

PCI Big Beam Scope

This section includes the scope of the Big Beam Theory must consider when designing the beam.

Task 1. Preliminary Research

Task 1.1 Three Stages of Design Prestressed Concrete Beam

Task 1.2 Preliminary Cross-Section Designs

Task 1.3 Preliminary Decision Matrix

Task 2. Preliminary Beam Design

Task 2.1 Initial Beam Designs

Task 2.2 Final Decision Matrix

Task 3. Final Design and Analysis

Task 3.1 Shear Design

Task 3.2 Reinforcement Design

Task 3.3 Cracking Load

Task 3.4 Max Load at Midspan

Task 4. Predictions

Task 4.1 Response 2000

Task 4.2 Prediction Calculations

Task 5. Shop Drawings

Task 5.1 AutoCAD

Task 5.1.1 Side Elevation

Task 5.1.2 Cross Section

Task 5.1.3 Profile View

Task 6. Casting of Beam

Task 7. Testing of Beam

Task 8. Project Management

Task 8.1 Reports

Task 8.2 Website

Task 8.3 Meetings

Task 9. Project Impacts