

DESIGN BULLETIN #23/2004 (Revised September 2007)

Slip-Formed Concrete Barrier F-Shape

**September 2007 Update to Design Bulletin #23/2004:
Drawings CB6-4.3M3-Rev 4 and CB6-4.3M3A-Rev 1**

Summary: The department currently has a typical drawing CB6-4.3M3, for an un-reinforced Full F-Shape concrete barrier constructed by slip-form. The need for a typical drawing for an un-reinforced Half F-Shape barrier constructed by slip-form has arisen on a recent project. A new typical drawing has been developed by the department and is being issued under this Design Bulletin. The slip-formed Half F-shape concrete barrier shall be used with earth fills as shown on drawing CB6-4.3M3A. The earth fill provides lateral support for the Half F-Shape concrete barrier.

This opportunity has also been used to fine-tune the current drawing CB6-4.3M3 - Slip-Formed Median Barrier F-Shape.

Key Changes

The following key changes have been made to the requirements for slip-formed concrete barrier F-Shape drawing:

- Where un-reinforced concrete barriers are used, the top width must be 300mm minimum to reduce the occurrence of shattering on vehicle impact. The dimension was previously shown for F barriers but was not stipulated for the Half F Shape slip formed barrier as there was no drawing for this.
- All concrete shall meet the requirements of the Specification for Bridge Construction Section 4, Class C, except that the slump shall be 20 +/- 10mm and minimum cement content shall be 335 kg/m³.

Implementation

The revised drawings in this Bulletin are to be implemented immediately unless the cost or timing does not allow such a change to be made on a specific project. The decision to revise or not will be made at the discretion of the Project Sponsor.

CB6-4.3M3 Rev. 4 Slip-Formed Median Barrier F-Shape

CB6-4.3M3A Rev. 1 Slip-Formed Concrete Barrier Half F-Shape

The above drawings have been added to the CB6 Manual on the department's website:

<http://www.transportation.alberta.ca/655.htm>

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