



To:		New York State Department of Transportation ENGINEERING BULLETIN	EB 02-021
<i>Expires one year after issue unless replaced sooner</i>			
Title: DESIGN GUIDANCE FOR PROJECTS WITH HOT MIX ASPHALT ITEMS			
Distribution: <input checked="" type="checkbox"/> Manufacturers (18) <input type="checkbox"/> Surveyors (33) <input checked="" type="checkbox"/> Main Office (30) <input checked="" type="checkbox"/> Consultants (34) <input checked="" type="checkbox"/> Local Govt. (31) <input checked="" type="checkbox"/> Contractors (39) <input checked="" type="checkbox"/> Regions/Agencies (32) <input type="checkbox"/> _____ ()	Approved: <div style="text-align: center;">  <hr/> Daniel D'Angelo, P.E., Director, Design Quality Assurance Bureau </div> <div style="text-align: right;"> 5/9/02 <hr/> Date </div>		

ADMINISTRATIVE INFORMATION:

- This EB is effective immediately.
- This bulletin supplements and revises a portion of EI 02-001.
- No issuances are superseded with this bulletin.
- The items identified as "new pay items" reside in the Standard Specifications of January 2, 2002. These were introduced in EI 02-001.

PURPOSE: The purposes of this EB are as follows:

- It transmits the Hot Mix Asphalt (HMA) Item Number Conversion Table and the HMA Item Number Description to assist project designers, facility operators and others in identifying the proper new HMA pay items in the 2002 Standard Specifications for use in project proposals.
- It revises the Implementation Section of EI 02-001 to exclude the metric special specifications issued with EI 97-030 from those 403 root items that are to be disapproved.
- It provides temporary design guidance for projects requiring Sawing and Sealing items for HMA overlays and Joint and Crack Sealing items for preventative maintenance of HMA pavements until superseded by another pending official issuance.

TECHNICAL INFORMATION:

- Attached are the HMA Item Number Conversion Table and the HMA Item Number Description.
- Designers should continue to use the metric Special Specifications issued with EI 97-030 in projects for sawing and sealing joints on HMA overlays and joint and crack sealing of joints for preventative maintenance of HMA pavements.
- Refer to EI 02-001 for other interim guidance, policy, changes and other information.

IMPLEMENTATION:

- As instructed in EI 02-001, the new pay items will be effective on project proposals submitted for the letting of July 11, 2002 and later.
- New Specifications (Refer to EI 02-001).
- Disapproved Specifications. Included in EI 02-001 is the disapproval of all Special Specifications with "root" number 403. This bulletin revises those disapproved specifications to exclude the metric specifications issued with EI 97-030. The following items will remain active until they are superseded by another Official Issuance:

18403.2502 M	Sawing and Sealing Joints in Bituminous Concrete Overlays
18403.7508 M	Filling Shoulder Joints Between Portland Cement Concrete Pavement and Asphalt Concrete Shoulders Using ASTM D3405
18403.7507 M	Filling Shoulder Joints Between Portland Cement Concrete Pavement and Asphalt Shoulders Using Fiber Reinforced Asphalt Cement

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18403.7601 M	Routing, Cleaning and Sealing Cracks in Hot Mix Asphalt Pavements, ASTM D3405
18403.7602 M	Cleaning and Sealing Cracks in Hot Mix Asphalt Pavements, ASTM D3405
18403.7603 M	Routing, Cleaning and Sealing Cracks in Hot Mix Asphalt Pavements, ASTM D3405 (Payment by Liter)
18403.78 M	Selective Routing of Cracks in Hot Mix Asphalt Pavements
18403.79 M	Cleaning and Sealing Cracks with Selective Routing in Hot Mix Asphalt Pavement, ASTM D3405

TRANSMITTED MATERIALS: Hot Mix Asphalt Item Number Conversion Table and HMA Item Number Description.

