

**New Jersey Department of Transportation  
CORRECTIVE ACTION NOTICE**

**QUALITY MANAGEMENT SERVICES**

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CAN No. CAN031

Approved: B. Strizki

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**Bureau(s) Affected:** All Design Consultants  
All CPM Units

**Description of Problem(s):**

The Superpave Task Force is comprised of representatives from various Bureaus within the NJDOT as well as representatives from the contracting and material supplier industries. Through the efforts of this task force, a specification has been developed for incorporating asphalt mixes into projects using the Superpave mix design system. This specification has been successfully used on several pilot projects. Further, it has been refined based on task force recommendations stemming from experiences with these projects, and has been used on several additional projects as well.

The Department is now ready to move forward with Superpave implementation as a standard on specific projects meeting certain criteria. Because Design Consultants do not yet have sufficient experience in the design and selection of appropriate Superpave mixes and lift thickness, it will be necessary for personnel from the Department's Geotechnical Engineering Unit to provide the expertise necessary to make these selections.

In the meantime, the Geotechnical Engineering Unit has held training sessions for in-house personnel and consultant pavement design engineers for the purpose of introducing these individuals to the Superpave mix design system. The Department is also currently working on developing a Pavement Design Procedure Manual. One of the functions of that manual will be to assist designers in the design and selection of appropriate Superpave mixes.

### **Corrective Action Plan:**

To address this problem, procedure and project requirements (see Attachments #1 and #2) have been developed in conjunction with the Geotechnical Engineering Unit in order to implement Superpave into NJDOT projects. The first attachment, “**Interim Guidelines to Designers for Superpave Implementation**”, contains specific guidance to designers, and details the criteria to be applied for determining whether a project should be designed using Superpave, as opposed to the standard paving mixes. The second attachment, “**Pavement Design Report Requirements for Superpave Projects**”, details the additional information to be included in the Pavement Design Report, as required by Section 11 of the NJDOT Procedures Manual.

Also, criteria have been established for the required use of a Materials Transfer Vehicle (MTV) during the construction of Superpave projects. An MTV shall be specified on all projects where paving will occur on limited access roads (e.g. freeways and Interstate highways) that also meet the requirements specified in Attachment #1.

To ensure Superpave implementation, the responsibility of Designers, the Geotechnical Engineering Unit and the Bureau of Contract Administration Services shall be as follows:

Superseded

**I. Projects whose Initial Design Submission has not yet occurred.**

- The designer shall follow the “Interim Guidelines for Designers for Superpave Implementation” (Attachment #1) to determine whether Superpave mixtures shall be included in the project.
- The designer shall include the additional information in the Pavement Design Report as indicated in Attachment #2.
- The designer shall determine if the project meets the requirements for the use of an MTV based on the above. The Designer shall indicate in the transmittal letter for the DPS&E submission if the MTV specification should be included. The Project Manager shall include a copy of this letter with the PS&E submission to the Bureau of Contract Administration Services.
- Following the approval of the Pavement Design Report, the Geotechnical Engineering Unit will provide the Designer with the appropriate Superpave mix designations and thicknesses to be incorporated into the plans.
- The designer shall show the appropriate Superpave pay items on the plans as recommended by the Geotechnical Engineering Unit.
- The Bureau of Contract Administration Services will incorporate the Superpave, and MTV specifications (if appropriate) into the project by addendum.

**II. Projects whose Initial Design Submission has already occurred.**

- The Geotechnical Engineering Unit will determine if Superpave should be utilized on the project, whether the project meets the requirements for the use of an MTV, and inform the Bureau of Contract Administration Services accordingly. The Geotechnical Engineering Unit will then provide them with the appropriate Superpave mix designations upon completion of the Final Design Submission review.
- The Bureau of Contract Administration Services will incorporate the Superpave specifications and MTV specifications (if appropriate) into the projects by addendum. The addendum will include the reference to the pay items on the plans that will be changed to the appropriate Superpave pay items and include the respective proposal revisions.

This procedure will apply to all projects, including Maintenance projects and will apply to both federally funded and state funded projects.

The Pavement Design Procedure Manual for Superpave is currently under development. Once completed, Designers will be responsible for all Superpave mix designs and selection of lift thicknesses.

This procedure will serve for the interim incorporation of Superpave mixes on projects. The specifications will continue to be issued by addendum until they are incorporated into the respective subsections of the Standard Specifications. At that time, the Department will fully utilize the Superpave mix design system on all NJDOT projects.

**Implementation: *Immediately***



Superseded