

ORIGINATION FORM

Date: **10-13-13**

Originator: **Juan Castellanos**

Contact Information: **414-4276**

Specification Title: **Structures Foundations (Design Build)**

Specification Section, Article, or Subarticle Number: **4550513-DB, 4550517-DB, 4550517-DB, 4554400-DB for Design Build projects-Foundation Certification Packages**

Why does the existing language need to be changed? **To have changes already included in the Standard Specifications also included in the DB special provisions, and to clarify the pile inspection and recording activities.**

Summary of the changes: **Allowing instrumented redrives to count as dynamic tests on steel piles, allow fluid sampling on drilled shafts every 30 ft from the bottom, prohibit the use of mechanical impact or force to install the reinforcing cage in auger cast piles. In addition indicate the minimum inspection items that must be inspected and recorded on the pile driving records.**

Are these changes applicable to all Department jobs? **No.**

If not, what are the restrictions? **Design Build only.**

Will these changes result in an increase or decrease in project costs? **N/A**

If yes, what is the estimated change in costs?

With who have you discussed these changes? **Rudy Powell**

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.

Daniel Scheer 850-414-4130 daniel.scheer@dot.state.fl.us

Frances Thomas 850-414-4101 frances.thomas@dot.state.fl.us

Debbie Toole 850-414-4114 deborah.toole@dot.state.fl.us

Andy Harper 850-414-4127 clifton.harper@dot.state.fl.us

Ray Haverty 850-414-4129 ray.haverty@dot.state.fl.us



Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

ANANTH PRASAD, P.E.
SECRETARY

MEMORANDUM

DATE: October 30, 2013
TO: Specification Review Distribution List
FROM: Daniel Scheer, P.E., State Specifications Engineer
SUBJECT: Proposed Specification: **4550517DB 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 update the DB specifications for consistency with the Standard Specifications and to clarify pile inspection and recording activities.

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 **November 27, 2013**, may not be considered. Your input is encouraged.

DS/dt
Attachment

STRUCTURES FOUNDATIONS.**(REV 10-18-13)**

SUBARTICLE 455-5.17 is deleted and the following substituted:

455-5.17 Recording: Inspect and record all the pile *installation activities, including but not limited to jetting, predrilling, preforming and driving* ~~driving information~~ on the Department's Pile Driving Record form. Keep a pile driving log for each pile installed whether it is, or is not, instrumented. Within one working day after completing the installation of a pile, submit the Pile Driving Record to the Engineer.

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 ~~1~~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, viscosity or minimum density 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.