

## **7        STRUCTURAL        PRECAST        CONCRETE (SECTION 03411)**

### **7.1    Part 1    General**

#### **7.1.1    Related Documents**

Section 01300-Submittals

Section 01400-Quality Control

Section 01600-Materials and equipment

Section 01700-Contract Close out

Section 03200-Concrete Reinforcement

Section 03300-Cast-in-Place Concrete

#### **7.1.2    References**

ACI 301                Structural Concrete for Buildings.

ACI 318                Building Code Requirements for Structural Concrete.

PCI MNL-116        Manual for Quality Control for Plants and Production of Pre-cast and Pre-stressed Concrete Products.

PCI MNL-120        Design Handbook Pre-cast and Pre-stressed Concrete.

BS 5911                Concrete Pipes and Ancillary Concrete Products. Specification for unreinforced and reinforced concrete products

BS 8110-1            Structural Use of Concrete: Code of practice for design and construction

BS EN 13369        Common rules for pre-cast concrete products

#### **7.1.3    Design Requirements**

- A.    Design unit to withstand all loading such as service, wind, suction, deflection, and thermal movement loads and restraint conditions from initial fabrication to the completion of the structure, including form removal, storage, transportation, and erection.
- B.    Design system to accommodate construction tolerances, deflection of other building structural members and clearances of intended openings.
- C.    Design anchor bolts, inserts, plates, angles and other cast in items with sufficient anchorage and embedment to support applicable loads.