SPECIAL PROVISIONS
FOR
STATE AID PROJECTS

FOR THE ______________________________ OF
________________________________________

IN THE _____________ OF _______________

COUNTY OF ______________________________

AUTHORIZATION OF CONTRACT
-----------------------------------------------
The contract for this project is authorized by the provisions of local public contracts law, NJSA 40A: 11-1 et seq.

SPECIFICATIONS TO BE USED
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The 2007 Standard Specifications for Road and Bridge Construction, of the New Jersey Department of Transportation and as amended herein, shall govern the construction of this project.

WAGE RATES
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The contractor shall pay the minimum wage rates determined by the New Jersey Department of Labor.

State wage rates may be obtained from the New Jersey Department of Labor (Telephone: 609-292-2259) or by accessing the Department of Labor’s web site at [http://lwd.dol.state.nj.us/labor/wagehour/wagehour_index.html](http://lwd.dol.state.nj.us/labor/wagehour/wagehour_index.html). The State wage rates in effect at the time of award will be made a part of this Contract, pursuant to Chapter 150, Laws of 1963 (NJSA 34:11-56.25, et seq.).

In the event it is found that any employee of the contractor or any subcontractor covered by the contract, has been paid a rate of wages less than the minimum wage required to be paid by the contract, the contracting agency may terminate the contractor's or subcontractor's right to proceed with the work, or such part of the work, as to which there has been a failure to pay required wages and to prosecute the work to completion or otherwise. The contractor and his sureties shall be liable to the contracting agency for any excess costs occasioned thereby.

GENERAL
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All awards shall be made subject to the approval of the New Jersey Department of Transportation. No construction shall start before approval of said award by the New Jersey Department of Transportation. Prior to the start of construction the contractor must submit a Material Questionnaire (SA-11) listing all sources of materials. Any materials used on the project from a non-approved New Jersey Department of Transportation source will be considered non-participating. The contractor is also notified that the District Office, Division of Local Aid and Economic Development must be notified of the construction commencement date at least three (3) calendar days prior to the start of construction.
Award of contract and subletting will not be permitted to, materials will not be permitted from, and use of equipment will not be permitted that is owned and/or operated by, firms and individuals included in the report of suspensions, debarments and disqualifications of firms and individuals as maintained by the Department of the Treasury, General Services Administration, CN-039, Trenton NJ 08625 (609-292-5400).

Payment for a pay item in the proposal includes all the compensation that will be made for the work of that item as described in the contract documents unless the "measurement and payment" clause provides that certain work essential to that item will be paid for under another pay item.

Whenever any section, subsection, subpart or subheading is amended by such terms as changed to, deleted or added it is construed to mean that it amends that section, subsection, subpart or subheading of the 20047 Standard Specifications unless otherwise noted.

Whenever reference to page number is made, it is construed to refer to the 20047 Standard Specifications unless otherwise noted.

Henceforth in this supplementary specification whenever reference to the State, Department, ME, RE or Inspector is made, it is construed to mean the particular municipality or county executing this contract.

Whenever reference to Title 27 is made, it is construed to mean Title 40.
SECTION 401 –HOT MIX ASPHALT (HMA) COURSES

ALTERNATE SUBSECTIONS 401.03.03 H, I AND J
FOR
STATE AID PROJECTS

401.03.03 H  AIR VOIDS ACCEPTANCE PLAN
THIS SUBSECTION IS REPLACED BY THE FOLLOWING:

H. Air Void Requirements.

Pavement lots are defined as approximately 15,000 square yards of pavement in Surface area. If pavement lot area is less than 5000 square yards, the Regional District Local Aid Office may waive the air voids requirements.

The RE will designate an independent testing agency (Laboratory) to perform the quality assurance sampling, testing and analysis. The Laboratory is required to be accredited by the AASHTO Accreditation Program (www.amrl.net). The Laboratory’s accreditation must include AASHTO T 166 and AASHTO T 209.

The Laboratory Technician who performs the quality assurance sampling shall be certified by the Society of Asphalt Technologists of New Jersey as an Asphalt Plant Technologist, Level 1.

