



*Florida Department of Transportation*

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GOVERNOR

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JARED W. PERDUE, P.E.  
SECRETARY

October 5, 2022

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

Re: State Specifications Office  
Section: **105**  
Proposed Specification: **1050404 Contractor Quality Control General Requirements.**

Dear Mr. Nguyen:

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

The changes are proposed by Tim Counts to include Sections 2.4 and 3.5 of the Materials Manual Volume II and updated the language to be consistent with recent changes to CTQM Chapter 4.

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

## CONTRACTOR QUALITY CONTROL GENERAL REQUIREMENTS (REV 10-1-22)

SUBARTICLE 105-4.4 is deleted and the following substituted:

### **105-4.4 Compliance with the Materials Manual:**

Producers of Polymer Slurry shall meet the requirements of Section 2.4, Volume II of the Department's Materials Manual, which may be viewed at the following URL:  
<https://www.fdot.gov/programmanagement/implemented/URLinSpecs/Section24V2.shtm>.

Producers of Asphalt Binder shall meet the requirements of Section 3.5, Volume II of the Department's Materials Manual, which may be viewed at the following URL:  
<https://www.fdot.gov/programmanagement/implemented/URLinspecs/Section35V2.shtm>.

Producers of Flexible Pipe shall meet the requirements of Section 6.1, Volume II of the Department's Materials Manual, which may be viewed at the following URL:  
<https://www.fdot.gov/programmanagement/Implemented/URLinSpecs/Section61V2.shtm>.

Producers of Precast Concrete Pipe shall meet the requirements of Section 6.2, Volume II of the Department's Materials Manual, which may be viewed at the following URL:  
<https://www.fdot.gov/programmanagement/Implemented/URLinSpecs/Section62V2.shtm>.

Producers of Precast Concrete Drainage Structures shall meet the requirements of Section 6.3, Volume II of the Department's Materials Manual, which may be viewed at the following URL:  
<https://www.fdot.gov/programmanagement/Implemented/URLinSpecs/Section63V2.shtm>.

Producers of Precast Prestressed Concrete Products shall meet the requirements of Sections 8.1 and 8.3, Volume II of the Department's Materials Manual, which may be viewed at the following URLs:  
<https://www.fdot.gov/programmanagement/Implemented/URLinSpecs/Section81V2.shtm>.  
<https://www.fdot.gov/programmanagement/Implemented/URLinSpecs/Section83V2.shtm>.

Producers of Precast Prestressed Concrete Products using Self Consolidating Concrete shall meet the requirements of Section 8.4, Volume II of the Department's Materials Manual, which may be viewed at the following URL:  
<https://www.fdot.gov/programmanagement/Implemented/URLinSpecs/Section84V2.shtm>.

Producers of Precast/Prestressed Concrete Products using Flowing Concrete shall meet the requirements of Section 8.6, Volume II of the Department's Materials Manual, which may be viewed at the following URL:  
<https://www.fdot.gov/programmanagement/Implemented/URLinSpecs/Section86V2.shtm>.

Producers of Incidental Precast/Prestressed Concrete Products shall meet the requirements of Section 8.2, Volume II of the Department's Materials Manual, which may be viewed at the following URL:  
<https://www.fdot.gov/programmanagement/Implemented/URLinSpecs/Section82V2.shtm>.

Producers of Portland Cement Concrete shall meet the requirements of Section 9.2, Volume II of the Department's Materials Manual, which may be viewed at the following URL:  
<https://www.fdot.gov/programmanagement/Implemented/URLinSpecs/Section92V2.shtm>.

Producers of Paving Concrete produced by Central Mix Plants shall meet the requirements of Section 9.3, Volume II of the Department's Materials Manual, which may be viewed at the following URL:  
<https://www.fdot.gov/programmanagement/Implemented/URLinSpecs/Section93V2.shtm>.

Specialty Engineers preparing, submitting, and implementing Mass Concrete Control Plans shall meet the requirements of Section 9.4 Volume II of the Department's Materials Manual, which may be viewed at the following URL:

<https://www.fdot.gov/programmanagement/Implemented/URLinSpecs/Section94V2.shtm>.

