, and primer for
105 untreated permeable base course separately and will consider the cost for those
106 items as included in the contract price for the untreated permeable base course
107 contract pay item. The cost is for the work prescribed in this section, Section 313 -
108 Permeable Separator, Section 420 - Primer for Untreated Permeable Base Course,
109 and the contract documents.

110
111
112 **END OF SECTION 306**