BACKGROUND: Per EI 02-001, Sections 401, 402 and 403 were revised as follows:

<u>2002 Standard Specifications</u>	<u>Previous Standard Specifications</u>
401 Plant Production	401 Plant Mix Pavements
402 HMA Pavements	402 Quality Control Asphalt Concrete - General
403 HMA Pavements for Municipalities	403 Hot Mix Asphalt Concrete Pavement

Prior to the issuance of the 2002 Standard Specifications, the active Superpave specifications were those special specifications issued with ED 99-001 and other Regional special specifications. The items included the root number "403" corresponding to Section 403 - Hot Mix Asphalt Concrete Pavement. The 2002 Standard Specifications includes revisions of these Superpave specifications which now appear in Section 402. The "new" items have a root number "402" with no prefix.

Except for the Asphalt Treated Permeable Base course, True & Leveling, Shim and their associated Plant Production Quality Adjustment pay items, the first five digits of the "new item" extension remain the same as the "old item". The sixth digit is a "1" for all "new" items. The following is the description for extension numbers of the Superpave items:

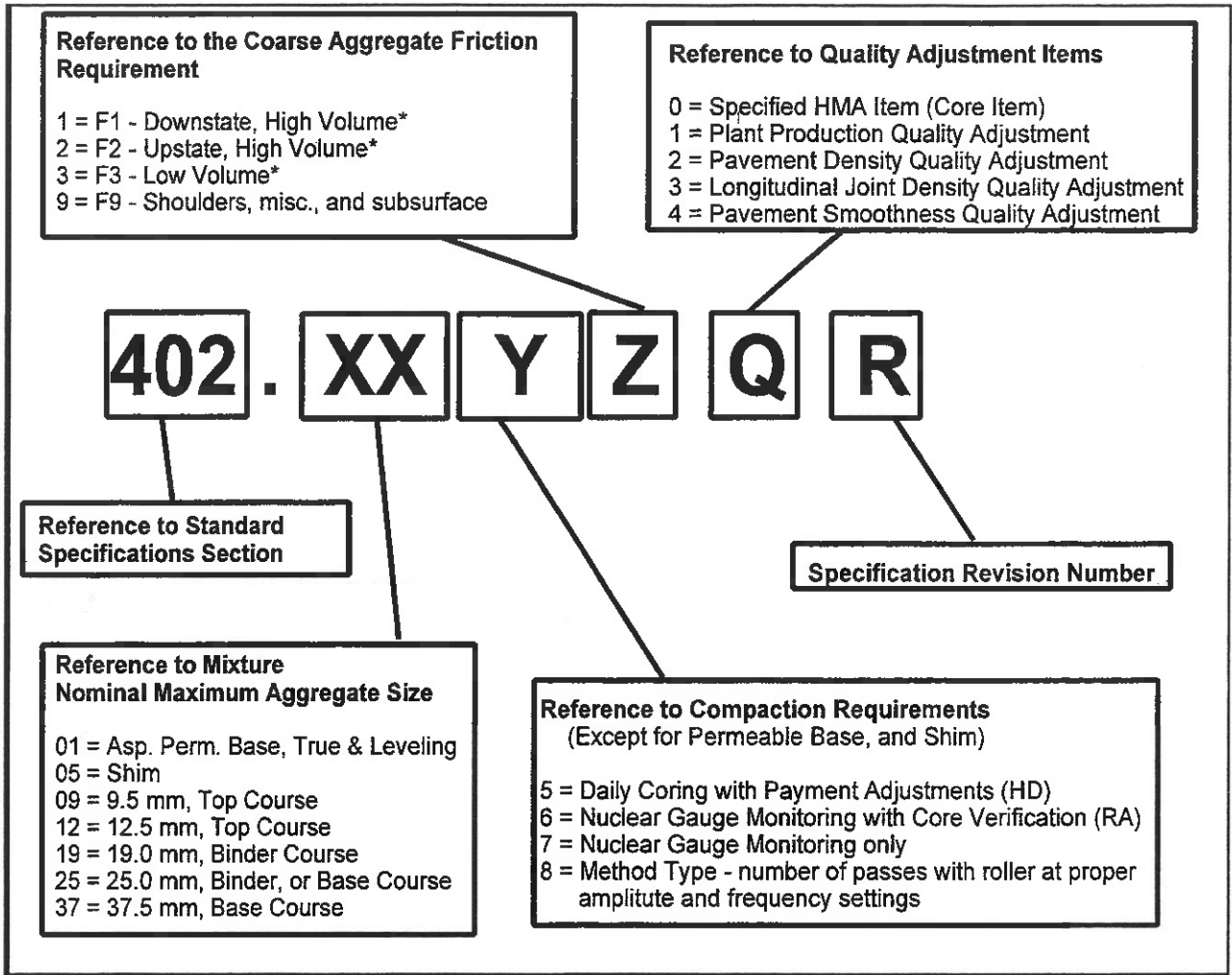
<u>Digit</u>	<u>Related Characteristic Code</u>
First & Second	Nominal Maximum Aggregate Size
Third	Method of Compaction
Fourth	Friction aggregate requirement
Fifth	Quality adjustment
Sixth	Version of specification (Note: "new" items are "1" because they are first version of Superpave items in the 402 series)

