ROADWAY DESIGN BULLETIN 18-04
(FHWA Approved: 4/18/18)

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TO: District Directors of Transportation Operations, District Directors of Transportation Development, District Design Engineers, District Construction Engineers, District Maintenance Engineers, District Consultant Project Manager Engineers, District Roadway Design Engineers, District Traffic Operations Engineers, District Program Management Engineers, District Materials Engineers

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SUBJECT: Pavement Maximum Cross Slope

This bulletin clarifies the Department’s policy on maximum allowable cross slope for high-speed roadways, including Limited Access (LA) Facilities.

REQUIREMENTS

Replace Figure 2.1.1 from Plans Preparation Manual (PPM) Volume 1, Chapter 2 with the figure shown on page 2 of this bulletin.

COMMENTARY

The maximum allowable cross slope shown in Figure 2.1.1 in the 2014 PPM was 4% for design speed ≤ 45 mph and 3% for > 45 mph. The hydroplaning bulletin released in May 2014 changed the note in Figure 2.1.1 to indicate that the maximum allowable cross slope is 4% for all design speeds. This note change was carried forward into the 2015, 2016, and 2017 editions of the PPM.

This bulletin corrects the note in Figure 2.1.1 to conform to the maximum allowable cross slopes on LA facilities; this criteria is currently reflected in the FDOT Design Manual (FDM).
Figure 2.1.1 Standard Pavement Cross Slopes

All Travel Lanes One Direction

(1) These sections show only the standard slopes for adjoining travel lanes; they do not prescribe needed lanes, lane usage or typical section requirements other than lane slope. These slopes are not applicable to parabolic crowns.

(2) Maximum pavement cross slopes for tangent sections are:
   (a) 0.04 for design speeds of 45 mph or less
   (b) 0.03 for design speeds greater than 45 mph; 0.035 may be used only for a 5-lane section sloped in one direction as shown above.

(3) The maximum change in cross slope between adjacent through lanes is 0.04.

(4) Slopes on multi-purpose lanes may be 0.03 to 0.05. Portions of multi-purpose lanes that are reserved for parking and access aisles for the physically disabled are to have cross slopes not exceeding 1:50 (0.02) in all directions.

(5) 4 or more lanes sloped in one direction (*) may be used with design speed 65 mph or less and longitudinal grades not exceeding 5%.
IMPLEMENTATION

The requirements of this bulletin are effective immediately.

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