

4550701 STRUCTURES FOUNDATIONS
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Comments: (5-10-18)

SUBARTICLE 455-7.1 Refer to Design Standards, Index 22600 Standard Plans, Index 455-001. ... provide minimal splices (add "...as provided for in Design Standards, Index 20601".)

SUBARTICLE 455-11.10 No payment for extraction will be made for piles shown in the Plans to be extracted (add "...which are not extracted..." SUBARTICLE 455-30 Standard Plans, Index 120-001. I have never heard of this reference before, Standard Plans, Index 120-001. What is it referencing? It appears to be referencing the Specifications Section 120 but I am unaware of a 120-001. It also appears to be referencing the Design Standards. Please clarify.

Response:

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Comments: (5-11-18)

1. Section 455-15.8.3 proposes to show "Do not mixed in the excavation as a means to initially prepare slurry; adjustments to slurry can be made in the excavation as needed." Suggest to replace the phrase "adjustments to slurry" with "adjustments to slurry properties" which is probably the intent of the proposed change and not allowing too many other ways of interpreting the word "adjustments".

Response:

2. Section 455-15.11.1 Item 1 currently does not provide any change. However, in the Design-Build Specification version, it is noted that there is a sentence showing "Verify that the bottom of the hole is level." Should this sentence also be included in the 455 Specification for conventional project?

Response:

3. Section 455-15.11.1 currently proposes 3 methods of checking the dimension and alignment of drilled shafts. It is noted that in the proposed changes of 455 Specification for Design-Build projects there are 4 methods. The use of an acceptable caliper system is not currently included in the 455 Specification for conventional projects. Please check if they should be consistent.

Response:

4. 455-17.6.1.2 includes a table listed minimum and maximum time for TITDS. There is a note at the bottom of the table stating "When retarders are used to slow the onset of hydration, add the

retardation time to the testing times indicated.” Class IV (Drilled Shaft) mix always have retarders, so it is not an issue of “when” (please confirm with FDOT concrete engineers). Also, it is unclear how to determine the onset of hydration time for all the drilled shaft mixes. Suggest to coordinate with the FDOT concrete engineers to establish a way to show the onset hydration time on the concrete mix design information sheets (similar to slump loss time). Otherwise, this may be a practical issue in construction.

Response:

5. 455-41, first sentence shows “Use a cement mix consisting of...” It is noted that the 455 Specification for Design-Build project shows “cement grout mix” instead of “cement mix”. Suggest to show “cement grout mix” to be consistent.

Response:
