

ORIGINATION FORM

Date: **11/22/2013**

Originator: **Juan Castellanos**

Contact Information: **Juan Castellanos 850-414-4276**

Specification Title: **Structures Foundations**

Specification Section, Article, or Subarticle Number: **455-15.8.3**

Why does the existing language need to be changed? **To avoid misinterpretation that density tests are not required when natural slurry or water is used as a fluid during the excavation of drilled shafts.**

Summary of the changes: **In sub-article 455-15.8.3 improve language to indicate that the Engineer will not require pH testing or viscosity testing, or require that the minimum density of slurry specified in 455-15.8.1 be met.**

Are these changes applicable to all Department jobs? **Yes**
If not, what are the restrictions?

Will these changes result in an increase or decrease in project costs? **No**
If yes, what is the estimated change in costs?

With who have you discussed these changes? **Rudy Powell, Dave Horhota, Sam Weede**

What other offices will be impacted by these changes? **None**

Are changes needed to the PPM, Design Standards, SDG, CPAM or other manual? **No**

Is a Design Bulletin, Construction Memo, or Estimates Bulletin needed? **No**

Contact the State Specifications Office for assistance in completing this form.

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ANANTH PRASAD, P.E.
SECRETARY

MEMORANDUM

DATE: December 17, 2013
TO: Specification Review Distribution List
FROM: Daniel Scheer, P.E., State Specifications Engineer
SUBJECT: Proposed Specification: **4551508 Structures Foundations.**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by Juan Castellanos of the State Construction Office to clarify the language related to certain testing when slurry has not used in shaft excavation.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at SP965DS, or daniel.scheer@dot.state.fl.us. Comments received after **January 15, 2014**, may not be considered. Your input is encouraged.

DS/dt
Attachment

STRUCTURES FOUNDATIONS.
(REV 11-25-13)

SUBARTICLE 455-15.8.3 is deleted and the following substituted:

455-15.8.3 Fluid In Excavation At Time Of Concrete Placement: When any fluid is present in any drilled shaft excavation, including shafts to support miscellaneous structures, the applicable test methods and reporting requirements described in 455-15.8.1 apply to tests of fluid in the shaft prior to placing the concrete.

Take samples of the fluid in the shaft from within 1 inch of the base of the shaft and at intervals not exceeding 30 feet up the shaft, using an approved sampling tool designed to sample over a depth range of 12 inches or less. Take whatever action is necessary prior to placing the concrete to bring the fluid within the specification and reporting requirements, outlined in the tables in 455-15.8.1, except as follows:

The Engineer will not require tests for pH, *or* viscosity, *nor require the fluid to meet the* minimum density *specified in 455-15.8.1* when slurry has not been introduced into the shaft excavation.

When using polymer slurry to support the excavation for drilled shafts installed to support mast arms, cantilever signs, overhead truss signs, high mast light poles or other miscellaneous structures, take whatever action is necessary prior to placing the concrete to bring the properties of the fluid within the ranges in 455-15.8.2.

Provide a CTQP qualified drilled shaft inspector to perform testing. The Department may also perform comparison tests. Provide equipment for such comparison tests when requested by the Engineer.