The Laboratory will determine air voids from 5 (Five) 6 inch diameter cores taken from each lot in random locations within the traveled way and at least one core in each travel lane. The Laboratory will determine air voids of cores from the values for the maximum specific gravity of the mix and the bulk specific gravity of the core. The Laboratory will determine the maximum specific gravity of the mix according to NJDOT B-3 and AASHTO T 209, except that minimum sample size may be waived in order to use a 6-inch diameter core sample. The Laboratory will determine the bulk specific gravity of the compacted mixture by testing each core according to AASHTO T 166.

The Laboratory will calculate the in-place air voids of each completed lot outside the acceptable range of 2 percent air voids to 8 percent air voids.

The RE will assess a reduction in lot due to nonconformance to air voids according to the Table 401.03.03-3.

<table>
<thead>
<tr>
<th>Lot Average Air Void Value</th>
<th>Reduction Per Lot</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Five Samples)</td>
<td>(Percent of Lot)</td>
</tr>
<tr>
<td>0.0 to 1.9</td>
<td>10</td>
</tr>
<tr>
<td>2.0 to 8.0</td>
<td>0</td>
</tr>
<tr>
<td>8.1 to 9.0</td>
<td>5</td>
</tr>
<tr>
<td>9.1 to 10.0</td>
<td>15</td>
</tr>
<tr>
<td>10.1 to 12.0</td>
<td>30</td>
</tr>
<tr>
<td>Over 12.0</td>
<td>Remove &amp; Replace</td>
</tr>
</tbody>
</table>

If the average air voids for the lot is greater than 12.0 percent, remove and replace the lot. The replacement work is subject to the same requirements as the initial work.

401.03.03 I  THICKNESS REQUIREMENTS

ADD THE FOLLOWING FOR RESURFACING PROJECTS.
THIS SUBSECTION IS DELETED. IN NO INSTANCE WILL A COMPACTED AVERAGE THICKNESS OF LESS THAN 1.25 INCHES BE ACCEPTABLE.

ADD THE FOLLOWING FOR NEW CONSTRUCTION, COMPLETE RECONSTRUCTION OR WIDENINGS GREATER THAN EIGHT FEET.

THIS SUBSECTION IS REPLACED BY THE FOLLOWING:

I. Thickness Requirements.

Thickness requirements will apply when full-depth, uniform-thickness HMA pavement construction is shown.

Pavement lots are defined as approximately 15,000 square yards of pavement area. The Engineer will not include areas consisting of different HMA mixtures or thicknesses in the same lot. If thickness lot area is less than 5000 square yards, the Regional District Local Aid Office may waive the thickness requirements.

The RE will designate an independent testing agency (Laboratory) to perform the quality assurance sampling, testing and analysis. The Laboratory is required to be accredited by the AASHTO Accreditation Program (www.amrl.net). The Laboratory’s accreditation must include AASHTO T 166 and AASHTO T 209.

The Laboratory Technician who performs the quality assurance sampling shall be certified by the Society of Asphalt Technologists of New Jersey as an Asphalt Plant Technologist, Level 1.

The Laboratory will test for thickness using the full-depth cores taken for surface course air voids, evaluated according to NJDOT B-4. The Laboratory will base acceptance on total thickness and thickness of the surface course.

1. Total Thickness. The Laboratory will calculate the percent defective (PD) as the percentage of the lot that is less than the design thickness. The Department will base total thickness acceptance on the percentage of the lot estimated to fall below the specified thickness as follows:

   a. Sample Mean ($\bar{X}$) and Standard Deviation (S) of the N Test Results ($X_1, X_2, ..., X_N$).

   $$\bar{X} = \frac{X_1 + X_2 + ... + X_N}{N}$$

   $$S = \sqrt{\frac{(X_1 - \bar{X})^2 + (X_2 - \bar{X})^2 + ... + (X_N - \bar{X})^2}{N - 1}}$$

   b. Quality Index ($Q_L$).

   $$Q_L = \frac{\bar{X} - T_{des}}{S}, \text{ and } T_{des} \text{ is the design thickness.}$$

   c. Percent Defective (PD). Using NJDOT ST - Statistical Tables (NJDOT Standard Specs for Roads and Bridges 2007-NJDOT TEST METHODS) for the appropriate sample size, determine the percentage of material (PD) falling below the design thickness associated with $Q_L$ (lower limit).

   d. Reduction in Payment. The Department will determine the reduction in payment based on the quantity of the surface course multiplied by the percent reduction in payment from Table 401.03.03-5.

