
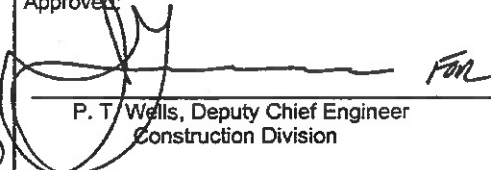


To: SUPERSEDED ^{BY} <i>ET 98-041</i> <i>EFFECTIVE 1/14/99</i>		New York State Department of Transportation ENGINEERING INSTRUCTION	EI 98-021
Title: ITEM 18403.1002 - ASPHALT TREATED PERMEABLE BASE COURSE			
Distribution: <input type="checkbox"/> Manufacturers (18) <input checked="" type="checkbox"/> Main Office (30) <input type="checkbox"/> Local Govt. (31) <input checked="" type="checkbox"/> Regions/Agencies (32)	<input type="checkbox"/> Surveyors (33) <input checked="" type="checkbox"/> Consultants (34) <input checked="" type="checkbox"/> Contractors/AGC (39) <input type="checkbox"/> ()	Approved:  P. T. Wells, Deputy Chief Engineer Construction Division	<i>6-5-98</i> Date

This Engineering Instruction partially supersedes EI 93-24 (see discontinued item numbers shown below).

EFFECTIVE DATE. This instruction is effective on all Department contracts let on or after October 22, 1998.

PURPOSE. This instruction transmits a revised specification for asphalt treated permeable base courses. In the revised specification, Quantity Adjustment Factors (QAFs) are used in the Method of Measurement. This change is consistent with other hot mix asphalt items. Information regarding QAFs can be found in Section 402 - Quality Control Asphalt Concrete - General. The most recent version of Section 402 was implemented by EI 97-010.

DISAPPROVED SPECIFICATIONS.

- Item 18403.10 M - Asphalt Treated Permeable Base Course
- Item 18403.10 - Asphalt Treated Permeable Base Course
- Item 18403.1001 M - Asphalt Treated Permeable Base Course
- Item 18403.1001 - Asphalt Treated Permeable Base Course

NEW SPECIFICATIONS.

- Item 18403.1002 M - Asphalt Treated Permeable Base Course
- Item 18403.1002 - Asphalt Treated Permeable Base Course

IMPLEMENTATION ON PREVIOUSLY LET CONTRACTS. On Department contracts let before October 22, 1998, that contain Item 18403.1001 M, 18403.1001, 18403.10 M, or 18403.10, the Contractor may elect to substitute Item 18403.1002 M or 18403.1002, before production of the asphalt permeable base begins. A copy of this Instruction shall be made part of the project records where this change is implemented, in accordance with the Department's Contract Administration Manual (CAM) Section 104-03 I.4. No order-on-contract is required. No change in the unit bid price will be allowed.

COST IMPACT. No change in the bid price for asphalt treated permeable base courses is expected.

CONTACT PERSON. Direct questions regarding this EI to Gary Frederick or Russell Thielke of the Materials Bureau's Field Engineering II Section at (518) 457-4582 or Jodi Riano of the Construction Division at (518) 457-4412.

18403.1002 ASPHALT-TREATED PERMEABLE BASE COURSE

The requirements of Section 402, Hot Mix Asphalt Concrete Pavement, shall apply except as modified below:

DESCRIPTION

This work shall consist of constructing a hot mix asphalt-treated permeable base course on a prepared base in accordance with these specifications and in reasonably close conformity with the required lines, grades, thickness and typical sections shown on the plans or established by the engineer.

MATERIALS

The Details of §402-2, shall apply except that the mix composition shall meet the requirements outlined in the following table, Mix Composition:

MIX COMPOSITION

Sieve Size	General Limits % Passing	Job Mix Tolerance %
2"	100	---
1½"	95 - 100	---
1"	80 - 95	± 6
½"	30 - 60	± 6
¼"	10 - 25	± 6
⅛"	3 - 15	± 6
No. 200	0 - 4	± 2
Asphalt ¹ Content, %	2.0 - 4.0	±0.4
Plant Mixing Temperature, °F		200 - 275

Note:

1. The asphalt cement grade and number shall meet the requirements for Base Mixture outlined in Table 401-1, Composition of Bituminous Plant Mixtures.

