
CHAPTER 8

CONCRETE STRUCTURES AND FOUNDATIONS¹

FOREWORD

The material in this chapter is written with regard to typical North American Railroad Concrete Structures and Foundations and other selected structures and foundations.

- Nonbearing Walls.
- Typical Road Structures (paved and bridge supports) and
- Types of Bridge (up to 100 spans and girders) under spans through.

Additional special provisions for spans higher than those listed above may be added to the Chapter Appendices.

This chapter is presented in 2 volumes. Volume 1 is a practical compendium of railroad bridge construction being designed and constructed in accordance with design, estimating, and manufacturing Concrete Structures and Foundations used by railroads. The recommendations provided herein are based upon the experience of the members of the Association and cannot design and construction practices. These recommendations are intended for general use and might not provide sufficient details for unusually demanding conditions. Professional judgement must be exercised when applying the recommendations of this chapter as part of an overall solution to any particular case.

This chapter is published separately, incorporating no other parts of the previous code. The first published edition of this chapter should be used, regardless of the type of the existing structure. The progress of developing technical recommendations under which no existing structure was built from their publication, if any work needs to be done previous edition of the chapter. However, when technical recommendations differ from the recommendations contained in the more published edition of the chapter, the recommendations of the later published edition of the chapter should be used.

Part 8, Road (Type) Concrete Bridges, was deleted from the current code by 1975. Part 8, Reinforced Concrete Foundations was deleted from the current code by 1977. Part 11 is deemed to have been Part 11, Concrete Bridge Supports, was added to Chapter 11 in 1984.

¹ The scope of the separate chapters in this volume should be fully understood in relation to recommendations regarding construction practices and the supporting design recommendations. The design and construction practices and design recommendations are not intended to be a complete code of practice for the design and construction of concrete structures and foundations. The design and construction practices and design recommendations are not intended to be a complete code of practice for the design and construction of concrete structures and foundations. The design and construction practices and design recommendations are not intended to be a complete code of practice for the design and construction of concrete structures and foundations. The design and construction practices and design recommendations are not intended to be a complete code of practice for the design and construction of concrete structures and foundations.

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