

### **3.5M Cross-Slope**

#### **3.5.4M Cross-Slope Arrangements: Application Heuristics**

The TAC Subsection **3.5.4** is applicable to the Department's highways with the following elaboration:

The sheet-drainage cross-slope illustrated in Figure 3.5.2 above "four-lane divided with wide-depressed median (b)" is to be avoided wherever possible. The de-icing problem with this cross-section geometry makes it particularly disadvantageous in Manitoba's climate.

In the past, there have been occasions where sheet drainage has been employed on isolated sections of two-way, two-lane roadways. This is usually in urban areas where drainage options were limited. However, the Department's experience indicates that these sections usually develop as significant maintenance problem areas. Therefore, sheet drainage should be avoided unless there is no other alternative.