The first and second digit of the new Asphalt Treated Permeable Base course, True & Leveling, Shim and their associated Plant Production Quality Adjustment pay items are not related to the nominal maximum aggregate size but were coded with low numbers (first two digits) so they would appear earlier in the list of pay items.

All special specifications with root number "403" were disapproved with EI 02-001. As an obvious oversight, this resulted in disapproving the Sawing and Sealing Joints on HMA Overlays and Joint and Crack Sealing for preventative maintenance of HMA pavements.

CONTACT: Please contact Marc Connolly (mconnolly@gw.dot.state.ny.us) of DQAB at (518) 485-5457 if you have questions concerning the information provided in this bulletin.

HMA Item Number Description



***Traffic Volume References**

"High Volume" refers to 2 or 3 lane highways with design year two-way AADT over 8,000 or for more than three lanes with two-way AADT over 13,000.

"Low Volume" refers to highways with lower volumes for the specified number of lanes.

"Downstate" refers to the City of New York, and the surrounding counties of Dutchess Nassau, Orange, Sullivan, Putnam, Rockland, Suffolk, and Westchester.

"Upstate" refers to all other areas.

Hot Mix Asphalt Item Number Conversion Table

Asphalt Treated Permeable Base Course Items

Item Numbers		Item Description
Old	New	
18403.100902 M	402.010901 M	Type 1 F9, Asphalt-Treated Permeable Base Course
18403.100912 M	402.010911 M	Plant Production Quality Adjustment to 402.010901 M
403.120001 M	402.011901 M	Type 2 F9, Asphalt-Treated Permeable Base Course
403.120010 M	402.011911 M	Plant Production Quality Adjustment to 402.011901 M

True & Leveling Items

Item Numbers		Item Description
Old	New	
18403.218902 M	402.017901 M	True & Leveling F9, Superpave HMA, 70 Series Compaction
18403.218912 M	402.017911 M	Plant Production Quality Adjustment to 402.017901 M
	402.018901 M	True & Leveling F9, Superpave HMA, 80 Series Compaction
	402.018911 M	Plant Production Quality Adjustment to 402.018901 M

Shim Items

Item Numbers		Item Description
Old	New	
403.150001 M	402.058901 M	Shim Course F9, Hot Mix Asphalt
403.150010 M	402.058911 M	Plant Production Quality Adjustment to 402.058901 M

Shoulder Surface Course Items

Item Numbers		Item Description
Old	New	
18403.098902 M	402.098901 M	9.5 mm F9 Superpave HMA, Shoulder Course, 80 Series Compaction
18403.098912 M	402.098911 M	Plant Production Quality Adjustment to 402.098901 M
18403.128902 M	402.128901 M	12.5 mm F9 Superpave HMA, Shoulder Course, 80 Series Compaction
18403.128912 M	402.128911 M	Plant Production Quality Adjustment to 402.128901 M

