

General Information

Concrete

All concrete shall be designed, transported, placed, finished and cured in accordance with American Concrete Institute (ACI) requirements. Components of the concrete mix shall meet applicable ANSI/ASTM requirements. Mix requirements and strength shall be specified by the Design Team for each item of construction. Limit the number of mix strengths specified as much as practical.

Concrete form work and reinforcing shall meet applicable ACI requirements and the Concrete Reinforcing Steel Institute (CRSI) along with associated ASTM requirements.

No welded wire fabric reinforcing is allowed except in topping slabs or unique situations as approved by the FPC Project Manager.

Curing compound manufacturer is to provide certification that their product is compatible with the finish flooring scheduled for the space.

The CM/GC is responsible for creating a BIM of the cast-in-place concrete building structure from which shop, fabrication, and as-built drawings shall be derived.

Porches and Steps

All stoops, porches, ramps, docks and steps, exterior and interior should have non-slip surfaces and nosings where applicable. Slope exterior porches and treads where allowed by Texas Accessibility Standards to drain water. Ponding of water in these areas is unacceptable.

Crawl Space Under Suspended Structural Foundations

Where a crawl space is included in the design provide a 2 inch thick, 2500 psi unreinforced mud slab, properly sloped and drained. (For further information see *General Information "Crawl Space Under Suspended Structural Foundations"*).

Roof Decks

The preferred material for flat roof decks is concrete. Where the roof is supported by a combination of structural steel, steel joists and steel deck, the topping shall be standard weight concrete.

The main slope for the roof shall be accomplished by the structural system. Only secondary slopes can be accomplished by the roof system.