New Jersey Department of Transportation
1035 Parkway Avenue, PO Box 600, Trenton, New Jersey 08625-0600

Baseline Document Change Announcement

REVISED - Materials Transfer Vehicle (MTV)

BDC03S-11

April 29, 2003

Subject: Revision to Subsections 404.07, 404.26 and 406.19 of the 2001 Standard Specifications both English and Metric units

Reference: BDC02S-11 entitled "Materials Transfer Vehicle (MTV)" dated April 16, 2003

The recently issued BDC Announcement as referenced, has been revised to clarify the intent and include revisions to Subsections 404.26 and 406.19 to address the basis of payment for HMA and Superpave HMA mixes, respectively.

For the benefit of those who may have obtained a copy of the referenced BDC, the changes have been underlined (deletions are not shown). Revisions to Subsections 404.26 and 406.19 are new in this BDC announcement. Since the revisions are minor in nature, the implementation plan in the Instructions to Designers has been kept as is.

We apologize for the inconvenience this may have caused to the readers.

The BDC announcement BDC02S-11 dated April 16, 2003 is hereby superseded.

The revisions are incorporated into the Standard Specifications and Standard Inputs via Standard Inputs SI2001E1 and SI2001M1 dated April 29, 2003.

The changes to SI2001E1 are as follows:

404.07 Materials Transfer Vehicle (MTV)
THE ENTIRE SUBSECTION IS CHANGED TO:

The MTV shall independently deliver mixtures from the hauling equipment to the paving equipment. A paver hopper insert with a minimum capacity of 14 tons shall be installed in the hopper of conventional paving equipment when an MTV is used.

As a minimum, the MTV shall have a high capacity truck unloading system which will receive mixtures from the hauling equipment; a storage system in the MTV with a minimum capacity of 15 tons of mixture; and a discharge conveyor, with the ability to swivel <u>to either side</u>, to deliver the mixture to the paving spreader while allowing the MTV to operate from an adjacent lane. In addition, the paving operation must contain a remixing system to continuously blend the mixture prior to placement. The remixing may be done by the MTV or in the paver hopper.

Use of MTV may not be necessary on all projects. Refer to the Special Provisions to determine if its use is either mandatory or optional. If an MTV is to be used on the Project the Contractor shall further investigate the possible movement of the fully or partially loaded MTV on the Project. If there are any structures on the Project that the fully or partially loaded MTV will traverse, the Contractor shall request an Overweight Permit Check from the Structural Evaluation Unit. Such request, including the axle configuration and weights, and the Project limits, shall

be made in writing in a fax to (609) 530-4444 and operations shall not be started until this permission is received from the Department and one copy forwarded to the Resident Engineer.

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SURFACE AND INTERMEDIATE COURSES

THE DESIGNER SHALL SPECIFY THE USE OF A MATERIALS TRANSFER VEHICLE (MTV) FOR SURFACE AND INTERMEDIATE COURSES WHEN THE FOLLOWING CONDITIONS ARE SATISFIED:

THE LENGTH OF CONTINUOUS THROUGH TRAVEL LANE CONSTRUCTION IS MORE THAN 5,000 FEET.
THERE ARE NO OVERHEAD OBSTRUCTIONS WITHIN 12 FEET ABOVE THE FINISH GRADE OF PAVEMENT SURFACE THAT WOULD PREVENT PASSAGE OF THE MTV.
THE LANE WIDTHS ARE GREATER THAN 11 FEET.
THERE ARE NO PRECLUDED STRUCTURES OR THERE IS A MINIMUM OF 5,000 FEET BETWEEN PRECLUDED STRUCTURES.