<table>
<thead>
<tr>
<th>Percent Defective</th>
<th>Percent Reduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 25.0</td>
<td>0</td>
</tr>
<tr>
<td>25.1 to 30.0</td>
<td>2</td>
</tr>
<tr>
<td>30.1 to 35.0</td>
<td>5</td>
</tr>
</tbody>
</table>
3.5 to 40.0 10
40.1 to 45.0 20
Over 45.0 Remove & Replace

e. **Removal and Replacement.** If the lot PD ≥ 45, remove and replace, or mill and overlay, the lot. The replacement work is subject to the same requirements as the initial work.

2. **Surface Course Thickness.** The Laboratory will evaluate the surface course solely to determine whether a remove-and-replace or an overlay condition exists, not for pay adjustment. The Laboratory will calculate the percent defective (PD) as the percentage of the lot that is less than the allowable thickness for the nominal maximum aggregate used in the surface course. The Laboratory will accept pavement lots with PD ≤ 25 and will reject pavement lots with PD > 25.

The Laboratory will base surface thickness acceptance on the percentage of the lot estimated to fall below the allowable thickness as follows:

a. **Sample Mean (X) and Standard Deviation (S) of the N Test Results (X₁, X₂,..., X_N).** Calculate using the formula as specified in 401.03.03.I.1.

b. **Quality Index (Q).**

\[ Q_L = \frac{(\bar{X} - T_{all})}{S}, \text{ where } T_{all} \text{ is the minimum allowable thickness from Table 401.03.03-6.} \]

<table>
<thead>
<tr>
<th>Table 401.03.03-6 Surface Course Thickness Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMA Mix Design Size</td>
</tr>
<tr>
<td>---------------------</td>
</tr>
<tr>
<td>4.75 MM</td>
</tr>
<tr>
<td>9.5 MM</td>
</tr>
<tr>
<td>12.5 MM</td>
</tr>
<tr>
<td>19 MM</td>
</tr>
</tbody>
</table>

c. **Percent Defective.** Using NJDOT ST - Statistical Tables (NJDOT Standard Specs for Roads and Bridges 2007-NJDOT TEST METHODS) for the appropriate sample size, determine the percentage of material (PD) falling below the allowable thickness associated with Q_L (lower limit).

d. **Removal and Replacement.** If the surface course fails to meet the acceptance requirement with a PD ≤ 25, the Department will require removal and replacement of the lot. The replacement work is subject to the same requirements as the initial work.

**REPLACE 401.03.03.J WITH THE FOLLOWING:**

J. **Ride Quality Requirements.** The Department may evaluate the HMA surface course placed in travel lanes using the International Roughness Index (IRI) according to ASTM E 1926. Other areas will be tested with a ten foot straight edge. The Department will use the measured IRI and straight edge to compute pay adjustment (PA). The PA will be negative for defective work.

The RE will designate an independent testing agency to perform the ride quality testing and analysis. The testing agency is required to comply with certification requirements according to NJDOT R-1.

The Department will calculate the Pay Adjustment (PA) as specified in Table 401.03.03-7 and will base PA on lots of 0.01 mile length for each travel lane.

1. **Smoothness Measurement.**

The testing agency will test the longitudinal profile of the HMA surface course for ride quality with a Class 1 Inertial Profiling System according to AASHTO MP 11 approved according to AASHTO PP 49.
The testing agency will test the full extent of the pavement in the direction of travel in each wheel path. The single IRI value reported for each 0.01-mile lot of pavement is the average of 3 runs.

2. Other Areas.
In addition to the above, a 10-foot straightedge shall be used for the following areas: transverse profile of the finished riding surface, longitudinal and transverse profile of shoulders and ramps, utility hardware, drainage inlets and manholes, and any other areas so designated in the Special Provisions. Any areas that have more than a 1/4-inch deviation between any two contact points of the straightedge shall be corrected by the Contractor using infrared heating to rework the material in a manner approved by the Engineer. Following correction, the area will be retested to verify compliance, each individual non-complying location will be assessed $250 negative PA.

