

Concrete Design

****Concrete shall be designed and constructed in accordance with the provision set forth in ACI 318.**

Concrete Strength

****The minimum compressive strength of concrete at 28 days shall be 3,000 psi with 51/2 bag mix.**

Continuous Concreting

****Once started, concreting shall be carried on as a continuous operation until the placement is complete.**

Conveying

****Concrete shall be conveyed from the mixer to the place of final deposit by methods that will prevent separation or loss of materials.**

Curing

****Concrete (other than high early strength) shall be maintained above 50° and in moist condition for at least the first 7 days after placement.**

Depositing

****Concrete shall be deposited as nearly as practicable in its final position to avoid segregation caused by re-handling or flowing.**

High Early Strength Concrete

****Shall be maintained above 50° and in moist condition for at least the first 3 days after placement.**

Re-tempering

****Re-tempered concrete or concrete that has been remixed after initial set shall not be used unless approved in writing by a registered design professional**

Unacceptable Concrete

****Concrete that has partially hardened or has been contaminated by foreign materials shall not be utilized.**

Cold Weather Guidelines

****Concrete (other than high early-strength) shall be maintained above 50° and in moist condition for the first 7 days after placement.**

****High early-strength concrete shall be maintained above 50° and in moist condition for the first 3 days after placement.**

****Forms and blankets shall remain in place until 50° maintenance requirement is achieved.**

****Accelerated curing may be used provided the curing process produces concrete with durability equivalent to the curing methods stated above.**

****Adequate equipment shall be provided for heating concrete materials and protecting concrete during freezing or near freezing temperatures. Tenting and heating shall be in place prior to concrete placement.**

****All concrete material and all reinforcing, forms, filler and ground with which concrete is to come in contact with shall be free from frost, ice or snow.**