VOLUME 3   HIGHWAY STRUCTURES: INSPECTION AND MAINTENANCE
SECTION 4   ASSESSMENT

INTERIM ADVICE NOTE IA.4
THE ASSESSMENT OF CONCRETE HIGHWAY BRIDGES AND STRUCTURES

PART 14

BD 44/95

SUMMARY

This DMRB Interim Advice Note introduces technical amendments to BD 44/95 and includes corrections to typographical errors and omissions in the Standard.

INSTRUCTIONS FOR USE

1.   This IAN should be placed at Volume 3, Section 4, Part 14 after BD 44/95

2.   Annotate Index to Volume 3 to show IA.4.

3.   Annotate documents content page of Volume 3, Section 4, Part 14.

4.   Archive this sheet as appropriate.

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CONTENTS

1. INTRODUCTION

1.1   Appendix A of BD44 provides criteria for the assessment of concrete highway bridges and structures. It is based on BS5400: Part 4 and retains terminology and clause numbering of that document.

1.2   Since the issue of BD44/95, a few technical amendments have been made necessary to rectify typographical errors and omissions. These amendments are listed below and should be used forthwith on all assessments currently being undertaken. Structures which have already been assessed to BD44/95 should not be reassessed in the light of these amendments.

2. AMENDMENTS TO BD 44/95, APPENDIX A

2.1   The following amendments should be incorporated into BD 44/95, Appendix A.

Clause 5.3.2.3.   In Equation 3 delete the "0.66" term and replace with "0.6".
In the definition for d'_0, delete "d'_0" and replace with "d'".

Clause 5.3.3.2.   In the expression for ξ_s, delete "550" and replace with
"500".

Clause 5.3.4.4.   Delete Equation 10/11A, and substitute the following:

$$T_\upsilon = 2A_o \sqrt{\left\{\frac{\Sigma A_{sL}\,(f_{yL}/\gamma_{ms})}{2(x_1+y_1)}\right\}\left\{\frac{A_{st}\,(f_{yv}/\gamma_{ms})}{s_v}\right\}}$$

Delete definition for s_L.

Clause 5.8.6.4.   Add the following new clause:

Effective Perimeter of a bar or group of bars The effective perimeter of a single bar may be taken as 3.14 times its nominal size. The effective perimeter of a group of bars (see 5.8.3.1) shall be taken as the sum of the effective perimeters of the individual bars multiplied by (1.2-0.2N), where N (≤4) is the number of bars in the group.

Clause 7.4.2.3.   In the definition for f_s, after "otherwise f_s" add "shall be taken as a fraction of f_y in proportion to the ratio of the anchorage available to that required by 5.8.6; the value of f_s".