BASE COURSE

WHEN THE USE OF AN MTV HAS BEEN SPECIFIED FOR THE SURFACE AND INTERMEDIATE COURSES, THE DESIGNER SHALL SPECIFY THE USE OF A MTV FOR THE BASE COURSE WHEN THE FOLLOWING CONDITIONS ARE SATISFIED:

STAGING OF BASE COURSE CONSTRUCTION WILL NOT PRECLUDE THE PAVING OF CONTINUOUS LENGTHS OF MORE THAN 2,500 FEET OF BASE.
THE NOMINAL MAXIMUM AGGREGATE SIZE OF THE BASE COURSE IS EITHER 25 MM OR 37.5 MM.
THE SUBGRADE/BASE CONDITIONS WILL BE ADEQUATE TO SUPPORT THE LOADED MTV (APPROXIMATELY 122,000 POUNDS IN A TWO AXLE CONFIGURATION).

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SELECT ONE OF THE FOLLOWING

A materials transfer vehicle (MTV) is required for the construction of the pavement surface course in the Traveled Way.

*******OR*******

A materials transfer vehicle (MTV) is required for the construction of the pavement surface course and intermediate course in the Traveled Way.

*******OR*******

A materials transfer vehicle (MTV) is required for the construction of all pavement courses in the Traveled Way.

*******OR*******

A materials transfer vehicle (MTV) is optional for the construction of the pavement.

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404.26 Basis of Payment
THE LAST PARAGRAPH IS CHANGED TO:

Separate payment will not be made for MTV, test strips, and quality control for compaction, including comparison cores, and nuclear density testing. All costs thereof shall be included in the prices bid for Hot Mix Asphalt Surface Course ___, Hot Mix Asphalt Intermediate Course ___, and Hot Mix Asphalt Base Course ___.

406.19 Basis of Payment
THE LAST PARAGRAPH IS CHANGED TO:

Separate payment will not be made for MTV, test strips, and quality control for compaction, including comparison cores, and nuclear density testing. All costs thereof shall be included in the prices bid for Superpave Hot Mix Asphalt __ __ __ Surface Course, Superpave Hot Mix Asphalt __ __ __ Intermediate Course, and Superpave Hot Mix Asphalt __ __ __ Base Course.

The changes to SI2001M1 are as follows:

404.07 Materials Transfer Vehicle (MTV)
THE ENTIRE SUBSECTION IS CHANGED TO:

The MTV shall independently deliver mixtures from the hauling equipment to the paving equipment. A paver hopper insert with a minimum capacity of 12.7 megagrams shall be installed in the hopper of conventional paving equipment when an MTV is used.

As a minimum, the MTV shall have a high capacity truck unloading system which will receive mixtures from the hauling equipment; a storage system in the MTV with a minimum capacity of 13.6 megagrams of mixture; and a discharge conveyor, with the ability to swivel to either side, to deliver the mixture to the paving spreader while allowing the MTV to operate from an adjacent lane. In addition, the paving operation must contain a remixing system to continuously blend the mixture prior to placement. The remixing may be done by the MTV or in the paver hopper.

Use of MTV may not be necessary on all projects. Refer to the Special Provisions to determine if its use is either mandatory or optional. If an MTV is to be used on the Project the Contractor shall further investigate the possible movement of the fully or partially loaded MTV on the Project. If there are any structures on the Project that the fully or partially loaded MTV will traverse, the Contractor shall request an Overweight Permit Check from the Structural Evaluation Unit. Such request, including the axle configuration and weights, and the Project limits, shall be made in writing in a fax to (609) 530-4444 and operations shall not be started until this permission is received from the Department and one copy forwarded to the Resident Engineer.

