

# Concrete Bridges: Design And Construction

by A. C Liebenberg

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- Computational bridge layout and design. Analysis, design, and load rating for post-tensioned Well designed and constructed concrete bridges require only minimum maintenance to keep them in good working condition.
- Versatility. Concrete's versatility enables the cost-effective delivery of a wide range of structural forms and associated spans. Adequate pre-planning, precasting of elements and the use of appropriate technology in design and construction can make concrete the cheapest and fastest material for constructing durable, quality bridges. Techniques such as sliding, launching, jacking or modular construction make concrete bridge solutions quick and competitive.
- Sustainability. Prestressed concrete is a form of concrete used in construction. It is substantially "prestressed" (compressed) during its fabrication, in a manner that strengthens it against tensile forces which will exist when in service. This compression is produced by the tensioning of high-strength "tendons" located within or adjacent to the concrete and is done to improve the performance of the concrete in service. Tendons may consist of single wires, multi-wire strands or threaded bars that are most