



*Florida Department of Transportation*

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JARED W. PERDUE, P.E.  
SECRETARY

September 12, 2022

Khoa Nguyen  
Director, Office of Technical Services  
Federal Highway Administration  
3500 Financial Plaza, Suite 400  
Tallahassee, Florida 32312

Re: State Specifications Office  
Section: **346**  
Proposed Specification: **3460202 Structural Portland Cement Concrete.**

Dear Mr. Nguyen:

We are submitting, for your approval, two copies of the above referenced Supplemental Specification.

The changes are proposed by Thomas Frank to remove the Moderate Heat (MH) designation for consistency with AASHTO M 85 in the Standard Specification.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via email to [daniel.strickland@dot.state.fl.us](mailto:daniel.strickland@dot.state.fl.us).

If you have any questions relating to this specification change, please call me at 850-414-4130.

Sincerely,

Signature on file

Daniel Strickland, P.E.  
State Specifications Engineer

DS/dh

Attachment

cc: Florida Transportation Builders' Assoc.  
State Construction Engineer

**STRUCTURAL PORTLAND CEMENT CONCRETE.**  
**(REV 6-23-22)**

SUBARTICLE 346-2.2 is deleted and the following substituted:

**346-2.2 Types of Cement:** Unless a specific type of cement is designated in the Contract Documents, use Type I, Type II, Type IP, Type IT, Type IS, Type II, ~~Type II-(MH)~~ or Type III cement in all classes of concrete. Use Type II, Type IT, or Type II-~~(MH)~~ for all mass concrete elements.

Use only the types of cements designated for each environmental classification in structural concrete as shown in Table 346-1. A mix design for a more aggressive environment may be used in a less aggressive environmental condition.

Table 346-1 Cement Use by Environmental Classification			
Component	Slightly Aggressive Environment	Moderately Aggressive Environment	Extremely Aggressive Environment <sup>(1)</sup>
Bridge Superstructures			
Precast Superstructure and Prestressed Elements	Type I or Type III	Type I, Type II, Type II, Type III, Type IP, or Type IS	Type II- <del>(MH)</del> , Type II, Type III <sup>(2)</sup> , Type IT or Ternary Blend
Cast in Place	Type I	Type I, Type II, Type II, Type IP, or Type IS	Type II- <del>(MH)</del> , Type II, Type IT or Ternary Blend
Bridge Substructures, Drainage Structures, and other Structures			
All Elements	Type I or Type III	Type I, Type II, Type II, Type IP, or Type IS	Type II- <del>(MH)</del> , Type II, Type IT or Ternary Blend
Notes:			
(1) Cements used in a more aggressive environment may also be used in a less aggressive environment.			
(2) Type III cement may be used in an Extremely Aggressive Environment for precast superstructure and prestressed elements when the ambient temperature at the time of concrete placement is 60°F and below.			

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Component	Slightly Aggressive Environment	Moderately Aggressive Environment	Extremely Aggressive Environment <sup>(1)</sup>
Bridge Superstructures			
Precast Superstructure and Prestressed Elements	Type I or Type III	Type I, Type II, Type II, Type III, Type IP, or Type IS	Type II, Type II, Type III <sup>(2)</sup> , Type IT or Ternary Blend
Cast in Place	Type I	Type I, Type II, Type II, Type IP, or Type IS	Type II, Type II, Type IT or Ternary Blend
Bridge Substructures, Drainage Structures, and other Structures			
All Elements	Type I or Type III	Type I, Type II, Type II, Type IP, or Type IS	Type II, Type II, Type IT or Ternary Blend

Notes:

(1) Cements used in a more aggressive environment may also be used in a less aggressive environment.

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