CONSTRUCTION DETAILS

The details of §402-3 shall apply except as modified below:

The hot mix asphalt treated permeable base course shall be placed on a prepared surface having a minimum surface temperature of 40°F. The permeable base course mixture shall be compacted between the temperatures of 140°F and 225°F with a dual steel wheel roller having a minimum nominal weight of 8 tons. The permeable base course shall be compacted by applying two roller passes operating in the static mode, unless otherwise directed by the Engineer-in-Charge. Additional passes will be allowed to eliminate any surface irregularities, ridges or creases. Caution shall be taken to prevent contamination and/or damage during placement and compaction. Areas found contaminated and/or damaged shall be removed and replaced at no cost to the Department.

After compaction, the Contractor shall protect the surface from any damage or debris that will affect the

18403.1002 ASPHALT-TREATED PERMEABLE BASE COURSE

permeability of the mixture. The Contractor is placed on notice that this material may be susceptible to damage from traffic placed directly on the permeable base course. Damage may consist of rutting, raveling, shoving, contamination by dirt and debris, and other deterioration of the compacted base. The type and method of surface protection shall be to the satisfaction of the Engineer-in-Charge. The Contractor shall be responsible for the repair of damage caused by the placement of traffic or construction vehicles on the compacted permeable base at the option of the Contractor, at no cost to the State. The Engineer-in-Charge shall be the sole judge of the extent of damage that is unacceptable.

METHOD OF MEASUREMENT

The provisions of §402-4, Method of Measurement, shall apply.

BASIS OF PAYMENT

The Provisions of §402-5, Basis of Payment, shall apply.

Payment will be made under:

<u>Item Number</u>	<u>Item</u>	<u>Pay Unit</u>
18403.1002	Asphalt-Treated Permeable Base Course	Ton

18403.1002 M ASPHALT-TREATED PERMEABLE BASE COURSE

The requirements of Section 402, Hot Mix Asphalt Concrete Pavement, shall apply except as modified below:

DESCRIPTION

This work shall consist of constructing a hot mix asphalt-treated permeable base course on a prepared base in accordance with these specifications and in reasonably close conformity with the required lines, grades, thickness and typical sections shown on the plans or established by the engineer.

MATERIALS

The Details of §402-2, shall apply except that the mix composition shall meet the requirements outlined in the following table, Mix Composition:

MIX COMPOSITION

Sieve Size	General Limits % Passing	Job Mix Tolerance %
50.0 mm	100	---
37.5 mm	95 - 100	---
25.0 mm	80 - 95	± 6
12.5 mm	30 - 60	± 6
6.3 mm	10 - 25	± 6
3.2 mm	3 - 15	± 6
75 µm	0 - 4	± 2
Asphalt ¹ Content, %	2.0 - 4.0	± 0.4
Plant Mixing Temperature, °C		95 - 135

Note:

1. The asphalt cement grade and number shall meet the requirements for Base Mixture outlined in Table 401-1, Composition of Bituminous Plant Mixtures.

CONSTRUCTION DETAILS

The details of §402-3 shall apply except as modified below:

The hot mix asphalt treated permeable base course shall be placed on a prepared surface having a minimum surface temperature of 5°C. The permeable base course mixture shall be compacted between the temperatures of 60°C and 107°C with a dual steel wheel roller having a minimum nominal weight of 7 metric tons. The permeable base course shall be compacted by applying two roller passes operating in the static mode, unless otherwise directed by the Engineer-in-Charge. Additional passes will be allowed to eliminate any surface irregularities, ridges or creases. Caution shall be taken to prevent contamination and/or damage during placement and compaction. Areas found contaminated and/or damaged shall be removed and replaced at no cost to the Department.

After compaction, the Contractor shall protect the surface from any damage or debris that will affect the permeability of the mixture. The Contractor is placed on notice that this material may be susceptible to

18403.1002 M ASPHALT-TREATED PERMEABLE BASE COURSE

damage from traffic placed directly on the permeable base course. Damage may consist of rutting, raveling, shoving, contamination by dirt and debris, and other deterioration of the compacted base. The type and method of surface protection shall be to the satisfaction of the Engineer-in-Charge. The Contractor shall be responsible for the repair of damage caused by the placement of traffic or construction vehicles on the compacted permeable base at the option of the Contractor, at no cost to the State. The Engineer-in-Charge shall be the sole judge of the extent of damage that is unacceptable.

METHOD OF MEASUREMENT

The provisions of §402-4, Method of Measurement, shall apply.

BASIS OF PAYMENT

The Provisions of §402-5, Basis of Payment, shall apply.

Payment will be made under:

<u>Item Number</u>	<u>Item</u>	<u>Pay Unit</u>
18403.1002 M	Asphalt-Treated Permeable Base Course	Metric Ton