Producers of Structural Steel and Miscellaneous Metal Components shall meet the requirements of Sections 11.1, 11.2, 11.3, 11.4, 11.5 and 11.6 of the Department's Materials Manual, which may be viewed at the following URLs:

<https://www.fdot.gov/programmanagement/Implemented/URLinSpecs/Section111V2.shtm>.

<https://www.fdot.gov/programmanagement/Implemented/URLinSpecs/Section112V2.shtm>.

<https://www.fdot.gov/programmanagement/Implemented/URLinSpecs/Section113V2.shtm>.

<https://www.fdot.gov/programmanagement/Implemented/URLinSpecs/Section114V2.shtm>.

<https://www.fdot.gov/programmanagement/Implemented/URLinSpecs/Section115V2.shtm>.

<https://www.fdot.gov/programmanagement/Implemented/URLinSpecs/Section116V2.shtm>.

Producers of Fiber Reinforced Polymer Composites shall meet the requirements of Section 12-1, Volume II of the Department's Materials Manual, which may be viewed at the following URL:

<https://www.fdot.gov/programmanagement/Implemented/URLinSpecs/Section121V2.shtm>.

SUBARTICLE 105-8.7.3 is deleted and the following substituted:

**105-8.7.3 Qualified Testing Technicians:** Ensure that the testing technicians have the following certifications, as appropriate:

1. ACI Concrete Field Testing Technician Grade I, for personnel performing concrete plastic property tests and ACI Self-Consolidating Concrete Testing Technician if testing self-consolidating concrete (SCC).

2. ACI Concrete Strength Testing Technician, for personnel performing tests on hardened properties of concrete.

SUBARTICLE 105-8.8 is deleted and the following substituted:

**105-8.8 Prestressed Concrete Plant Quality Control (QC) Personnel:** Obtain personnel certifications from Department accredited training providers. The list of Department approved courses and their accredited providers is available on the SMO website at the following URL: <https://www.fdot.gov/materials/administration/resources/training/structural/concrete-prestressed.shtm>.

Ensure each prestressed concrete plant has an onsite production manager, an onsite plant QC manager, a plant engineer, and adequate onsite ~~QC inspectors/technicians~~ **QC testing personnel** to provide complete QC inspections and testing.

**105-8.8.1 Plant QC Manager:** Ensure the plant **QC** manager ~~for QC~~ has at least five years of related experience and the following certifications:

1. ACI Concrete Field Testing Technician Grade I certification.

2. PCI QC Personnel Certification Level III.

3. **CTQP Prestressed Concrete Field Inspector/Technician certificate.** ~~Certificate of completion of Section 450 Specification examination~~

**105-8.8.2 QC Inspector/Technician:** Ensure that the QC inspector/technician has the following certifications:

1. ACI Concrete Field Testing Technician Grade I certification.

2. PCI QC Personnel Certification Level II.

3. CTQP Prestressed Concrete Field Inspector/Technician certificate~~Certificate of completion of Section 450 Specification examination.~~

**105-8.8.3 QC Concrete Central Mix Testing Technician:**~~4 Additional Requirements for Quality Control (QC) Personnel of Prestressed Manufacturing Facilities:~~

~~105-8.8.1.1 Testing Personnel:~~ Ensure that QC testing personnel technicians meet the requirement of 105-8.7.3.

~~105-8.8.4.2 Batch Plant Operator:~~ Ensure that the batch plant operator meets the requirement of 105-8.7.4.

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**105-8.8.2 QC Inspector/Technician:** Ensure that the QC inspector/technician has the following certifications:

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2. PCI QC Personnel Certification Level II.
3. CTQP Prestressed Concrete Field Inspector/Technician certificate.

**105-8.8.3 QC Concrete Central Mix Testing Technician:** Ensure that QC testing personnel meet the requirement of 105-8.7.3.

**105-8.8.4 Batch Plant Operator:** Ensure that the batch plant operator meets the requirement of 105-8.7.4.