9.5 mm Mainline Surface Course Items

Item Numbers		Item Description
Old	New	
18403.095102 M	402.095101 M	9.5 mm F1 Superpave HMA, 50 Series Compaction
18403.095112 M	402.095111 M	Plant Production Quality Adjustment to 402.095101 M
18403.095122 M	402.095121 M	Pavement Density Quality Adjustment to 402.095101 M
18403.095202 M	402.095201 M	9.5 mm F2 Superpave HMA, 50 Series Compaction
18403.095212 M	402.095211 M	Plant Production Quality Adjustment to 402.095201 M
18403.095222 M	402.095221 M	Pavement Density Quality Adjustment to 402.095201 M
18403.096102 M	402.096101 M	9.5 mm F1 Superpave HMA, 60 Series Compaction
18403.096112 M	402.096111 M	Plant Production Quality Adjustment to 402.096101 M
18403.096202 M	402.096201 M	9.5 mm F2 Superpave HMA, 60 Series Compaction
18403.096212 M	402.096211 M	Plant Production Quality Adjustment to 402.096201 M
18403.096302 M	402.096301 M	9.5 mm F3 Superpave HMA, 60 Series Compaction
18403.096312 M	402.096311 M	Plant Production Quality Adjustment to 402.096301 M

Hot Mix Asphalt Item Number Conversion Table

18403.097102 M	402.097101 M	9.5 mm F1 Superpave HMA, 70 Series Compaction
18403.097112 M	402.097111 M	Plant Production Quality Adjustment to 402.097101 M
18403.097202 M	402.097201 M	9.5 mm F2 Superpave HMA, 70 Series Compaction
18403.097212 M	402.097211 M	Plant Production Quality Adjustment to 402.097201 M
18403.097302 M	402.097301 M	9.5 mm F3 Superpave HMA, 70 Series Compaction
18403.097312 M	402.097311 M	Plant Production Quality Adjustment to 402.097301 M
06403.957102 M	402.098101 M	9.5 mm F1 Superpave HMA, 80 Series Compaction
06403.957112 M	402.098111 M	Plant Production Quality Adjustment to 402.098101 M
06403.957202 M	402.098201 M	9.5 mm F2 Superpave HMA, 80 Series Compaction
06403.957212 M	402.098211 M	Plant Production Quality Adjustment to 402.098201 M
06403.957302 M	402.098301 M	9.5 mm F3 Superpave HMA, 80 Series Compaction
06403.957312 M	402.098311 M	Plant Production Quality Adjustment to 402.098301 M

