



Florida Department of Transportation

RON DESANTIS
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JARED W. PERDUE, P.E.
SECRETARY

September 6, 2024

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

Re: State Specifications Office
Section: 455
Proposed Specification: **4550710 Structure Foundations**

Dear Ms. Kendall:

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

The changes are proposed by Ben Goldsberry to require the exposed ends of carbon steel strands and reinforcing bars in concrete piles to be coated with epoxy.

Please review and transmit your comments, if any, within two weeks (10 business days). Comments should be sent via email 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/jb

Attachment

cc: Florida Transportation Builders' Assoc.
State Construction Engineer

STRUCTURES FOUNDATIONS

(REV 6-20-24)

ARTICLE 455-7 is expanded by the following:

455-7.10 Protecting Tops of Concrete Piles: Protect the exposed carbon steel strands and reinforcing bars at the top surface of each concrete pile with epoxy when all the following conditions apply:

1. The General Notes in the Plans classify the substructure environment as extremely aggressive due to chlorides,

2. The piles are not enclosed by a cofferdam or water-tight form maintaining a dry condition between the time the pile is cut off and when the pile top is encased in concrete,

3. The top of the piles after cut-off are within 6 feet of the mean high water elevation listed in the Plans.

After pile cut off is performed, the epoxy must be applied before the water level of the next high tide or flood event reaches the top of the pile. Use an epoxy meeting the requirements of 926-1, Type K. In accordance with the epoxy manufacturer's recommendations, prepare the surface of the top of the pile, and apply the epoxy to each exposed strand and bar. Apply the epoxy to each bar and strand such that its limits extend a minimum of 1 inch past the edge of the strand or bar.

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