ROADWAY DESIGN BULLETIN 06-12

DATE: November 27, 2006

TO: District Design Engineers, Plans Preparation Manual Holders

FROM: David C. O’Hagan, PE, State Roadway Design Engineer

COPIES: Ananth Prasad, Robert Greer, Lora Hollingsworth, Duane Brautigam, Tom Malerk

SUBJECT: Traffic Level Required for Friction Courses FC-9.5 and FC-12.5

REQUIREMENTS

The Traffic Level for Friction Courses FC-9.5 and FC-12.5 is now required to be identified on the typical sections and pay items.

The Flexible Pavement Design Manual, Section 6.5.6, is revised replacing the first paragraph on page 6.18 with the following text:

“The appropriate Traffic Level is to be shown for structural friction courses FC-9.5 and FC-12.5. For Traffic Levels D and E, PG 76-22 should also be called for in the friction course. Note that as with SP-9.5, FC-9.5 should not to be used for Traffic Levels D and E.”

Additionally, the following Plans Preparation Manual (PPM) exhibits are revised to indicate the Traffic Level for FC-9.5 and FC-12.5.

Volume II, Chapter 6, Exhibits TYP-1, TYP-3 thru TYP-8A

Attached is PPM Exhibit TYP-6 revised to show an example of the required change that must be reflected in plans. Revisions to the remaining PPM exhibits identified above will be published with the January 2007 PPM Update.
BACKGROUND

New asphalt specifications 234, 334, and 337 are being implemented on all jobs beginning with the July 2007 letting. These changes will allow a new contractor Mixture Acceptance Option for Traffic Level A and B mixes. This has the potential to lower costs and allow more competition.

IMPLEMENTATION

Plans must be updated beginning with the July 2007 letting to show the Traffic Level for Friction Courses FC-9.5 and FC-12.5.

CONTACT

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TYPICAL SECTION
SR 80 (JACKSON STREET)
STA. 101+21.00 TO STA. 221+44.00

TRAFFIC DATA
CURRENT YEAR = 1998 AADT = 22500
ESTIMATED OPENING YEAR = 2000 AADT = 25000
ESTIMATED DESIGN YEAR = 2005 AADT = 30000
K = 650 C = 550 T = 15 CM MORT
DESIGN MILE = 12
DESIGN SPEED = 45 MPH

TRAFFIC DATA IS REQUIRED TO BE NOTED FOR CURRENT YEAR, OPENING YEAR AND DESIGN YEAR.

NEW CONSTRUCTION
OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C1) (12")
AND FRICTION COURSE FC-12.5 (TRAFFIC C1) (1/4") (RUBBER)

LIMITS OF CONSTRUCTION
STANDARD CLEARING AND GRUBBING

EXHIBIT TYP-6
Date: 1/1/01