12.5 mm Mainline Surface Course Items

Item Numbers		Item Description
Old	New	
18403.125102 M	402.125101 M	12.5 mm F1 Superpave HMA, 50 Series Compaction
18403.125112 M	402.125111 M	Plant Production Quality Adjustment to 402.125101 M
18403.125122 M	402.125121 M	Pavement Density Quality Adjustment to 402.125101 M
18403.125202 M	402.125201 M	12.5 mm F2 Superpave HMA, 50 Series Compaction
18403.125212 M	402.125211 M	Plant Production Quality Adjustment to 402.125201 M
18403.125222 M	402.125221 M	Pavement Density Quality Adjustment to 402.125201 M
18403.126102 M	402.126101 M	12.5 mm F1 Superpave HMA, 60 Series Compaction
18403.126112 M	402.126111 M	Plant Production Quality Adjustment to 402.126101 M
18403.126202 M	402.126201 M	12.5 mm F2 Superpave HMA, 60 Series Compaction
18403.126212 M	402.126211 M	Plant Production Quality Adjustment to 402.126201 M
18403.126302 M	402.126301 M	12.5 mm F3 Superpave HMA, 60 Series Compaction
18403.126312 M	402.126311 M	Plant Production Quality Adjustment to 402.126301 M
18403.127102 M	402.127101 M	12.5 mm F1 Superpave HMA, 70 Series Compaction
18403.127112 M	402.127111 M	Plant Production Quality Adjustment to 402.127101 M
18403.127202 M	402.127201 M	12.5 mm F2 Superpave HMA, 70 Series Compaction
18403.127212 M	402.127211 M	Plant Production Quality Adjustment to 402.127201 M
18403.127302 M	402.127301 M	12.5 mm F3 Superpave HMA, 70 Series Compaction
18403.127312 M	402.127311 M	Plant Production Quality Adjustment to 402.127301 M
06403.127102 M	402.128101 M	12.5 mm F1 Superpave HMA, 80 Series Compaction
06403.127112 M	402.128111 M	Plant Production Quality Adjustment to 402.128101 M
06403.127202 M	402.128201 M	12.5 mm F2 Superpave HMA, 80 Series Compaction
06403.127212 M	402.128211 M	Plant Production Quality Adjustment to 402.128201 M
06403.127302 M	402.128301 M	12.5 mm F3 Superpave HMA, 80 Series Compaction
06403.127312 M	402.128311 M	Plant Production Quality Adjustment to 402.128301 M

Hot Mix Asphalt Item Number Conversion Table

19.0 mm Binder Course Items

Item Numbers		
Old	New	Item Description
04403.195902 M	402.195901 M	19 mm F9 Superpave HMA, 50 Series Compaction
04403.195912 M	402.195911 M	Plant Production Quality Adjustment to 402.195901 M
04403.195922 M	402.195921 M	Pavement Density Quality Adjustment to 402.195901 M
18403.196902 M	402.196901 M	19 mm F9 Superpave HMA, 60 Series Compaction
18403.196912 M	402.196911 M	Plant Production Quality Adjustment to 402.196901 M
18403.197902 M	402.197901 M	19 mm F9 Superpave HMA, 70 Series Compaction
18403.197912 M	402.197911 M	Plant Production Quality Adjustment to 402.197901 M
06403.197902 M	402.198901 M	19 mm F9 Superpave HMA, 80 Series Compaction
06403.197912 M	402.198911 M	Plant Production Quality Adjustment to 402.198901 M

25.0 mm Binder Course Items

Item Numbers		
Old	New	Item Description
18403.255902 M	402.255901 M	25 mm F9 Superpave HMA, 50 Series Compaction
18403.255912 M	402.255911 M	Plant Production Quality Adjustment to 402.255901 M
18403.255922 M	402.255921 M	Pavement Density Quality Adjustment to 402.255901 M
18403.256902 M	402.256901 M	25 mm F9 Superpave HMA, 60 Series Compaction
18403.256912 M	402.256911 M	Plant Production Quality Adjustment to 402.256901 M
18403.257902 M	402.257901 M	25 mm F9 Superpave HMA, 70 Series Compaction
18403.257912 M	402.257911 M	Plant Production Quality Adjustment to 402.257901 M
06403.257902 M	402.258901 M	25 mm F9 Superpave HMA, 80 Series Compaction
06403.257912 M	402.258911 M	Plant Production Quality Adjustment to 402.258901 M

37.5 mm Base Course Items

Item Numbers		
Old	New	Item Description
18403.376902 M	402.376901 M	37.5 mm F9 Superpave HMA, 60 Series Compaction
18403.376912 M	402.376911 M	Plant Production Quality Adjustment to 402.376901 M
18403.377902 M	402.377901 M	37.5 mm F9 Superpave HMA, 70 Series Compaction
18403.377912 M	402.377911 M	Plant Production Quality Adjustment to 402.377901 M
06403.377902 M	402.378901 M	37.5 mm F9 Superpave HMA, 80 Series Compaction
06403.377912 M	402.378911 M	Plant Production Quality Adjustment to 402.378901 M