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SURFACE AND INTERMEDIATE COURSES

THE DESIGNER SHALL SPECIFY THE USE OF A MATERIALS TRANSFER VEHICLE (MTV) FOR SURFACE AND INTERMEDIATE COURSES WHEN THE FOLLOWING CONDITIONS ARE SATISFIED:

THE LENGTH OF CONTINUOUS THROUGH TRAVEL LANE CONSTRUCTION IS MORE THAN 1525 METERS.
THERE ARE NO OVERHEAD OBSTRUCTIONS WITHIN 3.7 METERS ABOVE THE FINISH GRADE OF PAVEMENT SURFACE THAT WOULD PREVENT PASSAGE OF THE MTV.
THE LANE WIDTHS ARE GREATER THAN 3.5 METERS.
THERE ARE NO PRECLUDED STRUCTURES OR THERE IS A MINIMUM OF 1525 METERS BETWEEN PRECLUDED STRUCTURES.

BASE COURSE

WHEN THE USE OF AN MTV HAS BEEN SPECIFIED FOR THE SURFACE AND INTERMEDIATE COURSES, THE DESIGNER SHALL SPECIFY THE USE OF A MTV FOR THE BASE COURSE WHEN THE FOLLOWING CONDITIONS ARE SATISFIED:

STAGING OF BASE COURSE CONSTRUCTION WILL NOT PRECLUDE THE PAVING OF CONTINUOUS LENGTHS OF MORE THAN 760 METERS OF BASE.
THE NOMINAL MAXIMUM AGGREGATE SIZE OF THE BASE COURSE IS EITHER 25 MM OR 37.5 MM.
THE SUBGRADE/BASE CONDITIONS WILL BE ADEQUATE TO SUPPORT THE LOADED MTV (APPROXIMATELY 55.3 MEGAGRAMS IN A TWO AXLE CONFIGURATION).

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SELECT ONE OF THE FOLLOWING

A materials transfer vehicle (MTV) is required for the construction of the pavement surface course in the Traveled Way.

*******OR*******

A materials transfer vehicle (MTV) is required for the construction of the pavement surface course and intermediate course in the Traveled Way.

*******OR*******

A materials transfer vehicle (MTV) is required for the construction of all pavement courses in the Traveled Way.

*******OR*******

A materials transfer vehicle (MTV) is optional for the construction of the pavement.

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404.26 Basis of Payment
THE LAST PARAGRAPH IS CHANGED TO:

Separate payment will not be made for MTV, test strips, and quality control for compaction, including comparison cores, and nuclear density testing. All costs thereof shall be included in the prices bid for Hot Mix Asphalt Surface Course ___, Hot Mix Asphalt Intermediate Course ___, and Hot Mix Asphalt Base Course ___.

406.19 Basis of Payment
THE LAST PARAGRAPH IS CHANGED TO:

Separate payment will not be made for MTV, test strips, and quality control for compaction, including comparison cores, and nuclear density testing. All costs thereof shall be included in the prices bid for Superpave Hot Mix Asphalt __ __ __ Surface Course, Superpave Hot Mix Asphalt __ __ __ Intermediate Course, and Superpave Hot Mix Asphalt __ __ __ Base Course.

Instructions to Designers

The implementation is not changed from BDC02S-11.

This revision shall be for all projects requiring construction of HMA or Superpave HMA pavement and are to be advertised after May 1st, 2003
This revision has been incorporated in SI2001E1 and SI2001M1 dated April 29, 2003 and will be included in future updates.

Distribution and Announcement Access Information

This announcement is being distributed electronically to our in-house staff and various public agencies based on our Construction Details BDC distribution list maintained by the Engineering Documents Unit.

Internet access to this BDC Announcement can be downloaded and viewed from the following New Jersey Department of Transportation Web Page:

http://www.state.nj.us/transportation/cpm/BaselineDocuments/bdcdownloadd.htm.

Hard copies of this document can be acquired on a limited basis by contacting:

Engineering Documents Unit
E&O Building, 1st Floor
1035 Parkway Avenue, PO Box 600
Trenton, New Jersey 08625-0600
Phone: (609) 530-5587
FAX: (609) 530-6626

Recommended By:

Brian Strizki
Director,
Quality Management Services

Approved By:

Art Silber
Assistant Commissioner,
Capital Program Management

BJS:KS: GL
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