



Minnesota Department of Transportation

MEMO

Office of Materials
Mailstop 645
1400 Gervais Avenue
Maplewood, MN 55109

DATE: January 31, 2006

TO: All Assistant District Engineers

Keith L Shannon

FROM: Keith Shannon, Director
Office of Materials

PHONE: 651-779-5590

SUBJECT: Bituminous Specifications for MnDOT Projects

The Bituminous Unit has updated the bituminous specification for the 2006 construction season. The updated specification is available on the Bituminous Engineering Unit web page at <http://www.mrr.dot.state.mn.us/pavement/bituminous/bituminous.asp>.

Guidelines for the use of **(2360) PLANT MIXED ASPHALT PAVEMENT Combined 2360/2350 (Gyratory/Marshall Design) Specification** are as follows:

Specification 2360 Gyratory Design

Use: All traffic levels for new construction and all traffic levels for overlays.

Mixture	Traffic Level	Traffic 20 Yr ESALs
SP	2	< 1 million
SP	3	1-3 million
SP	4	3-10 million
SP	5	10-30 million
SMA*	6	>10 million

* Consult Bituminous Office

This year's specification requires pavement smoothness evaluation by International Roughness Index (IRI) rather than Profile Index. The designer must determine, based on the Ride Guidelines, which of the three IRI equations will be used for analysis of incentive/disincentive and include it in the Special Provisions. The decision as to which equation to use is similar to that decision process which was used for selection of Table A, B, or C under Profile Index. Ride Guidelines are available on the Bituminous Engineering Unit web page.

The PG Binder Guidelines and Design Guidelines for 2360 have been updated and are available on the Bituminous Engineering Unit web page.

The purpose of sending out this memo on a yearly basis has been to assist Materials and Design personnel in the decision of mixture design type selection i.e. Marshall or Gyratory design, as we've gone through transition and changes. As you can see on the previous page, Gyratory design is now the standard for all construction types and activities. Therefore, there is no longer a need to issue this memo on a yearly basis. Future memos relating to mixture design type will be issued on an as needed basis.

If you have any questions or comments regarding these guidelines, contact John Garrity (651-779-5577), Dan Boerner (651-779-5582) or myself.

cc: D. Stehr
J. Skallman
G. Thompson
C. Turgeon
R. Wolters/J. Thomas
J. Garrity
D. Boerner
District Engineers/Metro Division Engineers
District/Division Materials Engineers
Design Engineers
Resident Engineers