

216-R-745 CELLULAR CONCRETE FILL, CCF

(Revised 10-20-22)

The Standard Specifications are revised as follows:

SECTION 216, BEGIN LINE 9, DELETE AND INSERT AS FOLLOWS:

216.02 Materials

Materials shall be in accordance with the following:

Cement.....	901.01(b)
Fly Ash	901.02
Foaming Agent.....	912.05
Water	913.01

An admixture in accordance with 912.03 may be used as recommended by the CCF manufacturer.

A foaming liquid concentrate in accordance with ASTM C796 agent shall be used to produce CCF with the CCF properties shown in accordance with 216.04. The foaming liquid concentrate agent shall be chosen from those shown on the QPL of CCF Manufacturers/Installers.

CONSTRUCTION REQUIREMENTS

216.03 Mix Design

A mix design prepared in accordance with the geotechnical report shall be submitted to the Engineer for approval at least five work days before the CCF operations begin. A cellular concrete manufacturer/installer shall be chosen from those shown on the QPL of CCF Manufacturers/Installers.

SECTION 216, BEGIN LINE 61, DELETE AND INSERT AS FOLLOWS:

216.08 Installation

CCF shall be proportioned, mixed, and placed in lifts as recommended by the manufacturer. Transit mixers will not be acceptable for mixing the CCF. *Three DCP tests for every 500 sq ft section will be performed. DCP testing will be in accordance with ITM 509.* The CCF shall not be subjected to load or disturbed by construction activities until a ~~minimum compressive strength of 25 psi has been achieved~~ the average DCP blow count from three tests on a section is at least 10 per 12 in. depth.

The final surface finish shall be within ±0.1 ft of the plan elevation.

216.09 Lots

Lots will be defined as 300500 cu yds of CCF placed. A partial lot equal to or less than 60 cu yds shall be included in the previous lot. A partial lot greater than 60 cu yds but less than 300500 cu yds will be considered a full lot.

SECTION 912, BEGIN LINE 199, INSERT AS FOLLOWS:

912.05 Foaming Agent

Foaming agents used in making preformed foam for cellular concrete fill and

cellular concrete grout shall be in accordance with ASTM C869. A type C certification in accordance with 916 shall be provided for the foaming agent.