Perform control testing during HMA placement to ensure compliance with the ride quality requirements specified in Table 401.03.03-7.

4. Preparation for IRI Testing.
Provide the necessary traffic control when the testing agency performs IRI testing. Perform required mechanical sweeping of the surface course before IRI testing. To facilitate auto triggering on laser profilers, place a single line of preformed traffic marking tape perpendicular to the roadway baseline 300 feet before the beginning of each lane to be tested.

5. Acceptance.
The Engineer will determine acceptance and make payment adjustments based on the following:

i. Pay Adjustment.

The pay equations in Table 401.03.03-7 express the pay adjustment in dollars per lot of 0.01 mile. For lots of any other length, the Engineer will scale the pay adjustment up or down in proportion to the actual length of the lot. IRI numbers are in inches per mile.

<table>
<thead>
<tr>
<th>Local Roadways with Posted Speed ≥ 45 MPH</th>
<th>IRI ≤ 100</th>
<th>PA = $0</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100 &lt; IRI ≤ 170</td>
<td>PA = (IRI − 100) × (− $1.43)</td>
</tr>
<tr>
<td></td>
<td>IRI &gt; 170</td>
<td>Remove &amp; Replace</td>
</tr>
<tr>
<td>Local Roadways with Posted Speed &lt; 45 MPH</td>
<td>IRI ≤ 120</td>
<td>PA = $0</td>
</tr>
<tr>
<td></td>
<td>120 &lt; IRI ≤ 220</td>
<td>PA = (IRI − 120) × (− $1.00)</td>
</tr>
<tr>
<td></td>
<td>IRI &gt; 220</td>
<td>Remove &amp; Replace</td>
</tr>
</tbody>
</table>

ii. Retest provision.

After testing, if the IRI exceeds the Remove and Replace value (RRV) in Table 401.03.03-7, the testing agency will retest the lot. The testing agency will average the IRI values from the initial test and the retest to determine the final result.

iii. Removal and Replacement.
If the average IRI is greater than the RRV after a retest is performed, remove and replace the lot. Any replacement work is subject to the same requirements as the initial work. If only a small percentage (less than 8 percent) of paving lots falls under the RRV, the RE may allow the Contractor to submit a plan for corrective action. If the Contractor’s plan for corrective action is not approved, the RE may require removal and replacement, or may allow the lot to remain in place and the lot will
be subject to the pay adjustment as computed in Table 401.03.03-7. If the Contractor’s plan for corrective action is approved and the lot is reworked, the testing agency will test and evaluate it as a new lot that must meet the same requirements as the initial work.

SECTION 902 – ASPHALT

902.02.03 MIX DESIGN
THE FOLLOWING IS ADDED TO THE FIRST PARAGRAPH:

UNLESS OTHERWISE APPROVED BY THE ENGINEER, ONLY ONE SOURCE OF SUPPLY FOR HOT MIX ASPHALT SURFACE COURSE MAY BE USED ON THE PROJECT.

902.02.04 SAMPLING AND TESTING

ADD THE FOLLOWING TO 902.02.04:

F. Acceptance of HMA. The Department may accept the HMA as specified in 902.02.04.A through 902.02.04.E by employing staff or an independent testing agency at the HMA plant during production. The inspector who performs the quality assurance sampling shall be certified by the Society of Asphalt Technologists of New Jersey as an Asphalt Plant Technologist, Level 2.

Alternatively, the Department may accept the HMA by Certification of Compliance according to 106.07.

Baseline Document Changes
Baseline Document Change (BDC) Announcements are notices that a Baseline Document has been modified in part or in whole. A Baseline document is defined as any official document that has gone through an initial approval process and was approved for use as intended. Thus a BDC is an alteration to or rewriting of any officially approved document. New documents are also announced with a BDC.

For additional BDC’s to the 2007 specs that are not covered in this document:

http://www.state.nj.us/transportation/eng/documents/BDC/