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Prestressed concrete is a form of concrete used in construction. It is

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substantially "prestressed" during production, in a manner that strengthens it against tensile forces which will exist when in service.:  
3-5 This compression is produced by the tensioning



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of high-strength "tendons"  
located within or adjacent to  
the concrete and is done to  
improve the performance of  
the concrete in service.

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The superstructure design includes the following elements: deck design, prestressed girder design,

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and bearing pad design.  
Deck design follows the  
NMDOT standard deck slab  
detail in Chapter 4 of the  
NMDOT Bridge Procedures  
and Design Guide,  
hereinafter referred to as

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Design Guide. Girder  
analysis and design is  
performed using the  
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major advantages of  
Prestressed Concrete are:  
The prestressing of concrete  
by using high tensile steel  
improve the efficiency of the  
materials; The prestressing  
system works for a span

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greater than 35m.

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Analysis and design of RC  
members can be carried out

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by using linear or non-linear approaches. When applying safety factors, building codes normally propose linear approaches, but for some cases non-linear approaches. To see the examples of a



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non-linear numerical  
simulation and calculation  
visit the references:  
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Single pile design in accordance with ACI 318 (2014) Piles are long and slender members which transfer the loads from the superstructure to deeper soil or onto a rock with adequate

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bearing capacity. Materials used for piles may include wood, steel, and concrete.

[Reinforced Concrete Design to Eurocodes: Design Theory and ...](#)

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The concrete panels are designed in accordance with PCI Design Handbook- Precast and Prestressed Concrete (MNL-120), Design Responsibility for Architectural Precast

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Concrete Projects (ACI  
533.1R-02), and ACI 318  
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Code.

[Structural Design Software](#)



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Design of Prestressed  
Concrete by Arthur H. Nilson,  
2nd edition -1987;  
Reinforced Concrete Design  
by C. K. Wang and Charles G.  
Salmon 6th edition-1997;  
Building Design and

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Construction Handbook by  
Frederick S. Merritt and  
Jonathan t. Ricketts, 6th  
edition -2002; Foundation  
Analysis and Design, 4th  
edition by Joseph E. Bowles  
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universities, institutes and colleges. Reinforced concrete (RC) is a composite material in which concrete's relatively low tensile strength and ...

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(American Concrete  
Institute, ACI), James  
Rossberg (ASCE), Jason

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Krohn (Precast/Prestressed Concrete Institute, PCI), John Ruddy (AISC, formerly Structural Affiliates International, Inc.), and Morgan Hurley (SFPE) to provide guidance in defining

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the scope of the document,  
developing the working  
outline, and recommending  
appropriate chapter authors.

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Site offers MS Excel spreadsheets for structural engineering, such as continuous beam analysis, design of reinforced concrete columns, calculation of section properties including

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cable, AISC boltgroup and  
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for Structural Concrete (ACI  
318-11) and Commentary  
First Printing August 2011  
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[The Difference Between  
Curing and Drying Concrete](#)

Precast concrete (PC) plays an important role in the industrialization processes of buildings, so it is critical to

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study the seismic performance of such structures. Several experimental and numerical studies have been conducted to investigate the behavior of PC beam-to-column

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connections. However, most of the previous studies neglect the contribution of slabs.

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under design load. For

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